# 2002 Key Dates

<table>
<thead>
<tr>
<th>Session Dates:</th>
<th>First (Autumn) Session</th>
<th>Second (Spring) Session</th>
<th>Summer Session 2002/2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation Week</td>
<td>25 Feb - 1 March</td>
<td>17 - 19 July</td>
<td>9 December</td>
</tr>
<tr>
<td>First Day of Session</td>
<td>4 March</td>
<td>22 July</td>
<td></td>
</tr>
<tr>
<td>Mid-Session Recess</td>
<td>29 March - 7 April</td>
<td>23 Sept - 6 Oct</td>
<td>23 Dec - 5 Jan 2003</td>
</tr>
<tr>
<td>End of Session</td>
<td>7 June</td>
<td>1 November</td>
<td>7 February 2003</td>
</tr>
<tr>
<td>Study Recess</td>
<td>8 - 14 June</td>
<td>2 - 8 November</td>
<td>8 - 16 Feb 2003</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enrolment:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day for re-enrolment</td>
<td>27 January</td>
<td>21 July</td>
<td></td>
</tr>
<tr>
<td>New undergraduates</td>
<td>28 Jan - 1 Feb</td>
<td>16-17 July</td>
<td></td>
</tr>
<tr>
<td>Last day for late re-enrolment</td>
<td>17 March</td>
<td>4 August</td>
<td></td>
</tr>
<tr>
<td>Last day to add subject</td>
<td>17 March</td>
<td>4 August</td>
<td>15 December</td>
</tr>
<tr>
<td>Academic Adviser &amp; Head</td>
<td>29 March</td>
<td>16 August</td>
<td>20 December</td>
</tr>
<tr>
<td>Department</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Withdrawal:                    |                        |                         |                          |
| Last day to withdraw from       | 31 March               | 31 August               | 20 December              |
| single session subjects         |                        |                         |                          |
| without financial penalty       |                        |                         |                          |
| (HECS refunded/International    |                        |                         |                          |
| Student Fees credited           |                        |                         |                          |
| if withdrawn by:                |                        |                         |                          |
| Last day to withdraw from       | 31 March (full         | 31 August (spring       |                          |
| double session subjects         | refund)                | session only)            |                          |
| without financial penalty       |                        |                         |                          |
| (HECS refunded/International     |                        |                         |                          |
| Student Fees credited           |                        |                         |                          |
| if withdrawn by:                |                        |                         |                          |
| Last day to withdraw from       | 5 May                  | 15 September            | 12 January 2003          |
| single session subjects         |                        |                         |                          |
| without academic penalty        |                        |                         |                          |
| – subject deleted from record.  |                        |                         |                          |
| (Fail grade recorded if subject |                        |                         |                          |
| withdrawn after this date).     |                        |                         |                          |
| Last day to withdraw from       | 4 August               |                        |                          |
| double session subjects         |                        |                         |                          |
| without academic penalty        |                        |                         |                          |
| – subject deleted from record.  |                        |                         |                          |
| (Fail grade recorded if subject |                        |                         |                          |
| withdrawn after this date).     |                        |                         |                          |

| Examinations:                  |                        |                         |                          |
| Release of Results             | 9 July                 | 3 December              | tba                      |

| Charges:                       |                        |                         |                          |
| Last day for payment of        | 3 March                | 21 July                 | 8 December 2002          |
| compulsory charges             |                        |                         |                          |
| by re-enrolling students       |                        |                         |                          |
| Late date to nominate          | 31 March               | 31 August               | 20 December 2002         |
| full up-front payment of HECS  |                        |                         |                          |
| Due Date for Up-front          | 3 March                | 21 July                 | 8 December 2002          |
| HECS, Postgraduate Tuition Fees|                        |                         |                          |
| Due date for payment of        | 3 March                | 21 July                 | 8 December 2002          |
| International Student Tuition  |                        |                         |                          |
| Fees                          | 31 March               | 31 August               | 20 December              |
| Census Date                    | 29 July & 1, 2 & 5     | 12, 13, 16, 17 & 18     |
| August                        |                        | December                |

**Note:** Some courses, particularly Graduate School of Business & Professional Development courses, have different session commencement and recess dates and withdrawal dates. Late commencement in these courses may not be permitted.
UNDERGRADUATE CALENDAR
2002
There are two volumes of the Calendar:

- Undergraduate Calendar 2002
- Postgraduate Calendar 2002

Information in this publication was prepared as at 7 November 2001 and is subject to amendment without notice by the University.

Students are advised to consult the University's On-Line Calendar at the time of application/enrolment to obtain any later information which may become available in respect of material contained in this Calendar. The Web address is: www.uow.edu.au/student/calendar/

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2002 Session Dates

Summer Session: 3 December 2001 - 17 February 2002
Lectures Commence .................................. 3 December - 16 December
Mid-Session Recess ................................... 17 December - 1 January
Lectures Recommence .................................. 2 January - 3 February
Study Recess ............................................. 4 - 10 February
Examinations ............................................. 11 February - 17 February

Autumn Session: 4 March - 28 June 2002
Orientation Week ...................................... 25 February - 1 March
Lectures Commence .................................... 4 March - 28 March
Mid-Session Recess .................................... 29 March - 7 April
Lectures Recommence .................................. 8 April - 7 June
Study Recess ............................................. 8 - 14 June
Examinations ............................................. 15 - 28 June
Mid Year Recess ........................................ 29 June - 21 July

Spring Session: 22 July - 22 November 2002
Lectures Commence .................................... 22 July - 20 September
Mid-Session Recess .................................... 21 September - 6 October
Lectures Recommence .................................. 7 October - 1 November
Study Recess ............................................. 2 - 8 November
Examinations ............................................. 9 - 22 November

Summer Session: 9 December 2002 - 21 February 2003*
Lectures Commence .................................... 9 December - 20 December
Mid-Session Recess .................................... 21 December - 5 January
Lectures Recommence .................................. 6 January - 7 February
Study Recess ............................................. 8 - 16 February
Examinations ............................................. 17 - 21 February

*The Academic Calendar for 2003 is currently under review. Students should consult the following web page prior to the commencement of Summer session 2002/2003 for up-to-date information:
Part 1 - General Information

The University in Brief

In 2001 the University of Wollongong celebrated the 50th anniversary of a university presence in Wollongong. The University had its foundation in 1951 when the New South Wales University of Technology established a Division at Wollongong. That Division later became a College of the University of New South Wales and, in 1975, the University of Wollongong was established as an autonomous institution. Since its independence, and later its amalgamation with the adjoining Wollongong Institute of Education in 1982, the University has grown to be an internationally recognised teaching and research institution. Its prominence in research, especially in developing research and industry partnerships, was acknowledged when the University jointly won the prestigious Australian University of the Year Award for 1999-2000. In an unprecedented achievement, the University was again proclaimed joint Australian University of the Year for 2000-2001 for its success in preparing graduates for an e-world. A significant award, enhancing the career prospects of our 13,000 students from Australia and more than 70 overseas countries.

The University has three campuses: the main Wollongong Campus, the Shoalhaven Campus at Nowra and the Dubai Campus in the United Arab Emirates (UAE). In addition, there are access centres in Sydney, Batemans Bay, Bega, Moss Vale and Southern Sydney.

The Dubai Campus

The Dubai Campus of the University of Wollongong was established in 1993 and is fully governed by the Council of the main campus in Wollongong. The University is the first Western university to gain a licence from the Ministry of Higher Education and Scientific Research in the UAE. All courses taught in Dubai are designed, approved and accredited by the main Campus, which also exercise full quality assurance over all assessment conducted in Dubai. These procedures ensure that graduates are validly receiving a quality Australian education, which will be recognised internationally.

The University Act & By-Law

The University of Wollongong is established under an Act of the New South Wales Parliament. The Act, the By-Law and the Rules (made under the Act) govern the management of the University and the conduct and obligations of its members. A copy of the Act and By-Law is available on the web at


Admission


To be considered for admission to the University for an undergraduate course leading to a degree, you must:

a) be eligible for admission to the University (see 2. below); and

b) have lodged an application for admission to the University (see 4. Application for Admission); and

c) have satisfied any additional selection criteria for the course; and

d) have been selected for the course.

A candidate admitted to a course must abide by the University Course Rules, which are printed below.

2. Am I Eligible for Admission?

Admission requirements are the minimum qualifications that you must have before you can enter a course.

You may meet the admission requirements for the University of Wollongong if you satisfy one of the following:

1) completion of an Australian Year 12 examination attaining the required UAI (NSW) or TER (Vic, SA & NT) or TES (Tas & WA) or OP (Q’d) as determined by the University Council and meeting any additional selection criteria;

2) completion of a limited UAI. Applicants who are at least 21 years of age on 1 March in the year of admission, attempting at one sitting 5 to 9 units of Group A subjects in the NSW HSC may be considered for admission on the basis of an awarded limited Universities Admission Index;

3) have obtained an acceptable level of achievement in an approved secondary qualification (at least 12 years schooling) from an overseas institution;

4) have obtained an acceptable level of achievement in the University of Wollongong Aboriginal & Torres Strait Islander Entry Program;

5) have obtained an acceptable level of achievement in the Wollongong University College Advanced Diploma, or Foundation Studies program (AQF Certificate IV), or University Access Program;

6) have obtained an acceptable level of achievement in the Tertiary Preparation Certificate at TAFE;

7) completion, at an acceptable level of achievement, of a TAFE Advanced Certificate, or an AQF Level IV Certificate, or Associate Diploma, or Diploma or Advanced Diploma, or

8) completion of the Special Tertiary Admissions Test, Multiple Choice version, at an acceptable level of achievement. The test is conducted by UAC for applicants who are at least 21 years of age on 1 March
in the year of admission; however the STAT cannot be used for admission to Law or Engineering degrees.

9) other acceptable means as decided by the University.

Eligibility based on the NSW Higher School Certificate

a) achievement in the HSC shall be measured by the Universities Admission Index (UAI);
b) only Board Developed courses are used in the calculation of the UAI;
c) the UAI will be based on an aggregate of scaled marks in ten units of Board Developed courses comprising:

- your best 2 units of English;
- your best 8 units chosen from your remaining units;
d) for the purpose of calculation of the UAI, no more than 2 units will be included from Category B subjects.

3. Limitations

Council may limit:

a) the number of applicants to be granted admission via any of the provisions in Rule 2; and
b) the number of places available in any undergraduate course or subject.

4. Application for Admission

1) a) All current HSC candidates (or interstate equivalent) must lodge their applications for admission with the Universities Admissions Centre (UAC) by 28 September 2001.

On-time applications attract no fee but late applications (up to 6 February) incur a fee.

UAC will NOT accept applications after 6 February 2002.
b) Any current HSC candidate (or interstate equivalent) who has NOT lodged a UAC application by 6 February 2002 may apply directly to the University of Wollongong via UniAdvice 1300 367 869 or uniadvice@uow.edu.au

2) Australian students NOT currently taking Year 12 examinations may apply directly to the University of Wollongong via UniAdvice 1300 367 869 or uniadvice@uow.edu.au

3) International students sitting an Australian Year 12 examination in Australia or the International Baccalaureate in Australia in 2001 must apply through UAC.

4) All other International students may apply directly to the University of Wollongong via UniAdvice 1300 367 869 or uniadvice@uow.edu.au

5. Special Tertiary Admissions Test (STAT)

You may apply for admission to the University on the basis of the STAT if you are at least 21 years of age by 1 March in the year of admission (for all courses except Law, see below).

The Special Tertiary Admissions Test (STAT) is conducted annually and is coordinated by the Universities Admissions Centre (UAC). The current fee is $71.50. Contact UAC for further details on (02) 93307200.

The STAT is designed to assess a range of competencies commonly considered important for success in tertiary study. It is a two-hour multiple-choice test designed to test the applicant's ability to comprehend, interpret, analyse and make inferences from a variety of material provided. The test questions are grouped in units based on stimulus material presented in a variety of forms, for example: passages of writing; graphical displays of information; diagrams. Any specific information required to answer the questions is contained in the stimulus material.

Applying for the 4 year Law degree through the STAT

You must be at least 25 years of age by 31 January in the year of admission and, in addition to obtaining a certain standard in the STAT, will be required to attempt the Australian Law Schools Entrance Test (ALSET).

6. Wollongong University College

Wollongong University College, the private college of the University of Wollongong, located on campus, provides advanced diploma courses and university entrance programs. These programs have been developed in consultation with the University of Wollongong and are available to both permanent Australian residents and international students who meet entry requirements.

Students who successfully complete a diploma course and meet specific University entrance requirements will be eligible for entry into bachelor degrees at the University of Wollongong. By completing a university entrance program to a certain standard, students are guaranteed a place in one of the bachelor degrees at the University of Wollongong and may be eligible to apply for bachelor degrees offered at 33 Australian universities and 10 international universities.

Further information is available from:

UniAdvice
University of Wollongong
NSW 2521 AUSTRALIA
Tel: +61 +2 4221 3218
Fax: +61 +2 4221 3233

7. Prerequisites

Admission to the University does not automatically mean admission to a particular subject. Applicants must have the required pre-requisites before they can enrol in certain subjects. A list of 100-level subjects which require NSW HSC pre-requisites is available from the University on request.
Financial Information

Student Charges
According to Government regulations, students, both undergraduate and postgraduate, are required to meet the following charges where applicable:

1. Penalty charges such as late charges, parking fines, etc.
2. Administrative charges such as 'statement of record' charges, 'review of result' charges, application fee to amend an academic record, or charges for examinations requiring special arrangements.
3. Cost of travel incurred by students attending practical work for courses in social work, teacher training, etc.
4. Cost of travel incurred by external students attending residential schools.
5. Accommodation charges and cost of subsistence on excursions, field work, etc.
6. Charges for special clothing or laundry costs.
7. Purchase of instruments or equipment.
8. Cost of handbooks and notes.
9. Charges associated with the development and operation of unions, student associations, students' representative councils and other student activities.
10. Deposits and refundable charges.

Compulsory Service Charges
In 2002, all students will be required to pay the charges listed below (GST is included).

Entrance Charges at First Enrolment *(inclusive of GST)*

<table>
<thead>
<tr>
<th>Service</th>
<th>Wollongong UniCentre</th>
<th>Recreation &amp; Aquatic Centre</th>
<th>Student Association (SRC or WUPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wollongong UniCentre</td>
<td>39.70</td>
<td>27.50</td>
<td></td>
</tr>
<tr>
<td>Recreation &amp; Aquatic Centre</td>
<td></td>
<td></td>
<td>6.60</td>
</tr>
</tbody>
</table>

Annual Subscriptions *(inclusive of GST)*

<table>
<thead>
<tr>
<th>Service</th>
<th>Wollongong Campus ($)</th>
<th>Shoalhaven Campus ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wollongong UniCentre</td>
<td>206.60</td>
<td>103.30</td>
</tr>
<tr>
<td>Recreation &amp; Aquatic Centre</td>
<td>106.00</td>
<td>53.00</td>
</tr>
<tr>
<td>Students' Representative Council</td>
<td>48.40</td>
<td>24.20</td>
</tr>
<tr>
<td>Wollongong University</td>
<td>53.90</td>
<td>26.95</td>
</tr>
</tbody>
</table>

Total annual charges (excluding entrance charges)

- Undergraduate: 361.00 180.50
- Postgraduate: 366.50 183.25

Students studying at University Education and Access Centres are required to pay an amount equivalent to the Student Association fee (current at enrolment).

Conscientious Objection
While the University Council endorses the principle of universal membership of student organisations, the University has established a procedure for students seeking exemption from membership on the basis of genuine conscientious objection. It is important to note that conscientious objectors will still be required to pay the relevant fee, which will be directed towards the Dean of Students' equity awards, established to help students experiencing genuine financial difficulty which impacts on their studies. Please contact the Dean of Students' Office for further information (4221 4355).

Exemptions
Exemption from payment of fees will be granted in certain circumstances:

- Exemption from payment of fees for the Wollongong UniCentre will be granted to life members of the UniCentre and to permanent full-time and limited term staff of the University.
- Exemption from payment of fees for the Recreation and Aquatic Centre will be granted to life members of the Recreation and Aquatic Centre and to permanent full-time and limited term staff of the University.
- Students who have paid fees for six or more years are eligible to apply for life membership of the UniCentre and/or the Recreation and Aquatic Centre.
- Students enrolled at other Universities undertaking cross institutional study at University of Wollongong that are covered by exemption arrangements.

Charges for off-campus Students
Students studying for specified University of Wollongong courses offered in an off-campus mode will be required to pay the Student Association entrance and annual fees, but will be exempt from both the Wollongong UniCentre and Recreation and Aquatic Centre fees. The courses specified for this purpose will be determined by the Vice-Principal (Administration) or his/her nominee.

Other Charges

<table>
<thead>
<tr>
<th>Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Late payment of Compulsory Service Charges</td>
<td>$60.00</td>
</tr>
<tr>
<td>Reinstatement charge (following termination of enrolment)</td>
<td>$100.00</td>
</tr>
<tr>
<td>Failure to re-enrol by the prescribed date</td>
<td>$100.00</td>
</tr>
<tr>
<td>Application fee to amend academic record (where a student error)</td>
<td>$80.00</td>
</tr>
<tr>
<td>Replacement Testamur</td>
<td>$50.00</td>
</tr>
<tr>
<td>Transcripts (2 copies)</td>
<td>$20.00</td>
</tr>
</tbody>
</table>

Parking Charges *(per annum)*

<table>
<thead>
<tr>
<th>Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reserved Parking (Guaranteed Places)</td>
<td>$531.30</td>
</tr>
<tr>
<td>Category 1 Places (red zone)</td>
<td>$177.10</td>
</tr>
<tr>
<td>Category 2 Places (blue zone)</td>
<td>$103.40</td>
</tr>
</tbody>
</table>
General Information

Motorcycle parking $28.60
Disabled parking No charge

New Students

All new students are required to attend the enrolment centre and pay all charges by the date shown in their enrolment information.

Withdrawal/Refund Policy

1. Students withdrawing from a course are required to notify the Vice-Principal (Administration) in writing.
2. Where notice of withdrawal from a course is received by the Vice-Principal (Administration) before the first day of their first session a refund of all charges paid will be made.
3. On notice of withdrawal, on or after the first day of session and prior to the end of the fourth week of session, a full refund of compulsory service charges, other than entrance charges, will be made but thereafter no refund will be made, except as provided for in Section 4 below.
4. Late charges are not refundable.
5. Payments towards the Higher Education Contribution Scheme (HECS) will only be refunded where a student withdraws prior to the appropriate census date.
6. Tuition fee paying students are bound by the terms of the Tuition Fee Policy (see below).

Extension of Time

Extensions of time to pay compulsory service charges are not permitted.

Failure to Pay Charges

1. Any student who is indebted to the University and fails to make a satisfactory settlement of this indebtedness upon receipt of due notice ceases to be entitled to membership and privileges of the University. Such a student is not permitted to register for a further session, to attend classes or examinations, or to be granted any official credentials. Enrolment will be cancelled when fees have not been paid in full by the due date. Access to University facilities (email, library) will be withdrawn, examination results will not be provided, and graduation will not be permitted for students who are indebted. Re-enrolment in the next session will not be permitted for students who have fees outstanding. Indebtedness to the University includes the non-payment of charges, late charges, library fines, any arrears in rent or other financial obligations resulting from an accommodation agreement entered into with the University, and any indebtedness incurred as a result of any other financial obligation to the University.
2. When compulsory service charges are not paid in full by the due date, a late fee of $60 will be charged.
3. In order for an enrolment to be reinstated a student must pay all outstanding amounts, including late fees, plus a Reinstatement Fee of $100.

Payment of Charges

Payments such as transcripts and re-instatement charges can be paid at Student Administration.

Tuition Fee Policy

(Refer Part 3 - Policies & Codes of Practice)

Higher Education Contribution Scheme (HECS)

Students enrolling at the University will be liable under the Higher Education Contribution Scheme (HECS) unless specifically exempted. Summer session enrolment also incurs a HECS liability. HECS is payable each session and the amount of liability is determined by the load (as a proportion of the standard student load for a full year) in which a student enrolls.

Method of Payment

At enrolment, students nominate whether they wish to pay the HECS liability through the Taxation System when earnings reach the threshold prescribed yearly by the Government or whether they wish to pay the HECS liability to the University up-front and receive a discount of 25%. Students who elect to pay their HECS liability through the taxation system are able to make an up-front payment prior to the HECS census date of at least $500 (for which they receive a 25% discount). Payments may be made at the Student Administration Office using EFTPOS, credit card or cheque.

For further HECS information please refer to the 'HECS-Your Questions Answered 2002 booklet available from the Academic Registrar's Division on (02) 4221 3927.

Prizes & Scholarships

The University offers over 200 undergraduate and postgraduate scholarships and a range of prizes to students and prospective students. Further information is available at the following web addresses:

and
Part 2 - Rules

A. General University Rules

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Code of Conduct Library .................................. 16

Campus Access & Order

Part I - Preliminary
1. Preamble
   The grounds of the University of Wollongong are private
   property and the University Council has the right to regulate
   access to the grounds and to control the entry of vehicles
   and their operations within those grounds.

2. Commencement
   These Rules came into operation in this form on 11 August
   1989. The Rules incorporate the "Rules for the Control of
   Motor Vehicles Entering the Grounds of the University of

3. Parts
   The Rules are divided into three parts, as follows:
   Part I Preliminary
   Part II Access to and Order on Campus
   Part III Traffic and Parking Control

4. Interpretation
   In these Rules, unless the contrary intention appears:
   i) "Campus" includes any land which, for the time being,
      is the property of the University of Wollongong or in its
      possession or under its control, together with any
      building or other erection or construction of any kind
      whatsoever, whether permanent or temporary, standing
      on or affixed to such land or any part thereof;
   ii) "Vehicles" means all motor vehicles and includes motor
       cycles, but excludes motorised wheelchairs;
   iii) "Permits" means Category 1, Category 2, Disabled,
       Motor Cycles, Additional and Daily Permits issued in
       accordance with these Rules;
   iv) "Authorised Persons" means the Vice-Chancellor and
       Principal, the Vice-Principal (Administration), the
       University Librarian, members of the University Security
       Staff and senior members of the University staff so
       designated by the Vice-Chancellor and Principal for the
       purposes of these Rules;
   v) "Members of Staff" includes, for the purposes of these
      Rules, full-time, part-time and casual employees of the
      University of Wollongong and its associated companies,
      centres, residential complexes and employees of the
      Union and its tenants, Aquatic Centre, Students’
      Representative Council, Illawarra Technology
      Corporation and its tenants and other groups/bodies/
      organisations/companies as specified from time to time
      by the Vice-Chancellor and Principal for the purposes of
      these Rules;
   vi) "Students" includes full-time and part-time students of
       the University of Wollongong.
   vii) "Disabled Person" means a person who possesses an
       obvious visible disability or a disability supported by
       certification from a qualified medical practitioner or who
       is in possession of a valid "Disabled Persons Parking
       Authority" issued by an Australian or State Government
       Authority;
   viii) "Temporarily Disabled Person" means a person under a
        temporary disability supported by certification from a
        qualified medical practitioner.

Part II - Access to & Order On Campus

1. Persons Eligible for Entry
   Persons in the following categories may have access to the
   campus:
   i) a member of the University Council or of Convocation
      or a Fellow of the University;
   ii) a member of staff entering or remaining on campus in
       consequence of being an employee;
   iii) a student entering or remaining on campus in
       consequence of undertaking studies or research;
   iv) a person who holds a permit authorising entry to the
       campus and who has observed all conditions, if any, to
       which the authority contained in the permit is subject;
   v) a member of the Commonwealth or State Police
      Forces requested by an authorised person to enter and
      remain on the campus for the purposes of protecting
      persons or property; and
   vi) a person who otherwise has valid reason to be on the
       campus, provided entry has not been prohibited by an
       authorised person.

2. Traffic Access
   i) Pedestrians, bicycles, vehicles which display a permit
      issued in accordance with these Rules, vehicles making
      delivery of goods ordered by the University, vehicles
      operated by contractors to the University, vehicles
      picking up or setting down passengers or any other
      vehicle permitted to enter from time to time by an
      authorised person may have access to the campus.
   ii) All persons having access to the campus whether or not
       in charge of a vehicle shall conduct themselves and/or
       use their vehicles in a safe and proper manner at all
       times in accordance with the Occupational Health and
iii) All vehicles and bicycles which have access to the campus shall be driven and parked in accordance with these Rules and the directions of authorised persons.

iv) The University shall not be liable for any damage or loss, including consequential loss, suffered or caused to any person or vehicle (or its accessories or contents) or bicycle while travelling, standing or parked on the campus.

3. Identification Cards
All members of staff of the University and students are issued with Identification Cards which must be carried during attendance at the University and shown in response to any reasonable request from an authorised person or from any other member of staff who might require such identification in the course of their duties.

4. Authority Cards
Persons designated as authorised persons for the purpose of these rules are issued with Authority Cards.

5. Authorised Persons
An authorised person is empowered, under these Rules, to give such directions and to make such requests in the name of the University as may be required to maintain order within the University and to maintain orderly conduct by members of staff, students and visitors, and in particular, but without limiting the generality of the foregoing:

i) to request persons involved in disorderly conduct to leave the campus and to remove trespassers thereon;

ii) to request persons to leave inclosed lands owned or occupied by the University and to apprehend and deliver to the custody of the nearest police constable any person found committing an offence against the Inclosed Lands Act, 1901, as amended, or committing a criminal offence;

iii) to administer and control, in accordance with Part III of these Rules, access to the campus and the traffic and parking provisions therein.

6. Members of the Police Forces
Members of the Commonwealth or State Police Forces may be requested by any authorised person to enter any part of the campus when, in the opinion of such authorised person, the protection of persons and/or property require it. Members of the Police Forces may in instances of likely or actual injury to persons or damage to property take action consistent with the authorities and powers that they possess as officers of the Commonwealth or State Police Forces, as appropriate.

7. Animals on Campus
Animals are not permitted on campus unless authorised by the Vice-Principal (Administration); authorised persons may take action to remove unauthorised animals from the campus by whatever means are necessary.

8. Disorderly Conduct
In the interpretation of these Rules, the following forms of conduct will be construed as "disorderly conduct" and may lead to action being taken by authorised persons in the interests of maintaining good order and orderly conduct on campus:

i) failure to comply with by-laws, rules, orders, Council resolutions or other lawful directions of the University in relation to campus access and order;

ii) any conduct which impairs the reasonable freedom of other persons to pursue their studies, researches, duties or lawful activities in the University or to participate in the life of the University;

iii) wilful failure to obey any reasonable direction of an authorised person in relation to campus access and order;

iv) failure to furnish or provide appropriate identification on request by an authorised person;

v) wilfully entering any place on campus which the person is forbidden by an authorised person, by-law, rule, order or Council resolution to enter;

vi) wilfully littering the campus or damaging, defacing, or wrongfully dealing with any University property or any other property on campus;

vii) any other unreasonable conduct disrupting the normal activities of the University.

Where any disorderly conduct under section 8(vi) above, occurs and the person or organisation responsible can be identified, the University may take steps to recover the cost of any repairs to property or the cost of removal of offending material in addition to any disciplinary action that may be taken under the University's Discipline Rules.

9. Complaints of Alleged Disorderly Conduct
Any complaints alleging disorderly conduct against any person may be brought, in writing, by an authorised person or by a student or staff member to the Vice-Principal (Administration) who shall forward the complaint to the Vice-Chancellor and Principal; if the Vice-Chancellor and Principal deems that the matter requires any action to be taken, the matter may be dealt with as misconduct in accordance with the appropriate University Rules and authorities.

Part III - Traffic & Parking Control

1. Preamble
These Rules provide for the orderly movement and parking of vehicles and bicycles on campus. Failure to comply with the Rules may result in fines, wheel clamping, loss of parking privileges and/or disciplinary procedures.

2. Definitions
In these Rules:

a) "Authorised Persons" means the Vice-Principal (Administration), Security Staff, and Gatekeepers; and any other person designated as an authorised person in accordance with the Campus Access and Order Rules.

b) "Disabled Person" means a person who possesses an obvious visible disability or a disability supported by certification from a qualified medical practitioner or who is in possession of a valid "Disabled Persons Parking
c) "Staff Members" includes full-time, part-time and casual employees of the University of Wollongong and employees of the Union and the Illawarra Technology Corporation and their tenants, Theatre South and other groups as specified from time to time by the Vice-Chancellor;

d) "Students" includes full-time and part-time students of the University of Wollongong;

e) "Temporarily Disabled Person" means a person with a temporary disability supported by certification from a qualified medical practitioner;

f) "The University Campus" means the real property owned and/or operated by the University of Wollongong in the State of New South Wales;

g) "Vehicles" includes motor cycles and motor vehicles.

3. Access to University Grounds

a) Pedestrians, bicycles, vehicles which display a permit issued in accordance with these Rules, vehicles making delivery of goods ordered by the University, vehicles operated by contractors to the University, vehicles picking up or setting down passengers or any other vehicles permitted to enter from time to time by an authorised person, may have access to the University campus.

b) The University shall not be liable for any damage or loss, including consequential loss, suffered or caused to any person or vehicle (or its accessories or contents) while travelling, standing or parked on the University campus.

c) Any student or staff member may apply for a Motor Cycle Parking Permit, Reserved Parking Permit, Category 1 (red) Permit or Category 2 (blue) Permit in accordance with these Rules.

d) Vehicles issued with a Category 1 Permit may park in areas designated for Category 1 (red) and/or Category 2 (blue) parking.

e) Vehicles issued with a Category 2 (blue) Permit may park in areas designated Category 2 (blue) parking between 8.00 am and 4.30 pm Mondays to Fridays and may park in Category 1 areas outside these times.

d) Vehicles issued with a Regular Visitor Permit may park in Category 1 or Category 2 areas.

f) Only vehicles displaying an authorised Disabled Parking Permit may park in the areas designated for Disabled Parking.

7. Permits

a) Transferable permits for Category 1 (red) and Category 2 (blue) parking permits allow for the interchange of vehicles using a permit. These transferable permits are issued to a person and this person will be responsible for any vehicle using this permit. Infringement notices will therefore be issued to this person and will be the responsibility of this person. Additional permits for other owner registered vehicles will not be available at reduced prices.

b) Any disabled or temporarily disabled person may apply for a Disabled Parking Permit.

c) Any student or staff member may apply for a Motor Cycle Parking Permit, Reserved Parking Permit, Category 1 (red) Permit or Category 2 (blue) Permit in
writing to the Vice Principal (Administration). Replacement permits will be issued only upon written request to Personnel and Financial Services and subsequent approval of that request. Replacement Permits will incur a fee of $11.00.

d) On payment of fees prescribed separately and the due compliance by the applicant with these Rules, a Parking Permit shall be issued by the Vice Principal (Administration) or an authorised person.

e) Annual Parking Permits shall expire on the first day of Session One in the year following issue.

f) Daily permits may be issued by authorised persons on payment of the fee prescribed separately.

g) Regular Visitor Permits may be issued by authorised persons on application from sponsoring units, subject to approval by the Vice-Principal (Administration).

h) Holders of all Parking Permits, shall agree on acceptance of the permit, to be bound by these Rules.

i) All Parking Permits issued in accordance with these Rules (excepting Daily Parking Permits and Regular Visitor Permits) shall be affixed to the motor vehicle windscreen so as not to obstruct the driver’s vision.

j) All fees paid under these Rules are non-refundable.

7. Offences & Prescribed Penalties for Driving & Parking Infringements

a) The following is a list of offences derived from the Driving and Parking Rules for which infringement notices may be issued and the prescribed penalty that applies to each offence. Infringement notices may be issued by authorised persons for breaches of the Driving or Parking Rules.

i) Driving Offences

<table>
<thead>
<tr>
<th>Infringement</th>
<th>No.</th>
<th>Offence</th>
<th>Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Not Give Way to Pedestrian</td>
<td>1</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td>2. Disobey reasonable direction by authorised person</td>
<td>2</td>
<td></td>
<td>$60.00</td>
</tr>
</tbody>
</table>

All other driving matters may be reported by way of a Breach Report by an authorised person to the Vice Principal (Administration). The breach report will be adjudicated and appropriate action instigated either by way of a fine not greater than $134.00 or, in the case of staff the matter referred to Head of Unit/Department for counselling or other disciplinary action or by having the matter dealt with under the Occupational Health & Safety Act 1983. In the case of students the matter may be treated as a misconduct as described in 7(g). Where the offending driver is not a member of the Campus community other appropriate action may be instigated as deemed appropriate by the University according to the circumstances surrounding the offence.

ii) Parking Offences

<table>
<thead>
<tr>
<th>Infringement</th>
<th>No.</th>
<th>Offence</th>
<th>Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Stand Contrary to Notice:</td>
<td>1</td>
<td>“No Standing”</td>
<td>$60.00</td>
</tr>
<tr>
<td>2. Disobey Notice</td>
<td>2</td>
<td>“No Entry”</td>
<td>$60.00</td>
</tr>
<tr>
<td>3. Not stand wholly in designated parking space</td>
<td>3</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td>4. Enter Grounds and park without proper authority</td>
<td>4</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td>5. Stand vehicle on footpath, reserve or grassed area</td>
<td>5</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td>6. Not Stand Bicycle in Designated Stands or Area (Infringement Notice should only be issued where bicycle has been impounded.)</td>
<td>6</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td>7. Cause Obstruction to Vehicle or Pedestrian</td>
<td>7</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td>8. Stand Contrary to Notice “Disabled Parking Space”</td>
<td>8</td>
<td></td>
<td>$134.00</td>
</tr>
<tr>
<td>9. Stand Contrary to “No Stopping” or “No Standing” Notices erected at fire hydrants, near fire safety equipment, hazardous liquid stores, hazardous areas</td>
<td>9</td>
<td></td>
<td>$134.00</td>
</tr>
<tr>
<td>10. Stand Contrary to “No Stopping” on Ring Road</td>
<td>10</td>
<td></td>
<td>$134.00</td>
</tr>
<tr>
<td>11. Stand vehicle or bicycle across or near building egress eg. entrances, exits, fire exits, etc.</td>
<td>11</td>
<td></td>
<td>$134.00</td>
</tr>
</tbody>
</table>

The penalty applied to offences one to seven is $60.00 on each occasion, the amount being reduced to $30.00 if paid within three working days. The penalties applied to offences eight to eleven apply to vehicles being parked within or near disabled parking spaces, hazardous areas, hazardous liquid stores, fire hydrants or fire fighting equipment or entrances of buildings where safe egress may be impeded. No
discounts will apply for payment of these offences numbered eight to eleven.

iii) Wheel Clamping or Impounding of Bicycles
Blatant or persistent infringements may result in the offending vehicle being wheel clamped. Offending bicycles may also be impounded.

iv) Impounded Vehicles and Bicycles - Release
To obtain release of an impounded vehicle a payment of $134.00 is required.

A staff member or student may appeal against any action taken. Such appeal shall be made in writing to the Vice Principal (Administration) whose decision shall be final. Appeals must include the original or copy of the Infringement Notice.

Part IV - Categories of Parking & Fees
1. Transferable Permits
Parking Permits are transferable between vehicles and the electrostatic label must be displayed on the vehicle for entry to and while present on the University Campus.

2. Category “Reserved Spaces”
Single payment of $531.30 for period 1 January to 31 December in any year. Salary deduction of $20.46 per fortnight (staff only). Applications for reserved parking are available from Financial Services. Reserved parking is available in the Multi-Storey carpark and under Building No. 3.

3. Category 1 - Red Permit
Single payment of $177.10. Salary deduction $6.82 per fortnight (staff only). Single session permits are available at $88.55. Permits do not guarantee parking. “Red” carparks are generally those internal to the campus ring road. This permit also allows parking in the Multi-storey carpark but not in spaces reserved for Departments, individuals, disabled etc.

4. Category 2 - Blue Permit
Single payment of $103.40. Salary deduction $4.02 per fortnight (staff only). Single session permits are available at $51.70. Permits do not guarantee parking. “Blue” carparks are generally located in the Western part of campus during the hours 8.00am to 4.30pm Monday to Friday and in any carpark outside these hours but not in spaces reserved for Departments, individuals, disabled etc.

5. Daily Permits
$4.40 per day. Permits do not guarantee parking. These permits provide access to spaces in Category 2 “Blue” carparks during the hours 8.00am to 4.30pm Monday to Friday and in any carpark outside these hours but not in spaces reserved for Departments, individuals, disabled etc.

6. Regular Visitor Permits
Single payment of $28.60. Permits do not guarantee parking. These permits must be authorised by the Vice Principal (Administration). Requests should be forwarded through the Manager Security. Permit provides access to all carparks but not in spaces reserved for Departments, individuals, disabled etc.

7. Disabled Permits
NO CHARGE. Permanently Disabled persons will be issued with a special Permit authorising the use of Disabled Parking Spaces. Contact the Disability Services on Ext 4242. Certificate from medical practitioner or a valid “Disabled Person Parking Authority” issued by an Australian or State Government must be produced.
General Information

8. Motor Cycles
Single payment of $28.60. Access all motor cycle parking areas. Permits Do Not Guarantee Parking. Motorcycle permits are available free of charge where a Category 1 or 2 permit is purchased - motor cycle registration papers detailing owner detail for same permit holder must be produced.

9. Bicycles
No Charges. Bicycle racks are located throughout campus. Parking outside the racks will be actively discouraged and is covered by the University's parking rules.

10. Replacement Permits
Permits will only be replaced on written application to Financial Services. A $11.00 fee applies.

11. Salary deductions
Salary deductions apply for a twelve month period and any request for cessation of deductions should be addressed to Financial Services along with the return of the relevant parking permit.

12. Refunds
No refunds will be issued for any reason.

Rules for Student Discipline

Preamble
1) These Rules provide discipline procedures in cases of misconduct by students of the University. The Rules are made in accordance with Section 29 of the University of Wollongong Act, 1989, and Section 34 of the University By-law.

Commencement
2) These Rules came into operation on 8 October, 1993.

Definitions
3) In these Rules, unless the context or subject matter otherwise indicates or requires:
   “Act” refers to the University of Wollongong Act, 1989;
   “Committee of Appeal” means the Committee of Appeal constituted under Rule 41;
   “Council” means the Council of the University of Wollongong;
   “Investigation Committee” means the Investigation Committee constituted under Rule 24;
   “misconduct” means conduct on the part of a student which:
   a) breaches the University By-law or the Rules made in accordance with that By-law or any Resolutions of Council or is deemed or stated to be misconduct under the By-law, Rules or Resolutions; or
   b) constitutes a serious impediment to the carrying out of the University’s functions, including those academic and administrative functions which are properly ancillary to those set out in Section 6 of the Act or which relate to the participation by any person in the activities of the University; or
   c) is otherwise detrimental to the proper conduct of the University;
   “senior officer” means a person holding the position of Deputy Vice-Chancellor, Pro Vice-Chancellor, Vice-Principal, Dean, Head of a Department or School, Manager or Director of an Administrative Branch, University Librarian, Director of Information Technology Services or such other positions as Council may from time to time by resolution determine;
   “student” means a person enrolled at the University or in any course or program offered in conjunction with the University.

Introduction
4) The Vice-Chancellor shall have power in accordance with these Rules to take disciplinary action against any student for misconduct.

5) The Vice-Chancellor may, for reasons of convenience or of natural justice, appoint the Deputy Vice-Chancellor or a Pro Vice-Chancellor of the University to exercise any or all of the duties, powers or responsibilities under these Rules; the Vice-Chancellor shall report any such delegation to Council.

Urgency Provisions
6) The University Librarian, or in his/her absence the Manager, Client Services, or in both their absences the officer-in-charge, in cases where the misconduct or breach is so serious to warrant it, may exclude any student from, or restrict the use by the student of, any Library facilities for such period as he/she thinks fit, if in the opinion of the University Librarian, Manager, Client Services or the officer-in-charge the student is guilty of misconduct in or about the Library precincts or facilities or is in breach of any rules for the use of Library facilities as may be in force from time to time.

7) The Vice-Principal (Administration), or in his/her absence the Manager of the Academic and Student Services Branch, in cases where the misconduct or breach is so serious to warrant it, may exclude any student from attendance at a particular examination conducted by the University if in the opinion of the Vice-Principal (Administration) or the Manager the student is guilty of misconduct or is in breach of any rules applicable to the examination.

8) The Director of Information Technology Services, or in his/her absence the Manager, Facilities and Technical Services, in cases where the misconduct or breach is so serious to warrant it, may exclude any student from using, or restrict the use by the student of, any computing facilities owned or under the control of the University for such period as he/she thinks fit if in the opinion of the Director or the Manager the student is
16) The Vice-Chancellor may, of his/her own motion, bring an allegation of misconduct against a student by referring a complaint in writing to the Investigation Committee for investigation.

Immediate Action by Vice-Chancellor

17) Notwithstanding any other provision of these Rules, if, in the opinion of the Vice-Chancellor, the circumstances referred to in Rules (6), (7) or (8) or the subject of the complaint brought under Rules (14) or (16) are such that immediate or further action is required, the Vice-Chancellor may:
   - suspend a student from the University; or
   - exclude the student from, or restrict the use by the student of, any Library facilities, or
   - exclude the student from attendance at any examinations and/or withhold the examination result(s) for relevant subject(s); or
   - exclude the student from using, or restrict the use by the student of, any computing facilities;

and shall in such circumstances refer the matter to the Investigation Committee; the action taken by the Vice-Chancellor shall remain in force until the Investigation Committee has dealt with the matter.

Referral to Investigation Committee

20) If the Vice-Chancellor decides pursuant to Rule (15) that the matter warrants referral to the Investigation Committee or if action is taken pursuant to Rule (14), or to a request under Rule (11), the Vice-Principal (Administration) shall forthwith send the student concerned a copy of the reference of the complaint to the Investigation Committee, a copy of these Rules.

21) In addition, a copy of the reference referred to in Rule (20) shall be forwarded to the senior officer who brought the complaint, and, if appropriate to the particular complaint, copies of the reference shall be forwarded, in confidence, to the Dean of the Faculty responsible for the course in which the student is enrolled and to the Head(s) of the Unit(s) offering the subject(s) in which the student is enrolled and for which the complaint is concerned.

22) The Vice-Chancellor's reference to the Investigation Committee shall set out a full statement of the alleged misconduct but the Vice-Chancellor shall not be obliged to include a copy of the original complaint.
23) If the matter referred to the Investigation Committee by the Vice-Chancellor relates to a breach of the Examination Rules, the Vice-Chancellor may withhold the examination result(s) for the relevant subject(s) pending the outcome of the investigation by the Investigation Committee.

Investigation Committee

24) The Investigation Committee shall on receipt of a complaint and as promptly as possible investigate the complaint and report its finding to the Vice-Chancellor.

25) The Investigation Committee shall consist of:

for non-academic cases:
- the Deputy Vice-Chancellor or a Pro Vice-Chancellor, as chairperson;
- a senior member of academic staff appointed by the Vice-Chancellor for a one year term of office, or, if the appointee is not available for any investigation, a senior academic staff member nominated by the Vice-Chancellor to act for a particular meeting or meetings;
- the President of the Students' Representative Council in the University or, if not available, another member of the Students' Representative Council nominated by the President.

for academic cases:
- the Chair of the Academic Senate or, if not available, the Deputy Chair of the Academic Senate as Chairperson;
- a senior member of academic staff appointed by the Vice-Chancellor for a one-year term of office, or, if the appointee is not available for any investigation, a senior academic staff member nominated by the Vice-Chancellor to act for a particular meeting or meetings;
- the President of the Students' Representative Council in the University or, if not available, another member of the Students' Representative Council nominated by the President; and
- where both genders are not represented on the Committee, the Vice-Chancellor shall appoint a member of the appropriate group to redress this situation.

26) The Committee shall conduct its proceedings in accordance with the Committee Procedures set out in the Appendix.

27) The Chairperson of the Investigation Committee shall have a deliberative vote but not a casting vote, except in cases where the Committee comprises an equal number of members.

28) If any member of the Investigation Committee is unable or unwilling to act, the Vice-Chancellor may appoint a senior officer or a member of the Senate or a student as the circumstances may require to serve on the Committee.

29) No person having acted on behalf of the University in any one of the matters referred to in a particular complaint shall be qualified to sit on the Investigation Committee investigating the complaint.

30) The Vice-Principal (Administration) or his/her nominee shall be Secretary to the Investigation Committee and shall assist the Committee in whatever way the Committee, through its Chairperson, may from time to time direct.

31) The Investigation Committee shall have the power to require any member of staff of the University or any student to appear before it with a view to assisting the investigation.

32) The Investigation Committee may, in accordance with its findings under Rule 24, recommend to the Vice-Chancellor:

a) that the allegations be dismissed;

b) that no further action be taken against the student concerned;

c) that the student be reprimanded by the Vice-Chancellor;

d) i) that the student be fined and, in the event of multiple instances of misconduct, multiple fines may be applied; the fine for each instance shall not exceed $250. (NB - refer to (h) below)

ii) in addition, where the misconduct is related to a breach of Examination Rules, that the student be awarded a Fail grade for the relevant subject(s);

e) that the student be suspended from the University for a limited period and in addition, where the misconduct is related to a breach of Examination Rules, the Committee may recommend that the student be awarded a Fail grade for the relevant subject(s);

f) that the student be expelled from the University and in addition, where the misconduct is related to a breach of Examination Rules, the Committee may recommend that the student be awarded a Fail grade for the subject(s); or

g) such other penalty as the Committee may deem appropriate in the particular instance of misconduct;

h) and, in cases of damage to University property or any other action incurring a cost to the University, that, in addition to any penalty recommended above, the student may be charged for the costs incurred in replacing or repairing the property or in redressing any other results of the misconduct.

In recommending a penalty under clauses (c) to (h) above, the Committee may further recommend that the imposition of the penalty be suspended under whatever conditions and for whatever period of time the Committee deems appropriate to the particular circumstance of the complaint.
33) On receipt of the recommendation of the Investigation Committee, the Vice-Chancellor may refer the recommendation back to the Committee for further consideration or, in accordance with the recommendations dismiss the allegations, take no further action, reprimand, fine, suspend or expel the student; in addition to fining, suspending or expelling the student, the Vice-Chancellor may (a) award a Fail grade for the relevant subject(s) where the misconduct is related to a breach of Examination Rules; and/or (b) charge the costs of replacing or repairing any damaged property.

34) The decision of the Vice-Chancellor, including any decision to refer the matter back to the Investigation Committee, shall be conveyed in writing to the student by the Vice-Principal (Administration), except in the case where a student is to receive a reprimand in which case the reprimand shall be conveyed in writing by the Vice-Chancellor.

35) A copy of the letter forwarded to the student in accordance with Rule (34) shall be forwarded, in confidence, to the senior officer who brought the complaint and to any person to whom a copy of the reference of complaint was forwarded in accordance with Rule (19) and, in cases where University Security staff have been called, the Head of Security.

Appeal

36) Any student against whom action is taken pursuant to Rule (33) may appeal to Council on the grounds of lack of due process in the investigation of the complaint.

37) The appeal must be lodged in writing to the Vice-Principal (Administration) within 14 days, or within such further period as Council shall allow, or the notification of the Vice-Chancellor's action.

38) An appeal lodged by a student pursuant to Rule (36) shall be referred by the Vice-Principal (Administration) to the Committee of Appeal if the Vice-Principal (Administration) is satisfied that the appeal is based on grounds of lack of due process.

39) If the Vice-Principal (Administration) determines that an appeal lodged by a student is not based on the grounds of lack of due process, he/she shall notify the student accordingly in writing.

40) If the Vice-Principal (Administration) determines that the appellant has presented new or additional information in the appeal that was not available to the Investigation Committee, he/she shall refer the matter to the Investigation Committee for reconsideration.

Committee of Appeal

41) The Committee of Appeal shall investigate the appeal and shall decide whether due process in terms of the Committee Procedures set out in the Appendix has been followed by the Investigation Committee.

42) The Committee of Appeal shall consist of:
   - the Deputy Chancellor, as Chairperson;
   - the student member of Council or, if not available, another student appointed by Council;
   - one other member of Council appointed by Council; and
   - where both genders are not represented on the Committee, the Chancellor shall appoint a member to redress this situation.

43) The Chairperson of the Committee of Appeal shall have a deliberative vote but not a casting vote, except in cases where the Committee comprises an equal number of members.

44) No person who is a member of the Investigation Committee for a particular matter shall be a member of the Committee of Appeal for the same matter.

45) The Vice-Principal (Administration) or his/her nominee shall be Secretary to the Committee of Appeal and shall assist the Committee in whatever way the Committee, through its Chairperson, may from time to time direct.

46) If any member of the Committee of Appeal is unable or unwilling to act or if the matter of the appeal is of such urgency that the establishment of the Committee of Appeal would be unnecessarily delayed by waiting until the next scheduled meeting of Council, the Chancellor may appoint a member of Council or, in the case of the student member being unable to serve, another student to serve on the committee as the circumstances may require.

Result of Investigation

47) In those cases where the Committee of Appeal determines that due process was followed by the Investigation Committee, it will confirm the action taken by the Vice-Chancellor on the advice of the Investigation Committee and the Vice-Principal (Administration) shall inform the student accordingly in writing.

48) In those cases where the Committee of Appeal determines that there has been a lack of due process in the consideration of the case by the Investigation Committee, it will refer the matter back to the Investigation Committee with full details of the lack of due process found by the Committee and direct the Committee to reconsider the matter; the Vice-Principal (Administration) shall inform the student accordingly in writing.

Ceases to hold office

49) A member of the Investigation Committee or the Committee of Appeal who, during the currency of an investigation by the Committee of which he/she is a member, ceases to hold the office by virtue of which he/she is a member of that Committee shall remain a member of the Committee until its investigation has been completed.
Inability to act

50) If during the currency of an investigation by the investigation Committee or the Committee of Appeal a member of the Committee becomes unable, for a period as would unduly delay the completion of the investigation, to act through illness or any other cause, the Committee may complete its investigation in his/her absence if at least 2 members are able to act.

Serving of Notices

51) A document or notice required to be served on or given to a student under these Rules may be served on the student personally within the University or be sent by certified post addressed to the student's last known place or residence. If posted, service shall be deemed to have been effected on the student on the date on which it would have been delivered in the ordinary course of the post.

Effect of Penalties

52) A student who is expelled from the University shall not be re-enrolled except by permission of Council.

53) A fine imposed on a student pursuant to Rule (32) shall be paid into the general funds of the University.

54) A fine imposed on a student pursuant to Rule (32) shall be payable within 14 days of the date of notification of the fine, but an extension of time for payment may be granted by the Vice-Principal (Administration).

55) The payment of a fine shall be suspended while an appeal from the decision imposing it is pending.

56) If a fine imposed under Rule (32) is not paid within the time limited for its payment, the student shall be suspended and shall remain suspended so long as the fine remains unpaid.

57) When a fine, suspension or expulsion pursuant to Rule (32) is imposed on a student the student shall be notified in writing that he/she has a right to appeal in accordance with these Rules.

58) Suspension or expulsion imposed on a student pursuant to Rule (32) shall be deemed to be inoperative while an appeal from the decision imposing it is pending.

Suspension/Termination of Proceedings

59) The Vice-Chancellor may at any time suspend any disciplinary proceedings, including the appeal proceedings, against a student if, in the opinion of the Vice-Chancellor, the continuation of such proceedings may be in conflict with other proceedings or action being taken by the student, whether within the University or outside.

60) The Vice-Chancellor may terminate any disciplinary proceedings, including the appeal proceedings, if, at any stage, the student withdraws his/her enrolment with immediate effect.

General

61) Nothing in these Rules affects the power of any person or body in the University for the University to enforce by any other means any right vested in it or to take any other action which it may be entitled or empowered to take in the circumstances.

Appendix: Committee Procedures

A Committee shall conduct its investigation in accordance with the principles of natural justice, shall not be bound to conduct its proceedings in accordance with any rules of evidence or procedure, may disallow, inter alia, questions which it considers to be unseemly or irrelevant for the nature of its investigation, and in particular, but without prejudice to the generality of the foregoing, shall:

a) give the student concerned due notice of the nature of the investigation against him/her;

b) give the student concerned an opportunity to be heard;

c) give the senior officer bringing the complaint and/or any other staff member or student involved in the event(s) leading up to the complaint an opportunity to be heard and advise them of Committee procedures and time requirements.

d) with 7 days prior notice by the student, permit the student to be assisted or represented by such agent as he/she desires, whether a legal practitioner or otherwise;

e) at the discretion of the chairperson, permit any person appearing before the Committee, in accordance with section (c) above, to be assisted or represented by such agent as he/she desires, whether a legal practitioner or otherwise;

f) warn all persons appearing before the Committee that they are expected to conduct themselves in a reasonable and responsible manner during the proceedings and that any form of behaviour which is an impediment to the proceedings shall of itself be regarded as a breach of the Rules;

g) where the conduct of any person interferes with any other person's right to be heard, be entitled to remove that person from the meeting and to hear their evidence separately;
h) permit the student to nominate witnesses to appear in support of his/her defence against the complaint;

i) permit any person appearing before the Committee in accordance with (c) above to nominate witnesses to appear in support of his/her evidence;

j) in cases where the Committee finds that the complaint is proven, give the student the opportunity to be heard on the issue of penalty and to nominate character references to appear before the Committee;

k) hold all its proceedings in camera and keep an adequate record of the evidence and its decision;

l) with the consent of the student concerned, allow any member of the University to have access to that record.

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The Use of University Computing Facilities

The computing facilities at Wollongong are provided for the use of Wollongong students, faculty and staff in support of the programs of the University. All students, faculty and staff are responsible for ensuring that these computing facilities are used in an effective, efficient, ethical and lawful manner. The following rules relate to their use.

1. In these rules:
   a) “University” means the University of Wollongong;
   b) “computer facilities” refers to:
      i) all networking services, computer equipment and software, owned, leased or used under licence by the University including the University’s administrative computer system;
      ii) computer facilities maintained by other bodies but available for use through an agreement or agreements with the University;
      iii) all other computing facilities wherever situated where access is by means of University provided services;
   c) “computer user” means any person using the computer facilities.

2. By use of any University computer facilities a computer user agrees to abide by these rules.

3. Each computer account is assigned to one computer user only and is to be used solely for those purposes authorised by that user’s head of department/school/branch. The individual is responsible for the proper use of the computer account, including following recommended procedure for password protection. Access to information is provided on a confidential basis and that confidentiality is to be respected. Where access to facilities (including the Library catalogue and many microcomputers) is provided without a formal account and/or password then the provisions of these rules still apply.

4. University computing policy requires that users:
   a) do not use any other person’s computer account (even with the owner’s permission);
   b) do not disclose their own or attempt to discover any other computer user’s password;
   c) do not copy, disclose or transfer any of the computer software provided by the University without the written permission of Information Technology Services or appropriate department or branch;
   d) do not use any University computer facilities to violate the terms of any software license agreement, or copyright provisions;
   e) do not copy, rename, change, examine or delete files or information belonging to some other user or to the University (students and staff who use computing facilities have the right to privacy and security of their computer programs and data);
   f) do not deliberately use computing facilities to harass others, or to interfere with their work (for example to send obscene, abusive, fraudulent, threatening or repetitive messages to a user or users, is a breach of this policy);
   g) do not attempt to modify system facilities, illegally obtain extra resources, degrade the performance of any system, or attempt to subvert the restrictions associated with any computer system, computer account, network service or microcomputer software protection;
   h) do not tamper with terminals, microcomputers or any other associated equipment (faults should be reported to the department or to Information Technology Services);
   i) do not collect or discard any output without the owner’s permission;
   j) do not smoke, eat or drink around terminals, microcomputers or other computer equipment.

5. A computer user may not use computer facilities for or on behalf of any party for the purpose of profit-making or commercial activity, unless written permission has been obtained from the Director of Information Technology Services or a nominee.

6. Where the University decides to levy charges for use of particular computer facilities, each computer user agrees to pay such charges according to the schedules issued by the University. Implementation of, or changes to, these schedules will be announced at least 90 days before the beginning of the session in which they are to take effect.

7. Computing hardware may be connected to the University’s networking facilities only after approval by the Director of Information Technology Services or a nominee.
8. The University reserves the right to upgrade any of its computer facilities, as required, in the manner determined by its officers. Upgrades requiring substantial changes to user procedures will be announced at least 30 days before they are to take effect.

9. The University reserves the right to withdraw the availability of any computer facilities without notice and without penalty under the terms of any agreement concerning use of the computer facilities.

10. The use of computer facilities is provided without any express or implied guarantees as to the accuracy of computational results and output. The University accepts no responsibility for any consequences arising from the inaccuracy of any information generated through use of the computer facilities.

11. The University shall not be responsible for the loss of any information or software stored in the computer facilities. Although standard back-up procedures will be in operation on central computer facilities, the computer user assumes full responsibility for the maintenance of duplicates of any information or software belonging to the computer user.

12. The University reserves the right for authorised staff members responsible for computer systems security to monitor all computer usage, to ensure conformance with these rules and to maintain a secure, efficient and effective computing environment.

Code of Conduct - Library

Preamble
The Code of Conduct - Library applies to the behaviour required of users of the University Library facilities and services. Users are required to respect and comply with the conditions necessary to provide an appropriate atmosphere for study and research.

The Code was approved, as University policy, by the University Council on 8 April 1994.

Disciplinary Action
Any member of the staff of the University of Wollongong Library has delegated authority to require users to abide by the conditions of the Code of Conduct. Failure to respect the conditions of the Code may lead to fines or immediate suspension of access to the Library and its services, including borrowing rights.

Moreover, serious infringement of the Code, causing damage to property, disruption of Library processes and interference with the rights of other users and staff, may be defined as an act of misconduct under the University's Rules for Student Discipline and Rules for Campus Access and Order. The University Librarian and the Manager, Client Services are "authorised/senior officers" of the University under the Discipline Rules and, as such, are authorised to initiate procedures that may lead to fine, suspension or exclusion from the University.

Conditions of the Code of Conduct for the Use of the Library

1. All users have a right to use the facilities of the University Library without undue distraction or disturbance.

2. Within the precincts of the University Library, no person shall act in a manner which interferes with the comfort or convenience of other users.

3. Under the University's Rules for Campus Access and Order, University Identification cards must be carried during attendance at the University and shown in response to any reasonable request from any member of staff who might require such identification in the course of their duties. Any Library user, whether or not a member of the University, shall produce identification on request from a member of Library staff.

4. It is a condition of entry into the University Library that all bags, folders or other receptacles capable of containing Library materials and their contents may be inspected by Library staff.

5. In accordance with University policy, smoking is not permitted in the Library.

6. No substance which is liable to cause damage to Library materials may be taken into the University Library; this includes food and drink items and flammable items.

7. Animals, with the exception of guide dogs for the visually and hearing impaired, are not permitted within the University Library.

8. Talking is not permitted in reading areas: quiet conversation is allowed for the purpose of seeking assistance in the use of the catalogues or the collection.

9. The reservation of seats in public reading areas is not permitted.

10. Books and other articles left unattended in the Library for more than twenty minutes on chairs and tables may be removed by the Library staff. Articles left in these areas at closing time will be cleared away and sent to the Security Office lost property section. The University accepts no responsibility for personal belongings left in the building.

11. Library users are responsible for all material borrowed in their name and will be charged the replacement cost of any item not returned.

12. No user shall deface, mutilate or destroy Library materials: in addition to any penalty that may be imposed for such conduct, the person concerned shall be liable to pay for the full cost of repair or replacement of damaged materials.

13. Users are responsible for all Library materials borrowed in their name until such time as the items are returned to the Library and deleted from the loans register.
Borrowers will be charged the cost of replacing any item which is not returned.

14. Fines may be imposed for overdue items. Details of fine rates and borrowing conditions are available in the Library. Other penalties may be imposed for the late return of Library material.

15. Any person within the Library precincts from time to time will, for the purposes of these conditions, be deemed a "user".

Revision of Conditions
The Vice-Chancellor, on the advice of the Library Committee and of the University Librarian, may revise and update the conditions for the use of the University Library.

Publication of Code & Rules
A copy of the Code of Conduct and the relevant Rules for Student Discipline and Rules for Campus Access and Order are displayed at the entrance to any location or facility used by the University for the provision of library services.
B. General Course Rules

1. Preamble
Students should note that the University's Course Rules are under review and are likely to change between the issue of this Calendar and the commencement of the 2002 Academic Year. Students are advised, therefore, to consult the University's On Line Calendar prior to enrolment. The Web address is:
www.uow.edu.au/student/calendar/

2. Introduction
The General Course Rules govern registration, enrolment, progression through and qualification for undergraduate and postgraduate courses offered by the University and are to be read in conjunction with the appropriate Award Rules.

These rules became operative on 1 January 1998.

3. Interpretation
In the interpretation and implementation of these Rules, Council will normally act on the recommendation of appropriate authorities within the University.

In these Rules, unless the contrary intention appears:
1. ‘Council’ is the Council of the University of Wollongong;
2. ‘approved’ or ‘approval’ means approval by Council or under authority delegated by Council;
3. ‘candidate’ is a person registered for a course;
4. ‘undergraduate’ refers to candidates or courses for bachelor degrees;
5. ‘postgraduate’ refers to candidates or courses for graduate certificates, graduate diplomas, masters degrees, masters by research degrees and doctoral degrees;
6. ‘course’ is the subject or combination of subjects which a candidate takes for a certificate or a diploma or a degree;
7. ‘double degree’ is an approved course leading to the conferral of two degrees as separate awards upon a candidate who has complied with the Course Requirements for double degrees and the two individual Course Requirements inclusively;
8. ‘full time candidate’ is a candidate enrolled for a program which, for each session of registration, is three eighths or more of an annual requirement for course completion in normal minimum time;
9. ‘part time candidate’ is a candidate who is not a full time candidate;
10. ‘external candidate’ is a part time candidate registered for a course which has been approved for offer in an external mode;
11. ‘program’ is the combination of subjects in which a candidate is enrolled in any one session or year;
12. ‘course structure’ refers to the specific program of subjects which a candidate undertakes to meet the requirements of a certificate, diploma or degree,
13. ‘schedule’ refers to all subjects approved for inclusion in a course leading to an award,
14. ‘session’ is one of the three periods, autumn session, spring session, summer session, in which subjects are offered each year;
15. ‘year’ or ‘academic year’ or ‘annual’ refers to the period comprising autumn session, the following spring session and the following summer session;
16. ‘weeks of session’ are the weeks counted from the beginning of a session and not including weeks scheduled as University recess;
17. ‘subject’ is a self-contained unit of study identified by a unique number;
18. ‘research subject’ is a subject at 900 level with a value of 24 or more credit points, being either a thesis or a minor thesis, and taken for a masters by research degree or a doctoral degree;
19. ‘thesis’ is a research subject with a value of 48 credit points;
20. ‘minor thesis’ is a research subject with a value of 24 or 36 credit points;
21. ‘credit point’ is the value attached to a subject as a component of a degree and, for a subject other than a research subject, each credit point has an implied workload of 28 hours over the duration of that subject;
22. ‘weighted average mark’ is the average of marks gained by a candidate in a program, programs or course and weighted by credit point value and by level;
23. ‘sessional subject’ is a subject, other than a research subject, offered during one of autumn session, spring session or summer session;
24. ‘double session subject’ is a subject, other than a research subject, offered for the duration of two sessions;
25. ‘triple session subject’ is a subject, other than a 100 level subject or a research subject, offered for the duration of three consecutive sessions;
26. ‘modular subject’ is a subject, other than a research subject, offered for a defined approved period not constrained by a session of the University, and which may be offered externally;
27. ‘100 level subject’ is a subject at first year level;
28. ‘200 level subject’ is a subject at second year level;
29. ‘300 level subject’ is a subject at third year level;
30. ‘400 level subject’ is a subject at fourth year level;
'800 and 900 level subjects' are coursework subjects or research subjects at postgraduate level;

28. 'pre-requisite subject' is a subject which must be completed satisfactorily before the subject for which it is prescribed may be taken;

29. 'co-requisite subject' is a subject which must be completed satisfactorily before, taken concurrently with or, at the discretion of the Head, attempted before the subject for which it is prescribed;

30. 'Head' means the Head of the relevant academic unit, or the relevant Course Co-ordinator;

31. 'Supervisor' is a person approved to supervise the work of a candidate in a research subject;

32. 'Academic Adviser' is a person approved to advise candidates on programs of study;

33. A 'major' or 'major study' in a course for a bachelor degree, is an approved combination of subjects which have a minimum value of 48 credit points offered by one or more academic units, and including 300 and/or 400 level subjects with a value of at least 24 credit points which must be completed satisfactorily at Pass grade or better;

34. 'advanced standing' is credit or exemption granted to a candidate;

35. 'credit' is the number of credit points granted towards a course for work completed satisfactorily outside that course;

36. 'specified credit' is credit for a specific subject or subjects listed in a Schedule and is granted on the basis of satisfactory completion of a substantially corresponding subject or subjects at an approved tertiary institution;

37. 'unspecified credit' is credit granted on the basis of satisfactory completion, at an approved tertiary institution, of a subject or subjects not substantially corresponding to subjects listed in the appropriate Schedule;

38. 'exemption' is the waiving of the requirement that a subject prescribed for a course be completed satisfactorily and is granted, as exemption A, B or C, on the basis of satisfactory completion of an appropriate subject, subjects or other work at an approved tertiary institution or other establishment, as follows:

exemption A: the subject is regarded as having been completed satisfactorily for all purposes;

exemption B: the subject is regarded as having been completed satisfactorily for all purposes except the satisfying of a pre-requisite requirement;

exemption C: the subject is regarded as having been completed satisfactorily, but not for the purposes of either the satisfying of a pre-requisite requirement or the accrual of credit points; and

39. 'leave of absence' is a period of leave from the University for which prior approval has been obtained.

4. Admission

1. To qualify for admission as a candidate for:

a) a bachelor degree, a person shall comply with requirements of the Rules for Admission to Undergraduate Courses; or

b) a graduate certificate, a graduate diploma or a masters degree, a person shall have qualified for a bachelor degree of the University or for an equivalent qualification from an approved institution; or

c) a masters by research degree, a person shall have qualified for a bachelor degree in the same discipline as the proposed degree, or in an appropriate discipline of the University or for an equivalent qualification from an approved institution; or

d) a doctoral degree by thesis, a person shall comply with requirements for admission set out in the relevant part of the Rule governing the course, except that, in appropriate circumstances, an applicant who does not qualify for registration under Rule 4(1)(b), (c) or (d) may be permitted to register as a candidate for a postgraduate course provided that evidence is submitted of such tertiary academic and professional attainment as may be approved.

2. An application for admission as a candidate shall be made on the prescribed form and be lodged as directed by the specified date.

3. Notwithstanding any provisions of these Rules, an applicant may be required to demonstrate fitness for candidature by carrying out such work and satisfactorily completing such examinations as may be prescribed. 

4. Council may refuse admission to a qualified applicant should there not be appropriate and sufficient personnel or resources to enable the candidate to undertake the course, or should there be a limitation imposed on the number of candidates to be registered for that course, or should other restrictions or limitations be applied to that course.

5. A person admitted as a candidate shall register for the particular course for which admission was sought and shall be then subject to all relevant Rules and requirements.

6. A candidate for an honours bachelor degree, or for a postgraduate course under Parts 2, 3, 4, 5 or 6 of the Award Rules shall enrol as a full time candidate or as a part time candidate, or for approved courses, as an external candidate.

7. Continuation of registration is contingent upon compliance with any approved conditions imposed at initial registration or thereafter.
Advanced standing will only be awarded for a completed course. Candidates whose qualification is incomplete will be required to negotiate any advanced standing (normally on a pro-rata basis) directly with the Faculty.

Students should note that existing Advanced Standing arrangements are currently under review and further qualifications are being assessed on an ongoing basis. Students are therefore advised to consult the University's On-line Calendar prior to enrolment. The web address is www.uow.edu.au/student/calendar. You can also apply for credit not covered by the formal arrangements listed on the web site providing relevant documentation is attached. These will be assessed by the Sub-Dean of the relevant faculty.

5.1 Regulations Governing Advanced Standing

1. A candidate who has completed, at an approved tertiary institution or other establishment, one or more subjects or other work approved for the purpose of this Rule may apply for such advanced standing as detailed below.

2. With prior approval, a candidate may be permitted to enrol for a subject at another tertiary institution and, on satisfactory completion of that subject, have it counted towards a course of this University.

3. Except with approval, a candidate who has been granted specified credit for a subject or subjects satisfactorily completed at this University or elsewhere shall not be permitted to count substantially corresponding subjects towards a course of this University.

4. Except when advanced standing is granted, a candidate shall not be eligible to obtain standing towards a course by satisfactory completion at this University of a subject which corresponds substantially with a subject or subjects completed satisfactorily previously and counted towards a qualification at an approved tertiary institution.

5.2 Summary of Advanced Standing Allowable

1. An application for advanced standing shall be made on the prescribed form and lodged as directed.

2. An application for advanced standing for qualifications not herein covered will be determined on merit.

3. Unspecified credit may be converted to specified credit at any level on the recommendation of the Head.

4. Qualifications completed more than ten years prior to application may attract up to the maximum advanced standing available as:

   a) specified credit or exemption on the recommendation of the Head;

   b) unspecified credit determined on the basis of the activities of the applicant subsequent to obtaining the qualification.

5. Notwithstanding the provisions of the Rules and Regulations listed in this Calendar, advanced standing...
additional to the maximum prescribed may be approved for a specific course to be undertaken at this University.

5.3 Advanced Standing towards Pass Bachelor Degrees

1. Subject to restrictions imposed by Award Rules 105-111, the maximum advanced standing allowable:
   a) for a completed bachelor degree, is one half the credit point equivalent of the completed degree or one half the credit point value of the degree for which the applicant is a candidate, whichever is least;
   b) i) for a completed sub-degree tertiary qualification approved under the AQF guidelines established during 1995 is as follows:
      Diploma (or equivalent) - 48 credit points, comprising 42 credit points unspecified at 100 level and 6 credit points unspecified at 200 level;
      Advanced Diploma (or equivalent) - 48 credit points, comprising 36 credit points unspecified at 100 level and 12 credit points unspecified at 200 level;
   ii) for a completed sub-degree tertiary qualification approved under the National guidelines established prior to 1995 and with New South Wales Higher School Certificate (or equivalent) entry, is as follows:
      Associate Diploma (or equivalent) - 48 credit points, comprising 42 credit points unspecified at 100 level and 6 credit points unspecified at 200 level;
      Diploma (or equivalent) - 48 credit points, comprising 36 credit points unspecified at 100 level and 12 credit points unspecified at 200 level;
   iii) for a completed sub-degree tertiary qualification with entry at standard lower than New South Wales Higher School Certificate (or equivalent), is determined by the minimum number of years of equivalent full time post School Certificate study required to attain the qualification as follows:
      2 years - 24 credit points unspecified at 100 level;
      3 years - 36 credit points unspecified at 100 level;
   c) for a completed approved certificate of general or psychiatric nurse education commenced in or subsequent to 1972, is 24 credit points unspecified at 100 level;
   d) for more than one completed tertiary qualification, shall be that advanced standing allowable for one only completed tertiary qualification;
   e) for an incomplete undergraduate bachelor degree, other than a degree of this University, is two thirds of the minimum number of credit points required for the degree for which the applicant is registered; and
   f) for an incomplete diploma or advanced diploma, is proportional to the fraction of the diploma or advanced diploma completed satisfactorily.

2. No credit granted at 300 level shall comprise part of a major study, except for credit granted on the basis of subjects previously completed at this University and not then included as part of a major study.

3. Except for the exclusion provided in 5.3(1)(e), the maximum advanced standing allowable is two thirds the minimum number of credit points required for the degree for which the advanced standing is sought.

5.4 Advanced Standing towards Honours Bachelor Degrees

Advanced standing for a course for one of the honours degrees listed in Award Rule 103(5) will not be approved.

5.5 Advanced Standing towards Postgraduate Courses

1. The maximum advanced standing allowable towards courses listed under Parts, 2, 3, 4, and 5 of the Award Rules is 25% of the total credit point requirement for that course, except as provided in (2) below.

2. A candidate for the degree of masters by research under the provision of Award Rule 503, who has completed other relevant qualifications, may be granted up to 24 credit points of advanced standing for the coursework requirement set out in Award Rule 503(2)(b).

6. Enrolment

6.1 General Enrolment Rules

1. During prescribed periods in each year, a candidate shall enrol in a program in accordance with requirements of these Rules and pay any required charges. Prior to the initial registration for a course, a candidate must consult with an Academic Adviser.

2. A candidate may enrol in a subject provided that:
   a) the conditions for enrolment specified for that subject are satisfied, save that a pre-requisite or co-requisite requirement may be waived by the Head;
   b) the candidate is not excluded by any restriction that may be imposed on the number of candidates to be enrolled in that subject;
   c) the subject is available in the nominated session or sessions, or in modular form;
   d) the candidate is not suspended, excluded or expelled from any tertiary institution;
e) Council has determined that there are appropriate and sufficient personnel and resources to enable the candidate to undertake the subject; and
f) the candidate is not indebted to the University.

3. Except with the approval of a Sub-Dean, a student shall not be permitted to enrol in a program which exceeds:
   a) i. 32 credit points for any autumn or spring session;
      ii. 64 credit points for autumn and spring session combined;
      iii. 16 credit points for summer session.
   b) for a course comprising modular subjects, exceeds 24 credit points at any period in time.

4. For the purposes of Rule 6.1(4), half the value of a double session subject shall be deemed to be taken in each of the two sessions during which the subject is offered and one third the value of a triple session subject shall be deemed to be taken in each of the three sessions during which the subject is offered.

5. A candidate enrolled in a subject in contravention of the conditions for enrolment specified in the appropriate Schedule shall be withdrawn from that subject unless permitted by the Head to remain enrolled.

6. A candidate who, in a particular year, is not permitted to enrol in a subject pursuant to these Rules may apply for permission to enrol in a subsequent year.

7. A candidate who is refused continuation of registration, through suspension, exclusion or expulsion may not enrol in any subject.

6.2 Variation of Course

1. After consultation with an Academic Adviser a candidate may apply to the Vice-Principal (Administration) for permission to change registration from one course to another.

2. Permission for a candidate to change registration is contingent upon any restriction that may be imposed on the number of candidates to be registered for a particular course.

3. Variation of enrolment associated with change of registration is contingent upon restrictions imposed by relevant provisions of Rules 6.1 and 6.3.

4. Upon change of registration, a candidate becomes subject to Rules relating to the course to which registration is changed.

5. At the end of a session, a candidate for a postgraduate degree under Part 5 or 6 of the Award Rules or for an honours bachelor degree may apply to change candidature from full time to part time or from part time to full time.

6. A candidate for masters by research degree may apply to change registration to a doctoral degree in accordance with Course Rule 10.2(9).

7. Except with approval to the contrary, restrictions imposed on enrolment or registration of a candidate prior to, or at the time of a change of registration shall continue to apply after change of registration. For a candidate for an undergraduate course, the Minimum Rate of Progress Rules will apply immediately upon change of registration should there be no provisions to the contrary.

6.3 Variation of Subjects (other than Research Subjects)

1. A candidate may withdraw from a subject by notifying the Vice-Principal (Administration) in writing, provided such withdrawal is made no later than the last day of the week (prescribed in Rule 6.3(3) below) of the session in which offer of the subject is completed. A candidate withdrawing from one or more subjects is advised to seek advice from an academic adviser before submitting this notification.

2. Where a variation referred to in Rule 6.3(1) above is withdrawal from:
   a) an autumn session or spring session subject before the end of the eighth week of the session of offer; or
   b) a summer session subject before the end of the third week of the summer session; or
   c) a double session or a triple session subject before the end of the second week of the second session in which the subject is offered; or
   d) a modular subject before the end of the week during which 60% of the duration of the subject has expired;

   the candidate shall be deemed to have not enrolled in that subject, and that subject will then not appear on the academic record of the candidate.

3. Where a variation referred to in Rule 6.3(1) above is the withdrawal from:
   a) an autumn session or spring session subject after the end of the eighth week, but before the end of the twelfth week of the session of offer; or
   b) a summer session subject after the end of the third week, but before the end of the fifth week of the summer session; or
   c) a double session or a triple session subject after the end of the second week, but before the end of the eighth week of the second session in which the subject is offered; or
   d) a modular subject after the end of the week during which 60% of the subject has expired but before the end of the week during which 75% of the subject has expired;

   the candidate shall be determined to have failed that subject (but no mark shall be recorded) unless withdrawal is for acceptable medical, personal or other reasons. In this latter case, the candidate will be
deemed to have discontinued the subject without penalty for the purposes of the Minimum Rate of Progress Rules and only the subject and date of discontinuance will appear on the academic record of the candidate.

4. After consultation with an Academic Adviser a candidate may apply to the Vice-Principal (Administration) for permission to enrol in an additional subject.

5. Permission for a candidate to enrol in an additional subject is contingent upon restrictions imposed by relevant provisions of Rules 6.1, 6.3(6) & 6.3(7).

6. Except with approval of the Head, a candidate may not enrol in:
   a) an autumn session or spring session subject after the expiration of the second week of the session; or
   b) a summer session subject after the expiration of the first week of the session; or
   c) a double session or a triple session subject after the expiration of the second week of the first session in which the subject is offered or after the expiration of the first week should the first session of offer be summer session; or
   d) a modular subject after the expiration of the week during which 15% of the subject has expired.

7. Under no circumstances may a candidate enrol in:
   a) an autumn session or spring session subject after the expiration of the fourth week of the session; or
   b) a summer session subject after the expiration of the second week of the session; or
   c) a double session or a triple session subject after the expiration of the fourth week of the first session in which the subject is offered or after the expiration of the second week should the first session of offer be summer session.

6.4 Time Limits for Course Completion

1. The minimum and maximum time limits for completion of courses (listed in Rule 6.4(2) to 6.4(7) below) apply except when approved to the contrary in exceptional circumstances. For postgraduate courses, the time limits do not include summer sessions.

2. A candidate may be registered for an undergraduate course for a maximum period of three times the normal minimum duration for completion of that course, excluding approved leave of absence. The normal minimum duration for an undergraduate course with value of 144 credit points is three years and pro rata for most courses having other credit point values.

3. A candidate for a graduate certificate may be registered for that certificate for no more than:
   a) two consecutive sessions as a full time candidate; or
   b) four consecutive sessions as a part time candidate.

4. A candidate for a graduate diploma or a 48 credit point masters degree may be registered for that diploma or degree for no more than:
   a) four consecutive sessions as a full time candidate; or
   b) eight consecutive sessions as a part time candidate.

5. A candidate for a masters by coursework degree may be registered for that degree for no more than:
   a) six consecutive sessions as a full time candidate; or
   b) twelve consecutive sessions as a part time candidate.

6. A candidate for a 72 credit point masters by research degree may be registered for that degree for:
   a) no less than two consecutive sessions, and no more than four consecutive sessions as a full time candidate; or
   b) no less than four consecutive sessions, and no more than eight consecutive sessions as a part time candidate.

   c) Candidature may be extended beyond the maximum time period following a satisfactory review of progress.

7. A candidate for a doctoral degree under Part 6 of the Award Rules by thesis may be registered for that degree for:
   a) no less than four consecutive sessions, and no more than eight consecutive sessions as a full time candidate; or
   b) no less than six consecutive sessions, and no more than sixteen consecutive sessions as a part time candidate; except that:
      i) a candidate who, before registration, was engaged upon approved study may be exempted from not more than two sessions;
      ii) in special circumstances, a candidate may be permitted to devote not more than one calendar year to study at another institution provided that the work shall be supervised in an approved manner; and
      iii) in exceptional cases, a candidate may apply to be exempted from not more than two of the sessions stipulated in clause 7(a) or (b) above.

   d) Candidature may be extended beyond the maximum time period following a satisfactory review of progress.
6.5 Leave of Absence

1. A student enrolled in a bachelor degree:
   a) becomes eligible for leave of absence at the beginning of the second session of enrolment; and
   b) may take leave of absence for up to one year provided that they notify the University before the end of the fourth week of the first session for which leave is sought.
   c) may apply to the Academic Registrar for an extension of their leave of absence beyond one year.

2. A student enrolled in an 'end-on' honours bachelor degree may be granted leave of absence for up to one year provided:
   a) that student has the written consent of his/her supervisor; and
   b) that written application is made to the Academic Registrar before the end of the fourth week of the first session for which leave is sought.

3. A student enrolled in a masters by coursework degree, graduate diploma or graduate certificate:
   a) becomes eligible to apply for leave of absence at the beginning of the second session of enrolment; and
   b) may be granted leave of absence for up to one year provided that written application is made to the Academic Registrar before the end of the fourth week of the first session for which leave is sought.

4. A student enrolled in a masters by research or doctoral degree may be granted leave of absence for one year or, in exceptional circumstances, up to two years provided:
   a) that student has the written consent of his/her supervisor; and
   b) that written application is made to the Academic Registrar before the end of the fourth week of the first session for which leave is sought.

Students who take leave of absence from their course for more than one year should note that the course rules and conditions under which they originally enrolled may change during their period on leave and that they will be subject to the rules and conditions as they apply at the time that they return to their course.

6.6 Exclusion Rule

1. Where a student fails to perform satisfactorily in a mandatory placement component of a course or for other specified reasons is deemed to be unlikely to perform satisfactorily in that placement and therefore has been assessed as unsuitable to continue in such professional practice by the Academic Course Coordinator, or where the external agency has refused to permit that student access to their facilities, the student may be excluded from the course.

2. Where the Academic Course Coordinator has reason to believe it is necessary to assess a student's suitability to continue to participate in a mandatory placement component, the Academic Course Coordinator must consult and be in agreement with the Faculty Dean before proceeding. The Dean shall advise the student in writing of the decision within three business days of making it, and invite the student to show cause in writing within the next fourteen days why the rule should not be applied to them.

3. If the student is unable to show cause, he/she will have their enrolment in the course cancelled.

4. A student may appeal to the Vice Chancellor against the decision. The appeal must be lodged in writing, within fourteen days of receiving the letter of exclusion.

6.7 Conferral of Awards

1. A course award may be conferred upon a candidate who has complied with relevant parts of these Rules, satisfied any requirement set out in Rule 7.1 and 7.2 and is not indebted to the University, provided that, in addition, a candidate for a bachelor degree has completed the requirements for the 300 level subject component of the major study while so registered, or for prescribed courses, satisfactorily completed subjects with a value of at least 24 credit points while so registered.

2. A candidate who has qualified more than once at this University for the same course award, excepting as set out in Rule 6.7(3) below, and excepting for the Bachelor of Engineering, shall receive only a statement of the additional qualification setting out the subjects completed and the marks and grades attained.

3. A candidate who has qualified twice at this University for the same course award of degree of bachelor or honours degree of bachelor may be awarded the degree of Bachelor of Letters or the honours degree of Bachelor of Letters, as appropriate.

4. Application for an Academic Award: Applications for admission to a degree, diploma or associate diploma must be made on the appropriate form and by the due date for each session. It is the student's responsibility to make an application to have an award conferred.

7. Other Requirements

In addition to requirements set out in the Course Rules, candidates must satisfy the relevant requirements listed below.

7.1 Information Literacies Requirements

To satisfactorily complete the Information Literacies Requirements a candidate must:
   a) activate their Unix computer account;
b) complete an information literacy session at the Library either by attending a workshop or through a self-paced alternative; and
c) complete and submit the information literacies assignment via the web.

As these skills are assumed knowledge for some subjects, students are encouraged to meet the Information Literacies requirements (listed above) within the first 6 weeks of session. A candidate who does not satisfy this requirement will have results withheld until the requirements are met. Advanced information literacies skills, which build on this basic level, will be integrated into each undergraduate's academic program.

7.2 Minimum Mathematics Requirement
Prior to conferral of the degree of Bachelor of Science upon a candidate who has completed, for the degree, a major study comprising subjects offered by or for the Faculty of Science, the candidate must satisfy the minimum mathematics requirement by:

a) producing evidence that upon entry to the University, requirements for enrolment in the subject MATH187 Mathematics IA Part 1 have been satisfied; or
b) satisfactory completion of one of the subjects:
   i) MATH187 Mathematics IA Part 1; or
   ii) MATH141 Mathematics IC Part 1; or
   iii) MATH151 General Mathematics IA.

8. Assessment

8.1 General Rules

1. In a subject, other than a research subject, the methods of assessment of performance of a candidate shall be determined by the Head.

2. In a research subject, the methods of assessment of performance of a candidate shall be determined by the provisions of Rules 10.4 & 10.5.

3. Any material presented by a candidate for assessment in a subject must be the work of the candidate and not have been submitted for assessment elsewhere unless otherwise approved.

4. a) Standards of achievement required for the approved grades of performance in a subject, other than a research subject, shall be determined by the Head.

   b) Such standards may include the requirement that candidates must satisfy minimum attendance levels at lectures, seminars, tutorials, practicals, laboratories or for other modes of instruction. Failure to comply with such requirements may constitute grounds for failure in a subject.

5. A mark and an approved grade of performance as set out in Rule 8.3 & 8.4, shall be determined and declared for each subject in which a candidate is enrolled.

6. Subjects satisfactorily completed at Pass Conceded or Pass Restricted grade may comprise no more than one sixth of the minimum credit point value of a course.

7. Should performance in a subject be affected by illness or other cause beyond the control of a candidate, the circumstances should be reported to the Vice-Principal (Administration) in writing, supported by evidence, normally no later than seven days following the illness or other cause. The circumstances shall be referred to the Head and may be taken into account when assessment of the candidate in that subject is made.

8. A candidate who satisfactorily completes a subject listed in the appropriate Schedule shall count only once the subject or the number of credit points attached to the subject in that Schedule towards the course.

9. Except with prior approval, a candidate who satisfactorily completes a subject shall not count that subject, nor the number of credit points attached to that subject, towards a course unless that subject is listed in the appropriate Schedule.

8.2 Examination & Assessment Rules

Formal University examinations may take place at the end of each session. Timetables showing the time and place at which individual examinations will be held are posted on notice boards. Misreading of the timetable is not an acceptable excuse for failure to attend an examination. Examination results are posted to each student's mailing address. No information concerning examinations or results will be given by telephone.

Part I - Interpretation

1. In these Rules, unless the contrary intention appears:

   a) "assessment work" means all essays, tests, papers, theses, demonstrations, performances and other work whatsoever whether written or otherwise other than examination papers within the meaning of any Course Rules or Schedules;

   b) "candidate" means any person registered for a degree, diploma, associate diploma or undertaking a non-award program;

   c) "examination" means any formally supervised examination in a subject held at a specified time and place;

   d) "examination question paper" means a paper incorporating questions prepared by the examiner for an examination;

   e) "examination answer paper" means a paper written or dictated by a candidate in answer to the examination question paper during an examination;

   f) "examination room" means a designated place where an examination is held;

   g) "examiner" means a person or persons with responsibility for the assessment work in any subject;
h) "subject" is a self-contained unit of study identified by a unique number in a schedule;

i) "Examination Supervisor" means a person authorised by the Vice-Principal (Administration) with responsibility for the supervision of a particular examination held by the University.

**Part II - Conduct at Examinations**

2. No candidate shall, during any examination:
   a) have in his or her possession any material other than material which the examiner for the subject concerned has specified may be taken into an examination room;
   b) provide assistance to, or communicate with, any other candidate unless expressly approved by the examiner;
   c) accept assistance from any candidate or other person unless such assistance has been expressly approved by the examiner;
   d) permit any other candidate to read, copy from, or use his or her examination question or answer paper, unless expressly approved by the examiner;
   e) use any other material belonging to or written by another candidate or other person unless expressly approved by the examiner;
   f) by any means whatsoever, except as approved by the examiner, obtain, or endeavour to obtain, assistance in his or her work, or give, or endeavour to give, assistance to any other candidate;
   g) remove from the examination room any examination answer paper or other paper provided for use by the candidate during the course of the examination, or other material which is the property of the University unless permitted by the Examination Supervisor or examiner to remove it;
   h) contravene the Rules and Procedures for the Conduct of Examinations;
   i) cause any disturbance or be guilty of any conduct likely to disturb any other candidate; or
   j) be guilty of any other act of misconduct as defined in Section 3 of the Rules for Student Discipline.

3. Any candidate who wishes to make an enquiry regarding an examination shall direct that enquiry in writing to the Vice-Principal (Administration).

**Procedure**

4. Should an Examination Supervisor have reason to believe that a candidate has committed, or is attempting to commit, a breach of any provision of clause 2 of these Rules, the Examination Supervisor shall immediately warn the candidate and shall report the matter in writing to the Vice-Principal (Administration). The candidate normally shall be allowed to complete the examination but in circumstances considered appropriate by the Vice-Principal (Administration) or other person authorised by the Vice-Principal (Administration), the candidate may be excluded from the examination room under the provisions of Section 7 of the Rules for Student Discipline.

5. The Examination Supervisor may take possession of any material brought into an examination room in contravention of clause 2a) of these Rules.

6. The Examination Supervisor shall forward the material referred to in clause 5 to the Vice-Principal (Administration) with the report made pursuant to clause 4.

7. A candidate excluded from an examination room under clause 4 may appeal to the Vice-Chancellor under Section 12 or 13 of the Rules for Student Discipline.

8. The Vice-Principal (Administration) may refer a report pursuant to clause 4 to the Vice-Chancellor, in which event the reference shall be deemed to be a complaint pursuant to Section 14 of the Rules for Student Discipline and the Vice-Chancellor shall either:
   a) refer it to the Investigation Committee for investigation; or
   b) not proceed with it further should the Vice-Chancellor form the opinion that the complaint is unfounded or does not constitute misconduct.

9. The material confiscated pursuant to clause 5 shall be returned to the candidate at the conclusion of all action relating to the alleged breach of Rules by the Vice-Chancellor, the Investigation Committee and/or the Council Committee of Appeal.

10. Should an allegation be made that a candidate has breached any provision of clause 2 of these Rules, the candidate’s examination result for the subject concerned shall be withheld by the Vice-Principal (Administration) pending proceedings of the Investigation Committee and/or the Council Committee of Appeal.

**Penalties**

11. Should the Investigation Committee proceed pursuant to clause 8a) with the report of an alleged breach of any provision of clause 2 and find the candidate guilty of the misconduct alleged against him or her, the Investigation Committee, in addition to recommending penalties set out in Section 32 of the Rules for Student Discipline:
   a) may recommend to the Vice-Chancellor that the candidate receive a zero mark;
   b) may recommend that the candidate be given the opportunity to sit a supplementary, special or other examination and to be assessed on that examination paper.

12. A candidate may appeal to the Council Committee of Appeal on the grounds of lack of due process in the investigation of the complaint.
Part III - Assessment Work

13. For any subject for which they are enrolled, candidates are required to submit the prescribed assessment work in accordance with the instructions of the relevant examiner and the University Rules.

14. Any assessment work submitted by a candidate must be in accordance with Course Rule 8.1(3) which requires that such work must be the work of the candidate and not have been submitted for assessment elsewhere unless otherwise approved; If any material which is not entirely the work of the candidate is used, in whole or in part, fully documented reference to such material must be made.

15. The procedures and penalties set out in clauses 8, 11 and 12, with modifications appropriate to the circumstances, shall apply in relation to an alleged breach of the provisions of Part III of these Rules by a candidate.

Part IV – Rules & Procedures for the Conduct of Examinations

16. a) A candidate must obey any instruction given by an Examination Supervisor for the proper conduct of an examination.

b) A candidate must produce the student identification card for identification purposes for each examination. Should a candidate fail to do so, the candidate may be refused admission to the examination room. A candidate wearing a veil must remove it for identification purposes; on request by the candidate this may be done in private before a female Examination Supervisor.

c) A candidate should be in place in the examination room not less than ten (10) minutes before the time specified for the commencement of the examination.

d) No candidate shall be admitted to an examination room more than thirty (30) minutes after the commencement of the writing time of the examination.

e) No candidate shall be permitted to leave the examination room before the expiry of thirty (30) minutes from the commencement of writing time of the examination.

f) No candidate shall be re-admitted to the examination room after leaving it unless, during the full period of absence, the candidate is under approved supervision.

g) Following the ten (10) minute warning given by the Examination Supervisor before the end of the examination, all candidates shall remain seated until the examination answer papers have been collected.

h) Except for candidates who have left the examination room prior to the ten minute warning referred to in sub-clause (g) above, all candidates shall remain seated until all examination answer papers have been collected and the Examination Supervisor permits candidates to leave the examination room.

i) Smoking is not permitted in the examination room.

j) All answers must be in English unless otherwise directed. An international student with written approval of the Vice-Principal (Administration), may use standard translation dictionaries; the written approval and the dictionary must be shown to the Examination Supervisor prior to the commencement of the examination.

k) A candidate who commits any infringement of the Rules governing examinations may be expelled immediately from the examination room, and is liable to such further penalty as may be determined in accordance with the Rules for Student Discipline or Examination and Assessment Rules.

Special Examinations

Students who believe that their attendance at or performance in an examination or assignment has been affected by illness or other cause beyond their control are required to make a written statement to the Vice-Principal (Administration). This statement, together with any supporting evidence, will be considered by the Academic Unit Head who has the authority to take whatever action is deemed appropriate in determining the student’s overall results. Students should refer to the section on Special Consideration on the next page for more details.

Withheld (WM and WE) Results

Students may be granted a withheld result i.e. (WM or WE grade) on the basis of medical, compassionate or other circumstances (see section on Special Consideration). Where so granted, students should contact the relevant Academic Unit immediately to ascertain assessment requirements. It is the student’s responsibility to make contact with the Unit and failure to do so may result in a fail grade being determined.

8.3 Procedure for the use of Foreign Translation Dictionaries in Examinations

1. Foreign Language Translation Dictionaries may be used only by students from non-English speaking backgrounds (NESB) who are authorised to use such a dictionary in an examination.

2. To be classified as NESB, a student must have been born in a non-English speaking country and have been resident in Australia or other English speaking country for less than ten years.

3. A student who fails to meet the eligibility criteria referred to in (2) above, may apply to the Dean of Students for special permission to use a foreign translation dictionary.

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1 This is based upon the current DETYA definition, as at September 2001.
dictionary in an examination. Such applications will be considered on a case by case basis.

4. Such dictionaries may be used by eligible students for the length of their registration for a course at this University.

5. Such dictionaries may be used in all subjects, except where otherwise directed to the contrary by the relevant Head of Academic Unit.

6. Eligible students who wish to use such a dictionary and who do not have authorisation to do so, must apply for permission to Student Administration no later than four weeks prior to the examination period for which approval is sought.

7. At the approved examination:
   (a) eligible students must show their authorisation to use a foreign translation dictionary to the Examination Supervisor prior to entry into the examination room; and then
   (b) the dictionary must be submitted for inspection by the Examination Officer prior to the commencement of the examination to establish its suitability, and to ensure that it is not marked in any way. The dictionary may be further checked at any time during the examination by staff in the examination room.

8. The use of electronic foreign translation dictionaries in examinations is not permitted.

8.4 Grades of Performance for Undergraduate Subjects Listed in the Schedules & Course Structures

1. The approved grades of performance and associated ranges of marks for 100, 200, 300 and 400 level subjects (except for subjects referred to in 8.4(2) below) are:

   Satisfactory Completion:
   - High Distinction: 85% - 100%
   - Distinction: 75% - 84%
   - Credit: 65% - 74%
   - Pass: 50% - 64%
   - Pass Restricted/
     Pass Conceded: 45% - 49%

   Unsatisfactory Completion:
   - Fail: 0% - 44%

   For marks in the range 45-49% either a Pass Restricted or a Pass Conceded grade shall be determined and declared. A Pass Restricted grade may only be awarded for subjects at the 100- and 200- levels.

   The performance in some subjects approved for this purpose will be determined as:
   - Satisfactory Completion: Satisfactory, or
   - Unsatisfactory Completion: Unsatisfactory.

   Such subjects will not be included in the determination of classes of honours as prescribed in 8.4(3) below.

   For subjects in which specified assessment components must be satisfactorily completed for the subject to be satisfactorily completed, failure to satisfactorily complete one or more such components will result in failure of the subject, and the mark determined will be the aggregate of marks gained for the components, or 44, whichever is least.

2. The approved ranges of marks associated with classes of honours for 400 level 48 credit point subjects comprising the honours courses listed in Rule 103(5) are:

   - Honours Class I: 85% - 100%
   - Honours Class II, Division 1: 75% - 84%
   - Honours Class II, Division 2: 65% - 74%
   - Honours Class III: 50% - 64%
   - Fail: 0% - 49%.

3. a) The classes of honours for 4 year prescribed courses will be determined by a weighted average mark determined as:

   \[
   \text{weighted average mark} = \frac{\sum_{i=1}^{n} m_i c_i}{\sum_{i=1}^{n} c_i}
   \]

   where
   - \(m\) is the actual mark obtained in each attempt at each subject;
   - \(c\) is the credit point value of the subject;
   - \(n\) is the total number of subject attempts; and
   - \(l\) is the weight reflecting the level of the subject.

   b) The approved ranges of weighted average marks associated with classes of honours for 4 year prescribed courses are as follows.

   i) For the honours degrees of Bachelor of Engineering, in each of Civil Engineering, Environmental Engineering, Materials Engineering, Mechanical Engineering, and Mining Engineering, the weights are:

      - 4 for 400 level;
      - 3 for 300 level;
      - 2 for 200 level;
      - 1 for 100 level;

   and the ranges are:

   - Honours Class I: 77.5 - 100%
   - Honours Class II Division 1: 72.5 - 77.5%
   - Honours Class II Division 2: 67.5 - 72.5%
   - Honours Class III: 62.5 - 67.5%.
ii) For the honours degrees of Bachelor of Education, in Physical and Health Education, and Bachelor of Engineering, in each of Computer Engineering, Electrical Engineering, and Telecommunications Engineering & Bachelor of Mathematical Sciences, Bachelor of Mathematics and Economics, Bachelor of Mathematics and Finance the weights are:

4 for 400 level;
3 for 300 level;
2 for 200 level;
1 for 100 level;

and the ranges are:

Honours Class I: 77.5 - 100%
Honours Class II Division 1: 72.5 - 77.5%
Honours Class II Division 2: 67.5 - 72.5%.

iii) For the honours degrees of Bachelor of Information and Communication Technology, the weights are:

4 for 400 level;
3 for 300 level;
2 for 200 level;
0 for 100 level;

and the ranges are:

Honours Class I: 77.5 - 100%
Honours Class II Division 1: 72.5 - 77.5%
Honours Class II Division 2: 67.5 - 72.5%.

iv) For the honours degrees of Bachelor of Environmental Science, & Bachelor of Medicinal Chemistry the weights are:

4 for 400 level;
3 for 300 level;
2 for 200 level;
0 for 100 level;

except for 300 level STS, Law and Management subjects in the Bachelor of Environmental Science, for which the weighting will be 0, and the ranges are:

Honours Class I: 80 - 100%
Honours Class II, Division 1: 73 - 79%
Honours Class II, Division 2: 65 - 72%.

v) For the honours degrees of Bachelor of Biotechnology, the weights are:

4 for 400 level;
1 for 300 level;
0 for 200 level;
0 for 100 level;

except for 300 level Management and STS subjects, for which the weighting will be 0, and the ranges are:

Honours Class I: 80 - 100%
Honours Class II, Division 1: 73 - 79%
Honours Class II, Division 2: 65 - 72%.

vi) For the honours degree of Bachelor of Education, in Primary Education, the weights are:

4 for 400 level;
0 for 300 level;
0 for 200 level;
0 for 100 level;

and the ranges are:

Honours Class I: 85 - 100%
Honours Class II, Division 1: 75 - 84%
Honours Class II, Division 2: 65 - 74%
Honours Class III: 50 - 64%.

vii) For the honours degree of Bachelor of Laws the weights are:

1 for every level;

and the ranges, together with the relevant marks for the project subject LLB313 or LLB314 are:

<table>
<thead>
<tr>
<th>Av mark range AE</th>
<th>WAM</th>
<th>WAM</th>
<th>WAM</th>
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<tbody>
<tr>
<td>&lt;67.5</td>
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<td>67.5&lt;</td>
<td>72.5&lt;</td>
</tr>
<tr>
<td></td>
<td>72.5&lt;</td>
<td>77.5&lt;</td>
<td>77.5&lt;</td>
</tr>
</tbody>
</table>

85 - 100 Pass degree Hons II - 2 Hons II - 1 Hons 1
75 - 84 Pass degree Hons II - 2 Hons II - 1 Hons II - 1
65 - 74 Pass degree Hons II - 2 Hons II - 2 Hons II - 2
45 - 64 Pass degree Pass degree Pass degree Pass degree
4.4 No degree No degree No degree No degree

For a weighted average mark within 0.5 below a break mark, the class of honours may be determined on the basis of improvement or otherwise throughout the course, performance in professional option subjects, and in project or thesis subjects, and such other relevant information as is available.

d) Every attempt at a subject in the course is to be included in the determination in (b) except for subjects which are graded as satisfactory (S) or unsatisfactory (U).

e) For subjects recorded as Discontinued Technical Fail, the mark used in the determination in b) is 0.

f) Honours may be awarded only for those 4 year prescribed courses which contain 300 and 400 level subjects having a total value of at least 60 credit points, including at least 24 credit points at the 400 level, and at least 36 credit points at the
300 level taken by the candidate at this University and including a 400 level thesis or project subject with value of at least 12 credit points, except for the degree of Bachelor of Laws for which course the award of honours has no such requirements.

8.5 Grades of Performance for Postgraduate Subjects Listed in the Schedules & Course Structures

1. The approved grades of performance and associated ranges of marks for 800 and 900 level subjects, not being research subjects, are:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Distinction</td>
<td>85% - 100%</td>
</tr>
<tr>
<td>Distinction</td>
<td>75% - 84%</td>
</tr>
<tr>
<td>Credit</td>
<td>65% - 74%</td>
</tr>
<tr>
<td>Pass</td>
<td>50% - 64%</td>
</tr>
</tbody>
</table>

   Unsatisfactory Completion:
<table>
<thead>
<tr>
<th>Grade</th>
<th>Range of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fail</td>
<td>0% - 49%</td>
</tr>
</tbody>
</table>

   The performance in some subjects approved for this purpose will be determined as:

   Satisfactory Completion: Satisfactory, or

   Unsatisfactory Completion: Unsatisfactory.

   For subjects in which specified assessment components must be satisfactorily completed for the subject to be satisfactorily completed, failure to satisfactorily complete one or more such components will result in failure of the subject and the mark determined will be the aggregate of marks gained for the components, or 49, whichever is least.

2. For 900 level research subjects, performance will be determined as satisfactory or unsatisfactory for each candidate at the completion of the nominated duration of each subject, and after the completion of assessment as set out in the Thesis & Research Degree Rules.

8.6 Restricted Pass

The award of the grade of Restricted Pass in 100 and 200 level subjects will prohibit a student progressing to the next subject in a sequence for which the subject in which the Restricted Pass is awarded is a pre-requisite. However, students are not prevented from repeating a subject for which a Restricted Pass has been awarded.

You may make application to have the necessary amendment made to your academic record. Applications must also be accompanied by a letter giving relevant details.

An academic record will be amended in special circumstances only. The application will be assessed and if it is determined that the error was the fault of the student, the $80.00 charge will be paid prior to your academic record being altered.

You should note that where an application to amend your academic record by adding a subject for which you are not enrolled is successful, you are required to discharge the increased Higher Education Contribution Scheme (HECS) charge on the same basis that the original HECS liability was to be discharged, ie, either up-front or deferred payment.

Applications must be made to the Student Enquiries Office no later than two weeks after the release of examination results.

Late Withdrawal - If, you withdraw from:

   a) an Autumn session subject or a Spring session subject after the end of the eighth week but before the end of the twelfth week of the session of offer; or
   b) a Summer session subject after the end of the third week but before the end of the fifth week of the Summer session; or
   c) a double or triple session subject after the end of the second week but before the end of the eighth week of the second session in which the subject is offered;

You will be awarded a grade of 'FAIL'. However, if there are medical, compassionate or other acceptable reasons for the late withdrawal, the Course Rules allow for you to apply to have the 'FAIL' amended to 'DISCONTINUED'.

Applications for such amendments may be made at the Student Enquiries Office and need to be supported by appropriate documentary evidence.

It is not possible to withdraw from subjects after the end of the twelfth week of session for sessional subjects, the end of the fifth week of the Summer session for Summer session subjects, or the end of the eighth week of the second session of offer for double or triple session subjects.

Reassessment of Mark/Grade

If you feel that the mark or grade you have been awarded for a subject is not indicative of your performance or that there may have been an error in determining your mark or grade, you should approach the lecturer(s) concerned to discuss the matter.

If, after this discussion, you feel the mark or grade is not correct, you should approach the Head of the Unit responsible for the subject to discuss the matter further.

After you have taken these steps and you still feel the mark or grade is not correct, you may write to the Dean of the Faculty, setting out the reasons you believe the mark or grade is not correct and advising the Dean of the member(s)
of staff with whom you have discussed the matter. The Dean will respond in writing after he/she has taken whatever advice is required.

Applications to the Dean should be made no later than two weeks after the release of the examination results.

If you are not satisfied with the outcome, you may then approach the Dean of Students and request a further investigation of the matter.

Finally, if you believe there has been a lack of due process in the reassessment procedure outlined above, you may appeal, within two weeks of receiving the response from the Dean, to the Academic Review Committee to review the matter. The letter of appeal must state fully the reasons for your appeal and include any relevant documentary evidence to support your appeal. Please note, however, that the Committee's role is to ensure that due process has been followed – the Committee's role is not to reassess the academic quality of the work

8.8 Minimum Rate of Progress

1. A candidate may enrol in a program in accordance with the provisions of the Enrolment Rules provided that the rate of progress is at least the minimum specified by the relevant clauses below.

2. The required minimum rate of progress by a candidate in a bachelor degree is:
   a) in the first year of registration, satisfactory completion of subjects having a credit point value of at least one half the credit point value of the subjects offered to completion in the program for the year; and
   b) in each subsequent year of registration, satisfactory completion of subjects having a credit point value of at least two-thirds the credit point value of the subjects offered to completion in the program for the year.

3. The required minimum rate of progress by a candidate in one of the postgraduate courses listed in Parts 2, 3 and 4 of the Award Rules is satisfactory completion of subjects having a credit point value of at least one half the credit points attached to the subjects offered to completion in the program for the year.

4. a) The required minimum rate of progress by a candidate in one of the postgraduate courses listed in Part 5 of the Award Rules is satisfactory completion of subjects, excluding research subjects, having a credit point value of at least one half the credit points attached to the subjects offered to completion in the program for the year.
   b) The required minimum rate of progress by a candidate in any course listed in Part 6 of the Award Rules which includes a coursework component, is satisfactory completion of all subjects, excluding research subjects, offered to completion in the program for the year.

5. a) An undergraduate whose rate of progress is less than the minimum specified in the relevant Rule 8.8(2), (3) or (4) above will, in the first instance, be placed on probation. A student on probation will normally be placed on a restricted program for one year and will be required to consult with his faculty Sub-Dean prior to enrolment. If the same student fails to meet the required minimum rate of progress in the probationary year, and unless they can show cause for this failure, that student will be excluded from the university for a period of one year.
   
   b) An undergraduate student who, because of exceptional circumstances, can show cause for failing to meet the minimum rate of progress as specified in Rule 8.8(2), (3) or (4) above may be permitted to register for a course. However, if that candidate again fails to meeting the required minimum rate of progress in the following year, that student will be excluded from the university for a period of two years.
   
   c) A student who is excluded from registration in a course may appeal that decision.

8.9 Guidelines for the Granting of Awards with Distinction

The rules for the granting of an award "with Distinction" take effect from 1 January 2001 and apply to those courses as prescribed below.

To be eligible for the award, a student must be enrolled in one of the following courses:

- a pass bachelor degree
- a graduate diploma
- a pass masters degree

Students enrolled in an undergraduate diploma course, graduate certificate course, honours bachelor degree course (including a four year bachelor degree program where there is a built-in honours component; that is, where honours may be awarded depending on the grade achieved), masters by research degree course or doctoral degree program are not eligible for the award.

In determining the granting of an award with Distinction, in general, all subjects which constitute the degree or diploma course will be taken into account. However, in the case of students who have been granted advanced standing towards their degree or diploma as a result of studies undertaken elsewhere, only their performance in subjects studied at the University of Wollongong will be taken into consideration in determining whether they qualify for the award.

In order to achieve an award with Distinction, students must gain an average mark of 75% or more in the subjects that comprised their course.
In determining a student's average mark, all subjects are to be weighted equally regardless of their level or credit point value.

Students who enrolled in either a Bachelor of Commerce degree, Master of International Business degree or Master of Business Administration degree prior to the 1st January 2001 and who fail to meet the eligibility criteria for the granting of their award "with Distinction", may receive their award "with Merit", provided they meet the eligibility requirements as prescribed for those awards. For further information, students are advised to consult the Faculty of Commerce or the Graduate School of Business and Professional Development.


1. The University reserves the right to retain, at its discretion, the original or one copy of any work submitted for assessment in a course, competition or a subject, other than a research subject, conducted by the University.

2. The University retains the right to intellectual property resulting from work undertaken by a candidate expecting that the candidate may negotiate with the University for ownership of some or all of the intellectual property.

3. A candidate retains copyright over a thesis submitted for assessment in a subject or for an award, subject to the requirements prescribed in Rule 10.3 - Procedures Governing the Preparation & Submission of Theses.

10. Thesis & Research Degree Rules

10.1 Supervision for Thesis & Minor Thesis

1. A candidate for a masters or doctoral degree shall carry out the thesis or minor thesis work required for the research subject under the direction of a supervisor or supervisors, of whom at least one shall be a full time member of the academic staff, appointed under approved conditions.

2. Should the supervisor be absent from the University for a period exceeding six weeks, that supervisor shall recommend an alternative supervisor to be appointed under approved conditions for the period of absence.

3. Work in a research subject, other than field work, shall be carried out in an academic unit of this University save that in special cases a candidate may be permitted to conduct work at other places where suitable facilities are available; such permission will be granted on the condition that direction of the work remains entirely under the control of the supervisor appointed pursuant to Rule 10.1(1) above.

4. After consultation with the Head and on written application from a candidate, a change of supervisor may be approved.

5. Before approving the registration of an applicant as a candidate, Council shall be satisfied that adequate supervision and facilities for the proposed work are available.

10.2 Requirements for Research Subjects

1. A candidate shall, not later than one session after registration, submit the title of the thesis or minor thesis through the Head for approval; upon approval, the title may not be changed except with further approval.

2. A candidate enrolled for a research subject shall submit annually to Council, through the Head, a report on progress of work for the thesis or minor thesis.

3. A candidate shall submit to the Head two months written notice of intention to submit the thesis or minor thesis.

4. On completion of a research subject, a candidate shall submit a thesis or minor thesis embodying the results of the work undertaken in the subject.

5. The thesis or minor thesis shall be presented in a form which complies with the requirements set out in Rule 10.3 below and shall include a certificate indicating the extent to which the work has been performed by the candidate.

6. The candidate may submit for consideration any relevant work that has been published.

7. A candidate may not submit as the major part of a thesis any work or material which has previously been submitted for a degree of the University or other similar award of another tertiary institution, except for the case of a thesis submitted for the degree of Doctor of Philosophy of this University and recommended by the examiners that it be submitted for the masters by research degree.

8. A candidate submitting a thesis for a doctoral degree must comply with the following additional requirements:
   a) the majority of the work submitted shall have been completed subsequent to registration for the degree;
   b) the work shall comprise an original and significant contribution to knowledge of the subject;
   c) the thesis must present an account by the candidate of the study; and
   d) in special cases, study carried out jointly with other persons may be accepted, provided Council is satisfied that the contribution by the candidate to the joint study is adequate.

9. A candidate for a Masters by research degree may apply to change registration to a Doctoral degree under these requirements:
a) candidates must have completed sufficient study in the Masters by research program at this University to allow an assessment of the capacity of the student to undertake independent research. This would normally mean that candidates admitted to a 48 credit points or greater would complete required coursework components of the degree and have completed approximately nine (9) months of equivalent full-time candidature of their thesis component prior to application to transfer to a doctoral degree.

b) applications from candidates will be assessed by a formal public presentation of a seminar on the research topic to a group which must include as a minimum the primary supervisor; a representative from the Thesis Examination Committee; and the chair of the Faculty Research Committee (or the chair's representative) for the Faculty in which the candidate is enrolled.

c) a report on the candidate’s seminar and any other supporting documentation will be prepared by the primary supervisor. The report and recommendation, must be signed by the representative from the Thesis Examination Committee (TEC) and the chair of the Faculty Research Committee (or the chair's representative), and forwarded to the TEC.

d) the final determination will be made by the Thesis Examination Committee.

10.3 Procedures Governing the Preparation & Submission of Theses

1. The thesis and other relevant work may be submitted for examination to the Director, Office of Research provided the candidate has completed the required minimum period of registration for the degree and is registered enrolled) for the degree for which they are submitting the copies of their thesis.

2. A candidate required to submit a thesis for a masters by research degree or a doctoral degree shall submit to the Director, Office of Research:

a) a statement from their supervisor stipulating that the thesis is in a form suitable for submission for examination;

b) a statement indicating the extent to which the work is their own work;

c) in the first instance, three spiral bound copies of the thesis and supporting work for submission to examiners; and

3. The degree will not be conferred until the two final bound copies are lodged with the Director, Office of Research accompanied by a letter from the Head certifying that, if required, corrections have been satisfactorily completed.

4. All copies of the thesis shall include a summary of approximately 200 words and a declaration signed by the candidate stipulating that the work has not been submitted for a degree to any other university or institution.

5. Theses are to be prepared in accordance with the following specifications, save that variation may be approved after consultation with the supervisor:

a) the text of the thesis, normally in English, shall be in double-spaced or one and a half spaced typescript;

b) the size of the paper shall approximate International Standards Organisation paper size A4 (297mm x 210mm) except for illustrative material such as drawings, photographs, printouts and sleeves for audio records, on which no restriction is placed; the paper used in all copies shall be white opaque paper of good quality;

c) the margins on each sheet shall be not less than 40mm on the bound side, 20mm on the unbound side, 30mm at the top and 20mm at the bottom;

d) in the binding of a thesis which includes mounted photographs, graphs, or similar method, or contains a back pocket, packing shall be inserted at the spine to ensure even thickness of the volume;

e) a completed and signed "Thesis Declaration", as prescribed in Rule 10.3 (9), shall be affixed to the inside of the front cover of each copy of the thesis submitted;

f) the thesis shall be presented in a permanent and legible form as original typescript, offset printing, or copy by other approved technique; and

g) there shall be a title sheet set out in accordance with the approved style sheet.

6. The copies of the thesis provided for examination:

a) can be either spiral bound or bound in boards, covered with buckram; and

b) may be printed single or double sided on the paper.

7. The two final bound copies of the thesis shall be presented in the following manner:

a) the thesis shall be bound in boards, covered with buckram;

b) the lettering on the spine binding will be 10mm in height and will be:

i) 15mm from the bottom and across - UW;

ii) 70 from the bottom and across - the degree;

iii) underneath the degree, the year of submission of the thesis; and
General Information

iv) evenly spaced between the degree and the top, reading upwards, the name of the author, initials of given name or names first followed by family name;

8. A thesis submitted for a higher degree shall be retained in the Library for record purposes, within copyright privileges of the author, and shall be public property and accessible for consultation at the discretion of the Librarian in accordance with Rule 10.3 (9).

9. To stipulate the wishes of a candidate for a higher degree regarding utilisation of the contents of the thesis, the candidate is required to complete a “Thesis Declaration” available from the Director, Office of Research:

10. The abstract submitted with a doctoral thesis shall be listed on the University’s home page.

11. For information about the University policy on intellectual property, a candidate submitting a thesis should consult the “Intellectual Property Policy”, available from the University’s home page.

10.4 Examination of Theses

1. Council shall appoint at least:

a) three examiners of the thesis, of whom at least one shall be normally a member of the relevant academic unit and at least two shall be external to the University for a candidate for a higher doctoral degree;

b) two examiners of the thesis, each of whom shall be external to the University for a candidate for a doctoral degree; and

c) two examiners of the thesis, not more than one of whom shall be internal to the University for a candidate for a masters by research degree.

2. A supervisor of a candidate may not be an examiner of a thesis submitted by that candidate.

3. A supervisor of a candidate who has submitted a thesis shall provide a certificate indicating:

a) whether the supervisor is in agreement with the statement submitted by the candidate in accordance with Rule 10.2(5); and

b) whether, in the opinion of the supervisor, the thesis is presented in a form that complies with the requirements of Rule 10.3 and is prima facie worthy of examination.

4. An examiner of a thesis for a masters by research degree shall be asked to report on:

a) whether the thesis demonstrates that the candidate has an adequate understanding of the field of research;

b) whether the thesis demonstrates that the candidate has designed, undertaken and reported on an investigation in the specified field of research to a satisfactory level;

c) whether the candidate has presented the thesis in a manner and level appropriate to the field of research; and

d) whether the literary standard of the thesis is adequate.

5. An examiner of a thesis for a doctoral degree by thesis shall be asked to report on:

a) whether the thesis provides evidence that the candidate conducted original research;

b) whether the thesis demonstrates that the candidate has made a significant contribution to the knowledge of the subject concerned;

c) whether the thesis reveals that the candidate has a broad understanding of the discipline within which the work was conducted;

d) whether the thesis contains material suitable for publication;

e) whether the candidate has presented the thesis in a manner and level appropriate to the field of research; and

f) whether the literary standard of the thesis is adequate.

6. After examining a thesis, an examiner may recommend that:

a) the candidate be awarded the degree without further examination; or

b) the candidate be awarded the degree subject to revisions or corrections to the thesis; or

c) the candidate be required to resubmit the thesis in revised form for examination after a specified period of study and/or research; or

d) the candidate be required to attend an oral examination; or

e) in the case of a candidate for a doctoral degree, the candidate be permitted to submit the thesis for a masters by research degree; or

f) the candidate be not awarded the degree.

7. The candidate must make any revisions requested by the examiner/s, as per rule 10.4(6)(b), to the thesis within 12 months from the date of the Thesis Examination Committee Resolution. The candidate and
their supervisor may request to the Chair of the Thesis Examination Committee for an extension to this period under exceptional circumstances. If the revised thesis is not received by the Office of Research within 12 months, the candidate will be awarded a fail.

10.5 Procedures for Examination of Work Submitted for Doctor of Philosophy by Publication & Higher Doctoral Degrees

1. Each examiner shall make an independent report on the submitted work or works.
2. Prior to the oral examination of an applicant for a doctoral degree by publication or an applicant for a higher doctoral degree, should such examination be deemed necessary, each examiner shall present questions for the examination.
3. Should the examiners be not satisfied with the performance of the candidate in an oral examination, Council may permit the candidate to present for that examination on a second occasion at a time to be determined by the examiners.
4. Should the examiners not agree in their recommendations or should, for any other reason, further opinion on the merit of the submitted work be needed, Council may appoint an additional examiner or examiners who shall make an independent report on the submitted work and who may, at the discretion of such examiner or examiners, conduct an oral or written examination on that work and on the general relevant field of knowledge.
5. At the conclusion of the examination, the examiners will submit to Council a concise report on the merits of the published work and on the examination results and Council shall determine whether or not the applicant may be admitted to the degree.
6. Should the application for admission to the degree fail, the person may make one only additional application after a period of not less than three years from the date of the original application.
7. An applicant for admission to the degree shall not be present at the relevant deliberations of Council.

11. Refusal of Registration

1. A candidate may be refused registration by reason of:
   a) suspension from this University for a defined period; or
   b) exclusion from this University for a defined period; or
   c) expulsion from this University.
2. A person who is:
   a) suspended may be re-admitted to this University at the conclusion of the defined period of suspension; b) excluded must apply for admission to this University at the conclusion of the period of exclusion should re-admission be sought; and c) expelled shall not be re-admitted except by permission of Council.

3. The period of suspension will comprise one or more sessions and the remainder of the session in which the suspension is applied.
4. The period of exclusion will comprise one or more years and the remainder of the year in which the exclusion is applied.
5. Any record of performance issued by this University in respect of a person refused registration as prescribed in Rule 11.1, shall include detail of such suspension, exclusion or expulsion.

12. Other

1. General Saving Clause
Notwithstanding anything to the contrary herein contained, Council may dispense with or suspend any requirement of, or prescription by, these Rules.

2. Application for Amending Rules
Should an amendment be made to either or both these Rules or the Attachments following these Rules, the amendment shall apply from the date of implementation, but not retrospectively, to all candidates, unless determined otherwise by Council.

3. Appeal
1. A candidate may appeal against any decision made under these Rules.
2. An appeal should be made in writing to the Vice-Principal (Administration) within 14 days of notification of the decision referred to in Rule 12(3)(1).
3. An appeal shall conform with approved guidelines.
C. Award Rules

Part 1. Bachelor Degree Rules

101 Preliminary

Section 1 of these Rules applies to a candidate registered for a bachelor degree, and is to be read in conjunction with relevant provisions of the General Rules.

102 Bachelor Degrees & the Abbreviations

The following Rules apply to undergraduate courses, including approved prescribed double degree courses, leading to:

a) the pass bachelor degrees:
Bachelor of Accountancy (Hons) ... BAcy
Bachelor of Arts (Hons) ... BA
Bachelor of Biotechnology (Hons) ... BBiotech
Bachelor of Business Administration (Hons) ... BBA
Bachelor of Commerce (Hons) ... BCom
Bachelor of Computer Bioinformatics (Hons) ... BCompBioinf
Bachelor of Computer Science (Hons) ... BCompSc
Bachelor of Creative Arts (Hons) ... BCA
Bachelor of Education (Hons) ... BEd
Bachelor of Engineering (Hons) ... BE
Bachelor of Environmental Science (Hons) ... BEnvSc
Bachelor of Exercise Science & Rehabilitation (Hons) ... BExR
Bachelor of Health Science in Indigenous Health Studies (Hons) ... BHlthScIndHlthStud
Bachelor of Information & Communication Technology (Hons) ... BlnfoTech
Bachelor of Internet Science & Technology (Hons) ... BIST
Bachelor of Laws (Hons) ... LLB
Bachelor of Letters (Hons) ... LittB
Bachelor of Marine Science (Hons) ... BMarSc
Bachelor of Mathematical Sciences (Hons) ... BMathSc
Bachelor of Mathematics (Hons) ... BMath
Bachelor of Mathematics & Economics (Hons) ... BMathEcon
Bachelor of Mathematics & Finance (Hons) ... BMathFin
Bachelor of Medical Physics (Hons) ... BMedPhys
Bachelor of Medical Radiation Physics (Hons) ... BMedRadPhys
Bachelor of Medical Science (Hons) ... BMedSci
Bachelor of Medicinal Chemistry (Hons) ... BMedChem
Bachelor of Nursing (Hons) ... BNursing
Bachelor of Nutrition & Dietetics (Hons) ... BNutrDiet
Bachelor of Psychology (Hons) ... BPsyc
Bachelor of Science (Hons) ... BSc
Bachelor of Teaching (Hons) ... BTeach

b) the honours bachelor degrees:
Bachelor of Arts (Hons) ... BA (Hons)
Bachelor of Biotechnology (Hons) ... BBiotech (Hons)
Bachelor of Biotechnology (Adv) (Hons) ... BBiotech (Hons)Adv
Bachelor of Commerce (Hons) ... BCom (Hons)
Bachelor of Computer Bioinformatics (Hons) ... BCompBioinf (Hons)
Bachelor of Computer Science (Hons) ... BCompSc (Hons)
Bachelor of Creative Arts (Hons) ... BCA (Hons)
Bachelor of Education (Hons) ... BEd (Hons)
Bachelor of Engineering (Hons) ... BE (Hons)
Bachelor of Environmental Science (Hons) ... BEnvSc (Hons)
Bachelor of Environmental Science (Advanced) (Hons) ... BEnvSci(Adv)
Bachelor of Exercise Science & Rehabilitation (Hons) ... BExR (Hons)
Bachelor of Information & Communication Technology (Hons) ... BlnfoTech (Hons)
Bachelor of Internet Science & Technology (Hons) ... BIST (Hons)
Bachelor of Laws (Hons) ... LLB (Hons)
Bachelor of Letters (Hons) ... LittB (Hons)
Bachelor of Marine Science (Hons) ... BMartSc (Hons)
Bachelor of Mathematics (Hons) ... BMath (Hons)
Bachelor of Mathematics & Economics (Hons) ... BMartEcon (Hons)
Bachelor of Mathematics & Finance (Hons) ... BMartFin (Hons)
Bachelor of Medicine & Surgery (Hons) ... BMedSurg (Hons)
Bachelor of Medical Science (Hons) ... BMedSci (Hons)
Bachelor of Medical Radiation Therapy (Hons) ... BMedRadTher (Hons)
Bachelor of Medical Science (Hons) ... BMedSci (Hons)
Bachelor of Medicinal Chemistry (Hons) ... BMedChem (Hons)
Bachelor of Nursing (Hons) ... BNursing (Hons)
Bachelor of Nutrition & Dietetics (Hons) ... BNurdiet (Hons)
Bachelor of Psychology (Hons) ... BPsyc (Hons)
Bachelor of Science (Hons) ... BSc (Hons)
Bachelor of Science (Adv) (Hons) ... BSci (Hons) Adv
Bachelor of Science in Indigenous Health Studies (Hons) ... BHlthScIndHlthStud (Hons)
Bachelor of Social Work (Hons) ... BSocWk (Hons)
Bachelor of Teaching (Hons) ... BTeach (Hons)

103 Admission & Registration Requirements

1. An applicant shall comply with relevant provisions of the Admission Rules and 103 (2) to (6) below.

2. To qualify for admission to the conversion course leading to the degree of Bachelor of Education a person shall have:
   a) qualified for the appropriate Diploma in Teaching or Bachelor of Teaching of this University or an approved equivalent qualification; and
   b) satisfactorily completed other approved requirements.

3. To qualify for admission to the degree leading to the degree of Bachelor of Laws a person shall have:
   a) qualified for the award of a bachelor degree; or
   b) complied with any other approved requirements as set out by the Bachelor of Laws course structure.

4. To qualify for admission to the conversion course leading to the degree of Bachelor of Nursing a person shall have:
   a) either:
      i) qualified for either the Diploma of Applied Science (Nursing) or the Diploma of Nursing of...
this University or an approved equivalent qualification; or
  ii) registered or be eligible for registration as a nurse in Australia, and have acceptable qualifications; and
b) satisfactorily completed other approved requirements.

5. To qualify for admission to a course leading to an honours degree of Bachelor of Arts, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Creative Arts, Bachelor of Internet Science and Technology, Bachelor of Mathematics, Bachelor of Nursing or Bachelor of Science a person shall have:
   a) either:
      i) qualified at this University for the award of a relevant pass bachelor degree, either with merit or in which the 300 level subjects in a relevant major study were completed at an average of Credit grade or better; or
      ii) qualified at another tertiary institution for the award of a pass bachelor degree containing a coherent study equivalent to a relevant major study and in which the 300 level subjects, or the equivalent, were completed at the equivalent of an average of Credit grade or better; and
b) satisfactorily completed other approved requirements.

6. A person who does not satisfy the requirements of Rule 103(5) may be considered under General Course Rule 12(1) for admission to a course for one of the honours bachelor degrees to which Rule 103(5) applies, providing:
   a) that person has a supporting recommendation from the Head; and
   b) the recommendation is approved.

7. A person who has qualified for one or more honours bachelor degrees and who is qualified for admission to a further course for honours may be permitted to register for that course provided that it differs significantly from satisfactorily completed courses for honours.

8. A candidate who, at the end of the prescribed period of registration for a course for honours referred to in Rule 103(5), fails to qualify for the award of any class of honours referred to in Rule 114(11) may not register again as a candidate for an honours bachelor degree in the same academic discipline.

104 Enrolment Requirements
1. A candidate shall comply with the relevant provisions of the General Enrolment Requirements, in addition to which a candidate registered for an honours bachelor degree may enrol in:
   a) subjects offered or approved by one academic unit; or
   b) an approved combination of subjects offered by more than one academic unit.

105 Course Requirements for Bachelor of Arts
1. To qualify for award of the degree of Bachelor of Arts a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of subjects listed in one or more of the Arts Schedule, the General Schedule or the Health and Behavioural Sciences Schedule.

2. Of the 144 credit points:
   a) at least 72 credit points, including a major study, shall be for subjects listed in the Arts Schedule (course code 702) or in the Health and Behavioural Sciences Schedule (course code 708);
   b) not more than 60 credit points shall be for 100 level subjects; and
   c) at least 36 credit points must be for subjects offered by member units of the Faculty of Arts, except:
      i) for a candidate enrolled in a degree offered by the Faculty of Health and Behavioural Sciences (course code 708), and prescribed in the relevant course structure, or
      ii) as prescribed for approved double degree programs.

3. A candidate for this course who has registered for two major studies, for which there are common subjects, may count no more than one subject in common towards these major studies, and may count the credit points for that subject, which may be at any level, once only in the credit point total required for the course.

106 Course Requirements for Bachelor of Commerce
1. To qualify for the award of the degree of Bachelor of Commerce a candidate shall:
   a) accrue an aggregate of at least 144 credit points, including a major study, by satisfactory completion of subjects listed in the General Schedule.

2. The 144 credit points shall include the subjects prescribed for one of the majors or combined majors offered by the Faculty of Commerce.

3. Of the 144 credit points, not more than 72 credit points shall be for 100 level subjects.

107 Course Requirements for Bachelor of Computer Science
1. To qualify for the award of the degree of Bachelor of Computer Science a candidate shall:
   a) accrue an aggregate of at least 144 credit points, including a major study in Computer Science, by the satisfactory completion of subjects listed in
either or both the Computer Science course structure and the General Schedule; and
b) satisfy the requirements prescribed in the Computer Science course structure.

2. Of the 144 credit points, not more than 60 credit points shall be for 100 level subjects.

108 Course Requirements for Bachelor of Mathematics

1. To qualify for the award of the degree of Bachelor of Mathematics a candidate shall:
   a) accrue an aggregate of at least 144 credit points, including a major study in either Mathematics or Applied Statistics, by the satisfactory completion of subjects listed in either or both the Bachelor of Mathematics course structure and the General Schedule; and
   b) satisfy the requirements prescribed in the Mathematics course structure.

2. Of the 144 credit points, not more than 60 credit points shall be for 100 level subjects.

109 Course Requirements for the Bachelor of Psychology

To qualify for the degree of Bachelor of Psychology a candidate shall accrue an aggregate of at least 192 credit points by satisfactory completion of subjects listed in the Bachelor of Psychology course structure, plus subjects listed in the Health and Behaviour Sciences schedule, the Science schedules or the General Schedule, subject to the following conditions:

a) Continuation in the Bachelor of Psychology course will be dependent upon achieving, in the psychology subjects approved for the degree:
   i) an average of at least 70% at the end of 100-level,
   ii) a cumulative average of 70% for 100 and 200-level subjects at the end of 200-level, and
   iii) a cumulative average of 70% for 200 and 300-level subjects at the end of 300-level.

Students who do not meet the required average would be transferred to a Bachelor of Science or Bachelor of Arts degree, majoring in Psychology.

b) Applications for entry to the Bachelor of Psychology (BPsyc) after students have completed 100, 200 and 300-levels will be considered on an annual basis. Because of limited places students will be ranked for inclusion on the basis of the following performance in the psychology subjects approved for the BPsyc:
   i) an average of at least 70% at the end of 100-level,
   ii) a cumulative average of 70% for 100 and 200-level subjects at the end of 200-level, and
   iii) a cumulative average of 70% for 200 and 300-level subjects at the end of 300-level.

110 Course Requirements for Bachelor of Science

1. To qualify for award of the degree of Bachelor of Science, a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of subjects listed in one or more of the General Schedule, the Health and Behavioural Sciences Schedule, the Science Schedule and the Engineering Schedule.

2. The 144 credit points shall include a major study and satisfy the requirements prescribed in either:
   a) the Health and Behavioural Sciences Schedule; or
   b) the Science Schedule; or
   c) the Engineering Schedule.

3. Of the 144 credit points, not more than 60 credit points shall be for 100 level subjects.

4. A major study in the Bachelor of Science, through the Faculty of Science (course code 742), may be taken in Physics, Psychology, Mathematics/Applied Statistics or Computer Science provided that:
   a) students take at least 12 credit points of 100 level and 32 credit points from 200 level and/or 300 level subjects from the Departments of Biological Sciences or Chemistry or the School of Geosciences;
   b) the intake for the Computer Science major is based on the same UAI (or equivalent) as that required for the Bachelor of Computer Science; and
   c) students outside the Faculty of Informatics only be permitted to enrol for CSCI111 Computer Science 1A in Spring session;

111 Course Requirements for Prescribed Courses for Bachelor Degrees

To qualify for the award of the degree of:

Bachelor of Accountancy
Bachelor of Arts
Bachelor of Biotechnology
Bachelor of Business Administration
Bachelor of Computer Bioinformatics
Bachelor of Creative Arts
Bachelor of Education
Bachelor of Engineering
Bachelor of Environmental Science
Bachelor of Exercise Science and Rehabilitation
Bachelor of Health Science in Indigenous Health Studies
Bachelor of Information & Communication Technology
Bachelor of Internet Science & Technology
Bachelor of Laws
Bachelor of Marine Science
Bachelor of Mathematical Sciences
Bachelor of Mathematics and Economics
Bachelor of Mathematics and Finance
Bachelor of Medical Physics
Bachelor of Medicinal Chemistry
Bachelor of Medical Radiation Physics
Bachelor of Nursing
Bachelor of Nutrition & Dietetics
Bachelor of Psychology
Bachelor of Teaching

a candidate shall complete satisfactorily the subjects and
the requirements prescribed in one of the course structures
in the relevant Faculty.

112 Course Requirements for Prescribed
Double Degree Courses for Bachelor
Degrees

To qualify for the award of the degrees of:
Bachelor of Arts-Bachelor of Commerce
Bachelor of Arts-Bachelor of Laws
Bachelor of Commerce-Bachelor of Laws
Bachelor of Computer Science-Bachelor of Laws
Bachelor of Computer Science-Bachelor of Science
Bachelor of Creative Arts-Bachelor of Arts
Bachelor of Creative Arts-Bachelor of Commerce
Bachelor of Creative Arts-Bachelor of Computer Science
Bachelor of Creative Arts-Bachelor of Laws
Bachelor of Creative Arts-Bachelor of Science
Bachelor of Engineering - Bachelor of Arts
Bachelor of Engineering-Bachelor of Commerce
Bachelor of Engineering - Bachelor of Computer Science
Bachelor of Engineering - Bachelor of Mathematics
Bachelor of Engineering - Bachelor of Science
Bachelor of Information & Communication Technology -
Bachelor of Laws
Bachelor of Mathematics-Bachelor of Computer Science
Bachelor of Mathematics-Bachelor of Engineering
Bachelor of Mathematics-Bachelor of Laws
Bachelor of Medical Science - Bachelor of Laws
Bachelor of Science - Bachelor of Arts
Bachelor of Science - Bachelor of Commerce
Bachelor of Science-Bachelor of Laws

a candidate shall complete satisfactorily the subjects and
the requirements prescribed in one of the double degree
course structures in the relevant Faculty.

113 Course Requirements for Honours
Bachelor Degrees in Arts, Commerce,
Computer Science, Creative Arts, Internet
Science & Technology, Mathematics,
Nursing & Science

To qualify for the award of an honours degree of:
Bachelor of Arts
Bachelor of Commerce
Bachelor of Computer Science
Bachelor of Creative Arts
Bachelor of Internet Science and Technology
Bachelor of Mathematics

Bachelor of Nursing
Bachelor of Science

by either a single or a combined course of study as
prescribed in Rule 104, a full time candidate shall, within a
period of two consecutive sessions not including summer
session, or a part time candidate shall, within a period of
four consecutive sessions not including summer session, as
prescribed at registration, accrue an aggregate of at least
48 credit points by the satisfactory completion of an
approved combination of 400 level subjects listed in the
relevant course structure of the relevant Faculty.

114 Conferral of Awards

1. Awards shall be conferred in accordance with the
relevant provisions of General Course Rule 6.7 and
Rules 114(2) to (11).

2. Notwithstanding the provisions of part (1) of each of
Rules 105 to 109 and rule 110, the degree of:
Bachelor of Arts
Bachelor of Commerce
Bachelor of Computer Science
Bachelor of Creative Arts
Bachelor of Mathematics
Bachelor of Science

may be conferred upon a candidate registered for a
relevant double degree course and who satisfies the
other provisions of the relevant Rule by the satisfactory
completion of subjects having a value of at least 144
credit points of which:

a) a prescribed minimum number of credit points,
including a major study, shall be for subjects listed
in the General Schedule; and

b) the other credit points shall be either, or both, for
subjects prescribed in the double degree course or
for subjects from the General Schedule.

3. The degree of Bachelor of Arts may be conferred upon
a candidate for the Bachelor of Arts - Bachelor of
Engineering degrees who satisfactorily completes
subjects having the value of at least 144 credit points
and which satisfy requirements stipulated in Rule 105.

4. Prior to the conferring of a degree of Bachelor of
Education or an Honours degree of Bachelor of
Education upon a candidate who holds either a Diploma
in Teaching or a Bachelor of Teaching of this University,
the candidate shall be deemed to have surrendered the
testamur for that Diploma in Teaching or Bachelor of
Teaching and in so doing shall be deemed to have
surrendered all rights relating to the Diploma or Degree.

5. Prior to the conferring of a degree of Bachelor of
Biotechnology or an Honours degree of Bachelor of
Biotechnology upon a candidate who holds a Bachelor
of Science of this University attained by satisfactory
completion of subjects prescribed for the first three
years for the degree of Bachelor of Biotechnology, the
candidate shall be deemed to have surrendered the
testamur for that Bachelor of Science and in so doing
shall be deemed to have surrendered all rights relating to the degree.

6. A candidate who has attained an approved standard of achievement in the course for the pass bachelor degree may be awarded that degree with distinction.

7. Prior to conferring of a degree of Bachelor of Laws upon a candidate who holds a Graduate Diploma in Law, with major other than Court Policy and Administration, of this University, the candidate shall be deemed to have surrendered the testamur for that Graduate Diploma and in doing so shall be deemed to have surrendered all rights relating to the Graduate Diploma.

8. A pass bachelor degree shall not be conferred upon a candidate who is registered for the corresponding honours bachelor degree.

9. Prior to the conferring of an honours bachelor degree upon a candidate who holds the corresponding pass bachelor degree of this University, the candidate shall be deemed to have surrendered the testamur for that pass bachelor degree and in doing so shall be deemed to have surrendered all rights relating to the pass bachelor degree.

10. A candidate for a pass degree of:
    Bachelor of Biotechnology
    Bachelor of Education
    Bachelor of Engineering
    Bachelor of Environmental Science
    Bachelor of Information & Communication Technology
    Bachelor of Laws
    Bachelor of Mathematical Sciences
    Bachelor of Mathematics and Economics
    Bachelor of Mathematics and Finance
    Bachelor of Medical Physics
    Bachelor of Medical Radiation Physics
    Bachelor of Medicinal Chemistry
    Bachelor of Psychology
who completes satisfactorily the subjects prescribed in one of the courses listed in the relevant course structure at the standard of achievement prescribed in General Course Rule 8.3, shall receive the corresponding honours degree.

11. A candidate who satisfactorily completes relevant requirements may be awarded the honours bachelor degree in one of the classes:
    Honours Class I
    Honours Class II Division 1
    Honours Class II Division 2
    Honours Class III
determined as set out in General Course Rule 8.3.

Part 2. Graduate Certificate Rules

Part 2 Preliminary

Part 2 of these Rules applies to a candidate registered for a graduate certificate and is to be read in conjunction with relevant provisions of the General Rules.

Part 2. Graduate Certificates & the Abbreviations

Part 2 of these Rules applies to postgraduate courses leading to the graduate certificates:

<table>
<thead>
<tr>
<th>GCert in Adult Career Development</th>
<th>GCertCareerDev</th>
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<tbody>
<tr>
<td>GCert in Applied Economics</td>
<td>GCertApplEcon</td>
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<tr>
<td>GCert in Banking and Finance</td>
<td>GCertBankFin</td>
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<tr>
<td>GCert in Business</td>
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<td>GCert in Business Administration</td>
<td>GCertBusAdmin</td>
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<td>GCert in Cognitive Neuroscience</td>
<td>GCertCogNeuro</td>
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<tr>
<td>GCert in Computer-based Learning</td>
<td>GCertCompBldn</td>
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<tr>
<td>GCert in Educational Leadership</td>
<td>GCertEdLead</td>
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<tr>
<td>GCert in Engineering</td>
<td>GCertEng</td>
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<tr>
<td>GCert in Environmental Education</td>
<td>GCertEnvEd</td>
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<tr>
<td>GCert in Forest Conservation &amp; Management</td>
<td>GCertFstConsMgmt</td>
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<tr>
<td>GCert in Gifted Education</td>
<td>GCertGiftEd</td>
</tr>
<tr>
<td>GCert in Health Policy and Management</td>
<td>GCertHlthPM</td>
</tr>
<tr>
<td>GCert in Higher Education</td>
<td>GCertHlthEd</td>
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<tr>
<td>GCert in History Education</td>
<td>GCertHistEd</td>
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<tr>
<td>GCert in Indigenous Health Studies</td>
<td>GCertIndHlth</td>
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<td>GCert in Industrial Relations</td>
<td>GCertIndRel</td>
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<tr>
<td>GCert in Information &amp; Communication Technology</td>
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<td>GCert in International Business</td>
<td>GCertIntBus</td>
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<td>GCert in Information Systems</td>
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<td>GCert in Literacy</td>
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<td>GCert in Logistics</td>
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<tr>
<td>GCert in Maintenance Management</td>
<td>GCertMaintMgmt</td>
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<td>GCert in Management</td>
<td>GCertMgmt</td>
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<tr>
<td>GCert in Maritime Studies</td>
<td>GCertMaritime</td>
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<tr>
<td>GCert in Marketing</td>
<td>GCertMark</td>
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<tr>
<td>GCert in Mental Health</td>
<td>GCertMntHlth</td>
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<tr>
<td>GCert in Migration and Development</td>
<td>GCertMigrDev</td>
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<tr>
<td>GCert in Multicultural Journalism</td>
<td>GCertMultiJour</td>
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<td>GCert in Nursing</td>
<td>GCertNurs</td>
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<tr>
<td>GCert in Nutrition Management</td>
<td>GCertNutMgmt</td>
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<tr>
<td>GCert in Occupational Health &amp; Safety</td>
<td>GCertOHS</td>
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<tr>
<td>GCert in Outdoor Education</td>
<td>GCertOutEd</td>
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<tr>
<td>GCert in Public Health Research Methods</td>
<td>GCertPubHlthResMth</td>
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<td>GCert in Special Education</td>
<td>GCertSpecEd</td>
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<td>GCert in Social Change and Development</td>
<td>GCertSCD</td>
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<tr>
<td>GCert in TESOL</td>
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<tr>
<td>GCert in Textual Studies, Media &amp; Linguistics</td>
<td>GCertTextStudMedLing</td>
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<td>GCert in Transnational Crime Prevention</td>
<td>GCertTransCrimePrev</td>
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<tr>
<td>GCert in Quality Management</td>
<td>GCertQM</td>
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</table>
203 Course Requirements for the Graduate Certificate

To qualify for award of a graduate certificate, a candidate shall:

a) accrue an aggregate of at least 24 credit points by the satisfactory completion of subjects approved by the Head and prescribed in one of the course structures offered by the relevant Faculty; and

b) be subject to any provisions of the Course Requirements for that particular graduate certificate.

Part 3. Graduate Diploma Rules

301 Preliminary

Part 3 of these Rules applies to a candidate registered for a graduate diploma and is to be read in conjunction with relevant provisions of the General Rules.

302 Graduate Diplomas and the Abbreviations

Part 3 of these Rules controls postgraduate courses leading to the graduate diplomas:

GDip in Adult Education & Training ....................... GDipAdultEd
GDip in Arts ................................................... GDipArts
GDip in Business Administration ............................. GDipBA
GDip in Commerce .............................................. GDipCom
GDip in Education ............................................. GDipEd
GDip in Engineering .......................................... GDipEng
GDip in Indigenous Health Studies.................... GDipIndHealth
GDip in Information Systems ................................ GDipIS
GDip in Law ...................................................... GDipLaw
GDip in Legal Practice ...................................... GDipLegPrac
GDip in Materials Welding & Joining ....................... GDipMWJ
GDip in Maintenance Management .......................... GDipMtceMgt
GDip in Natural Resources Law ......................... GDipNatResLaw
GDip in Nursing .............................................. GDipNursing
GDip in Public Health ........................................ GDipPH
GDip in Science ............................................... GDipSc
GDip in Statistics ............................................. GDipStat
GDip in TESOL ............................................... GDipTESOL
GDip in Total Quality Management ....................... GDipTQM

303 Admission & Registration Requirements

1. A candidate shall comply with the relevant provisions of the General Admission Rules and 303(2) or (3).

2. An applicant for registration for the Graduate Diploma in Educational Studies must have qualified for a three year teaching diploma or the equivalent from an approved institution and have at least one year, or the equivalent, of acceptable professional experience.

3. An applicant for registration for the Graduate Diploma in Science with major in Mental Health must have qualified for an approved three year health profession diploma or the equivalent from an approved institution and have at

least one year, or the equivalent, of acceptable professional experience.

304 Course Requirements for the Graduate Diploma

To qualify for award of a graduate diploma, a candidate shall:

a) accrue an aggregate of at least 48 credit points by the satisfactory completion of subjects approved by the Head and prescribed in one of the courses structures offered by the relevant Faculty; and

b) be subject to any provisions of the Course Requirements for that particular graduate diploma.

305 Conferral of Awards

1. A Graduate Diploma in Law with major other than Court Policy and Administration, shall not be conferred upon a candidate who is registered for the degree of Bachelor of Laws.

2. Prior to the conferring of a graduate diploma upon a candidate who holds a graduate certificate of the University and which was a component of the graduate diploma, the candidate shall be deemed to have surrendered the testamur for that graduate certificate and in doing so shall be deemed to have surrendered all rights relating to that graduate certificate.

3. A candidate who has attained an approved standard of achievement in the course for a graduate diploma may be awarded that graduate diploma with distinction.

Part 4. Masters Degree Rules

401 Preliminary

Part 4 of these Rules applies to a candidate registered for a masters degree and is to be read in conjunction with relevant provisions of the General Rules.

402 Masters Degrees & the Abbreviations

Part 4 of these Rules applies to postgraduate courses leading to the masters degrees:

Master of Accountancy .................................. MAccy
Master of Applied Finance ................................. MAppFin
Master of Applied Management in Social Change and Development .................. MApplmgmtSocChgDev
Master of Arts ................................................. MA
Master of Business Administration ....................... MBA
Master of Clinical Psychology ............................. MClinPsyc
Master of Commerce ....................................... MCom
Master of Computer Science ............................... MCompSc
Master of Computer Studies .............................. MCompStud
Master of Court Management ............................ MCourtMgmt
Master of Creative Arts ................................. MCA
Master of Economics ..................................... MEcon
Master of Education ...................................... MEd
Master of Electronic Commerce ....................... MElecComm
General Information

Master of Engineering.............................. MEng
Master of Engineering Practice ................. MEngPrac
Master of Engineering Studies .................. MEngStud
Master of Finance .................................. MFin
Master of Health Management ....................MHM
Master of Indigenous Health Studies .......... MindHealth
Master of Industrial Relations ....................MindRel
Master of Industry-based Information Technology ....MIIT
Master of Information & Communication Technology .... MInfoTech
Master of Information Systems ................. MInfoSys
Master of Information Technology Management .MITM
Master of International Business ............. MIB
Master of Internet Technology .................MIT
Master of Journalism ......................... MJ
Master of Laws .................................... LLM
Master of Laws International .................. LLLIntl
Master of Mathematics ......................... MMath
Master of Natural Resources Law ............. MNatResLaw
Master of Nursing ................................. MNursing
Master of Nutrition Management ............. MNutrMgmt
Master of Policy .................................. MPol
Master of Professional Accounting ........... MPA
Master of Public Health ......................... MPH
Master of Quality Management ................. MQM
Master of Science .................................... MSc
Master of Social Change & Development ...... MSCD
Master of Statistics ............................. MStat
Master of Strategic Human Resource Management MSHRM
Master of Strategic Marketing .................. MSM
Master of Transnational Crime Prevention MTransCrimePrev

403 Course Requirements for the Masters Degree

1. To qualify for award of a masters degree, a candidate shall:
   a) undertake an approved course recommended by the Head;
   b) accrue the required number of credit points by satisfactory completion of subjects comprising the course as set out in Rule 403(2),(3) or (4); and
   c) be subject to any provisions of the Course Requirements for that particular masters degree.

2. For a candidate who has satisfactorily completed a relevant major study or approved work equivalent to a relevant major study, either as part of a completed bachelor degree or in addition to a completed bachelor degree, the course shall comprise subjects having a value of at least 48 credit points at 900 level and selected from the relevant course structure offered by the relevant Faculty.

3. For a candidate who has completed a bachelor degree, or an approved equivalent qualification, which does not include a relevant major study or the equivalent of a relevant major study, the course shall comprise subjects having a value of at least 72 credit points of which:
   a) at least 48 credit points at 900 level shall be for subjects selected from the relevant course structure offered by the relevant Faculty; and
   b) the credit points constituting the remainder of the course shall be for subjects at 200, 300, 400, 800 or 900 level selected from the relevant Schedules and/or course structures; a maximum of 12 credit points may be for subjects at 200 level.

4. For a candidate for a degree of Master of Business Administration, the course shall comprise subjects having a value of at least 72 credit points, selected from the relevant course structure.

404 Conferral of Awards

1. Awards shall be conferred in accordance with the relevant provisions of General Course Rule 6.7 and Rule 404(2).

2. Prior to the conferring of a masters degree upon a candidate who holds a graduate certificate or a graduate diploma of this University and which was a component of the masters degree, the candidate shall be deemed to have surrendered the testamur for that graduate certificate or graduate diploma and in doing so shall be deemed to have surrendered all rights relating to that graduate certificate or graduate diploma.

3. A candidate who has attained an approved standard of achievement in the course for the pass masters degree may be awarded that degree with distinction.

Part 5. Masters by Research Degree Rules

501 Preliminary

Part 5 of these Rules applies to a candidates registered for a Masters by Research degree and is to be read in conjunction with relevant provisions of the General Rules.

502 Masters by Research Degrees & the Abbreviations

Part 5 of these Rules controls postgraduate courses leading to the Masters by Research degrees:

Master of Accountancy - Research .................MAccy - Res
Master of Arts - Research ............................. MA - Res
Master of Computer Science - Research ..........MCcompSc - Res
Master of Court Management - Research ........MCourtMgmt - Res
Master of Economics - Research ..................... MEcon - Res
Master of Education - Research ..................... MED - Res
Master of Engineering - Research ................... MEng - Res
Master of Environmental Science - Research ....MEnvSc - Res
Master of Finance - Research ....................... MFin - Res
Master of Industrial Relations - Research .......MindRel - Res
503 Course Requirements for the Masters by Research Degree

1. To qualify for award of a Masters by Research degree a candidate shall:
   a) undertake an approved course as recommended by the Head;
   b) accrue the required number of credit points by satisfactory completion of subjects comprising the course as set out in Rule 503(2);
   c) be subject to any provisions of the Course Requirements for that particular Masters by Research degree; and
   d) satisfactorily complete such examinations and other work as may be prescribed.

2. The course shall comprise subjects having a value of at least 72 credit points including:
   a) a research thesis subject having a value of 48 credit points; and
   b) other coursework subjects having a value of 24 credit points at 900 level.

504 Conferral of Awards

1. Awards shall be conferred in accordance with the relevant provisions of General Course Rule 6.7 and 504(2).

2. Prior to the conferring of a Masters by Research degree upon a candidate who holds either a graduate diploma or a masters degree of this University and which was a component of the Masters by Research degree, the candidate shall be deemed to have surrendered the testamur for that graduate diploma or masters degree and in doing so shall be deemed to have surrendered all rights relating to that graduate diploma or masters degree.

Part 6. Doctoral Degree Rules

601 Preliminary

Part 6 of these Rules applies to a candidate registered for a doctoral degree by thesis and is to be read in conjunction with relevant provisions of the General Rules.

602 Doctoral Degrees & the Abbreviations

Part 6 of these Rules applies to postgraduate courses leading by thesis to the doctoral degrees:

Doctor of Philosophy ....................................................PhD
Doctor of Creative Arts .................................................DCA
Doctor of Education ......................................................EdD
Doctor of Psychology .................................................DPsyc
Doctor of Public Health .................................................DPH

603 Admission & Registration Requirements

1. An applicant shall comply with the provisions of the General Admission Rules and 603(2) to (4)

2. An applicant for registration as a candidate for a doctoral degree shall have qualified for a bachelor degree with Honours Class II, Division 2 or higher of this University or possess an approved equivalent qualification from another institution.

3. Notwithstanding any other provisions of these Rules, the Head shall recommend whether the applicant is fit to undertake study leading to the award of a doctoral degree and certify that the unit has the necessary resources to provide supervision in the discipline in which the applicant proposes to study.

4. A candidate shall register as a full time candidate for a doctoral degree except that:
   a) a member of the full time staff of the University; or
   b) a person who is not a member of the full time staff of the University, but who, in the opinion of Council, is engaged in an occupation which provides opportunity to pursue study in the relevant academic unit, may be accepted as a part time candidate for the degree, in which cases a minimum period for the duration of study shall be prescribed.


A candidate for a degree by thesis of Doctor of Philosophy, Doctor of Creative Arts, Doctor of Education, Doctor of Psychology or Doctor of Public Health shall enrol in a research subject comprising a thesis and undertake an approved study which may include specified course and/or practical work and/or performance as recommended by the Head.
General Information

605 Outside Work
A full time candidate may be permitted to undertake teaching in the University or other work which, in the judgement of Council, will not interfere with pursuit of the course.

606 Unsatisfactory Progress
The candidature of a student making unsatisfactory progress may be made subject to probation. Outcomes may include transfer to a different degree program or termination of candidature, in accordance with the Code of Practice - Supervision, Rule 9.

Part 7. Doctoral Degree by Publication Rules

701 Preliminary
Part 7 of these Rules applies to a candidate for a doctoral degree by publication and is to be read in conjunction with the relevant provisions of the General Rules.

702 Doctoral Degree & the Abbreviation
Part 7 of these Rules applies to the postgraduate course leading to the doctoral degree by publication:
Doctor of Philosophy .................................................... PhD

703 Requirements for Doctor of Philosophy by Publication
1. A person may apply for admission as a candidate for the degree of Doctor of Philosophy by publication provided that person:
   a) i) is a graduate of this University or of the University of New South Wales at the Wollongong University College; and
   ii) has standing of not less than eight years after admission to the first degree for which the candidate has qualified; or
   b) is not a graduate of this University but is a member of the full time academic staff for a minimum period of five (5) years, with standing of not less than eight years after admission to a first degree of another University.

2. An application, accompanied by the prescribed charge, shall be made in writing to the Vice Principal (Administration) and shall include:
   a) identification of the academic unit with which the contribution to scholarship is considered to be most closely associated;
   b) five copies of a list of published works on which the claim for admission to the degree is based;
   c) five copies of the works listed in 703(2)b), all works, apart from quotations, to be presented in, or translated into, English, unless otherwise approved; and
   d) a statement, which shall be an overview of normally not less than 5,000 words, setting out ways in which the collective publications provide an original and significant contribution to knowledge and incorporating:
      i) details of sources from which the works were derived;
      ii) details of the extent to which work of others has been availed upon;
      iii) details of the extent to which the applicant was responsible for the initiation, conduct and direction of any joint works submitted as part of the application;
      iv) evidence that the publications have standing as significant contributions to knowledge; and
      v) a declaration identifying any of the works referred to in Rule 703(2)b) which have been submitted for any qualification of any tertiary institution.

704 Course Requirements for Doctor of Philosophy by Publication
A candidate for the degree of Doctor of Philosophy by publication shall enrol in a research subject comprising a thesis in accordance with the provisions of Rule 10(1).

705 Examination
1. Should Council be satisfied that the submitted work is of sufficiently high quality to be prima facie worthy of examination for the degree, it shall appoint examiners as prescribed in Rule 10(4).

2. The applicant may be required to respond orally or in writing to questions concerning the work and the general relevant field of knowledge to which it pertains.

3. The examination of the work submitted shall be conducted as prescribed in Rule 10(5).

Part 8 Higher Doctoral Degree Rules

801 Preliminary
Part 8 of these Rules applies to a candidate for a prestigious higher doctoral degree and is to be read in conjunction with relevant provisions of the General Rules.

802 Higher Doctoral Degrees & the Abbreviations
Part 8 of these Rules applies to postgraduate courses leading to the higher doctoral degrees:
Doctor of Laws ..................................................... LLD
Doctor of Letters .................................................. DLitt
Doctor of Science ............................................... DSc
803 Requirements for Doctor of Laws, Doctor of Letters & Doctor of Science

1. A person may apply for admission as a candidate for the degree of Doctor of Laws, Doctor of Letters or Doctor of Science provided that person:
   a) i) is a graduate of this University or of the University of New South Wales at the Wollongong University College; and
      ii) has standing of not less than eight years after admission to the first degree for which the candidate has qualified; or
   b) is not a graduate of this University but is a member of the full time academic staff with standing of not less than eight years after admission to a first degree of another University.

2. An application shall be made in writing to the Vice-Principal (Administration) and shall include:
   a) identification of the academic unit with which the contribution to scholarship is considered to be most closely associated;
   b) five copies of a list of published and/or unpublished works on which the claim for admission to the degree is based;
   c) five copies of the works listed in 803(2)b), all works, apart from quotations, to be presented in, or translated into, English, unless otherwise approved; and
   d) a statement, which shall be an overview of normally not less than 5,000 words, setting out ways in which the collective works provide an original and significant contribution to knowledge and incorporating:
      i) details of sources from which the works were derived;
      ii) details of the extent to which work of others has been availed upon;
      iii) details of the extent to which the applicant was responsible for the initiation, conduct and direction of any joint works submitted as part of the application;
      iv) evidence that the publications have standing as significant and sustained contributions to knowledge; and
      v) a declaration identifying any of the works referred to in Rule 803(2)b) which have been submitted for any qualification of any tertiary institution.

804 Examination

1. Should Council be satisfied that the submitted work is of sufficiently high quality to be prima facie worthy of examination for the degree, it shall appoint examiners as prescribed in Rule 10(4).

2. The applicant may be required to respond orally or in writing to questions concerning the work and the general relevant field of knowledge to which it pertains.

3. The examination of the work submitted shall be rigorous and conducted as prescribed in Rule 10(5).
Part 3 – Policies & Codes of Practice

Policies

The University has a range of policies to give guidance to students and staff.

Policies exist on the following issues:

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<td>Non-Discriminatory Language Practice and Presentation</td>
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<td>Principles under which Subject Material may be Sold to Students by Academic Units</td>
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<td>Respect for Cultural Diversity</td>
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<td>Children on Campus Policy</td>
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</tbody>
</table>

A copy of all Policies can be obtained from the Web address as detailed above, from the Secretariat Office in the Administration Building or by phoning (02) 4221 4136.

Acknowledgement Practice

Plagiarism

(see also Codes of Practice - Student and Code of Practice - Teaching & Assessment)

In a university, ideas are important, and it is also important to give people appropriate credit for having ideas.

There are several reasons why you should give people credit when using their ideas; three of the more important of those reasons are:

- fairness to authors and other students, the responsibility of students to do independent work, and respect for ownership rights.¹

If, in writing an essay or report, you copy a passage from a book word-for-word and don’t give a reference to the book, this is:

- unfair to the author who wrote the passage in the book;
- unfair to other students who do their own work without copying;
- failure to do independent work as expected in a university; and
- breach of copyright.

Giving and gaining credit for ideas is so important that a violation of established procedures has a special name: plagiarism. Plagiarism means using the ideas of someone else without giving them proper credit. That someone else may be an author, critic, journalist, artist, composer, lecturer, tutor or another student. Intentional plagiarism is a serious form of cheating. Unintentional plagiarism can result if you don’t understand and use the acceptable scholarly methods of acknowledgment. In either case, the University may impose penalties which can be very severe.

Over many years, procedures have been developed for acknowledging ideas in all forms of expression. In published writings, for example, authors are expected to give references to articles and books on which they have relied, and to give written thanks to people who have helped them in preparing their work.

There are several methods for giving credit in written work and the lecturers and tutors in the academic units in which you study should inform you about methods that are acceptable to them. A good way to gain a better understanding of those methods in a particular discipline is to read articles published in academic journals of that discipline.

The following examples will help you understand some of the common methods for acknowledging your sources. If you have any questions about these methods, check with your lecturer or tutor.

Acknowledging Sources of Quotations

If you copy part of a sentence, whole sentence(s) or paragraph(s) from an article, a book, lecture notes, an essay, report or any other source, it should be put in quotation marks and the article, book or other source should be referenced using an appropriate method.

**Example 1:** "The subjugation of thought in Australia through stringent censorship and draconian defamation laws has existed throughout the 200 years of white settlement" (Poliak, 1990, p.7).

**Correct.**

The bibliography should then include:


**Example 2:** "The subjugation of thought in Australia through stringent censorship and draconian defamation laws has existed throughout the 200 years of white settlement."^{2}

**Correct - see the footnote.**

Example 2 is presented using the footnote system in which the full reference is given as a footnote. If you copy part of a sentence, whole sentence(s) or paragraph(s) from an article, a book, lecture notes, an essay, report or any other source, you may use either footnotes at the foot of the page or endnotes at the end of the text.

**Example 3:** The subjugation of thought in Australia through stringent censorship and draconian defamation laws has existed throughout the 200 years of white settlement.

**Wrong and very bad:** this is a direct quote from Poliak and therefore should be placed in quotation marks followed by a reference using the author-date system or the footnote or endnote system. If you use a quote, the words in quotation marks must be copied exactly as they are in the original source.

**Example 4:** "In Australia, stringent censorship and draconian defamation laws have existed throughout the two hundred years of White settlement" (Poliak, 1990, p.7).

**Wrong:** the quote is inaccurate in several places.

Example 4 is presented using the author-date system in which the author of the work and the date the work was published are listed in brackets.

**Example 5:** Poliak claims that censorship and defamation law have been the means for "[t]he subjugation of thought in Australia .... throughout the 200 years of white settlement" (Pollak, 1990, p.7).

**Correct.**

Acknowledging Sources of Ideas

Even if you are not using the exact words of somebody else, it is wrong to use their ideas unless you give appropriate credit. For example, if you write an essay or paper on the censorship of the press and you structure it using the same set of topics as Pollak uses in his book *Sense and Censorship*, you should say this in a sentence or note and thus give credit to Poliak.

**Example 6:** In this essay, the use of censorship against Dorothy Hewett, Terry Hayes, Chris Masters and Brian Toohey will be described.

**Wrong:** the last four chapters of Poliak's book are on these individuals, so you should give Poliak credit for having picked them out – and more credit if you used his book for your analysis.

**Paraphrasing**

This means taking the ideas of somebody else and expressing them with different words. Since you are using your own words, you do not need to use quotation marks. However, you must make enough changes so that what you have written is distinctly different, and you must acknowledge your source.

**Example 7:** Stringent defamation laws combined with tight censorship practices have meant that independent thought has been under attack since white settlement began in Australia (Pollak, 1990, p.7).

**Correct.**

**Example 8:** In Australia, stringent censorship and draconian defamation laws have led to the subjugation of thought in Australia throughout the 200 years of White settlement (Pollak, 1990, p 7).

**Wrong:** this is too close to Pollak's original wording.

**Example 9:** Stringent defamation laws combined with tight censorship practices have meant that independent thought has been under attack since white settlement began in Australia.

**Wrong:** there is no citation of Pollak.

It is often better to avoid paraphrasing altogether and write things in your own words. One good way to do this is to first read the book or article and make brief notes. Then close the book or turn over the article and write what you want to say without looking at the source. In other words, don't refer to the source material while you are writing, unless you are transcribing a direct quote. Then, afterwards, put in the citations, in the appropriate form and at the appropriate places.

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or as reference number 2 in the List of References at the end of the essay or report.
Common Knowledge

It is unnecessary to give a citation to something that is common knowledge. Common knowledge is what 'everyone knows' about a particular subject, or which can be found in many sources such as newspapers, magazines, popular journals and radio and television reports.

Example 10: Defamation laws are quite severe in Australia.

Correct: this is common knowledge. No citation is needed.

How to Avoid Plagiarism

Unwitting plagiarism is often the result of poor study methods. The habit of copying verbatim (word-for-word) from a source as you read is dangerous. It is easy to forget that the notes you make are verbatim and to later write them into an essay or report. The only material you should write verbatim are those absolutely delightful, pithy, witty or incisive phrases which you need to make a special point in your essay or report.

The distinction between what needs to be acknowledged and what is common knowledge is not always clear. As you gain experience in expressing yourself, you will learn to discriminate and you will learn the acceptable practices for acknowledgment in the disciplines in which you study. But while you are learning, always play safe and acknowledge, acknowledge, acknowledge.

Policy Guidelines for Double Degrees

1. Preface

A double degree is defined by the University of Wollongong Course Rules as "an approved course leading to the conferral of two degrees as separate awards upon a candidate who has complied with the Course Requirements for double degrees and the two individual Course Requirements inclusively".

The University's double degree programs are designed to enhance students' educational, academic and professional qualifications whilst minimising the costs of their studies. Students with the skills and the high level of motivation required are able, for example, to complete two 144 credit point, three-year courses in 4 years. Double degrees aim to broaden a student's knowledge and skills base and improve career options in competitive, increasingly interactive fields.

2. A Note on Participating Faculties

2.1 A double degree program may involve more than two Faculties (eg, for the BSc-LLB, Law, Science and Health and Behavioural Sciences).

3. Course Development and Design

3.1 The course patterns for double degrees shall be:

<table>
<thead>
<tr>
<th>Component Course</th>
<th>Credit Points (minimum)</th>
<th>Maximum Credit Point Saving (see 3.2 below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3yr + 3yr</td>
<td>216</td>
<td>72</td>
</tr>
<tr>
<td>4yr + 3yr</td>
<td>264</td>
<td>72</td>
</tr>
<tr>
<td>4yr + 4yr</td>
<td>286</td>
<td>96</td>
</tr>
</tbody>
</table>

3.2 The credit point savings listed in this table are maximums. The maximum saving will not be available in all double degree programs, for example:

(i) the number of credit points saved by a student may be limited by the prescribed structure of some degrees;

(ii) the saving may not necessarily be distributed across both component degrees and may be possible in relation to only one of them.

3.3 The Law component of a double degree is defined as 4 year component for purpose of course design and load.

3.4 A double degree Course Proposal shall be defined as a Major Amendment to current offerings but, on application, the Pro Vice-Chancellor (Academic) may waive the normal requirement for an ECAC where both degrees already exist.

3.5 A double degree Course Proposal shall be submitted, on a special Double Degree Application Form, by the "owner" Faculty, and:

(i) include a "Calendar" entry in a common format, specifying: entry requirements, course objective, double degree course schedule, requirements for academic advice at enrolment and throughout course;

(ii) identify the "owner" Faculty (see current list attached, APPENDIX 1);

(iii) include entry for Course Rules (incl. course requirements, degree title and abbreviation, noting that a dash (-) is to be used between the two titles);

(iv) demonstrate that timetabling issues have been addressed;

(v) provide estimates of enrolments/viability demonstrated by market research;

(vi) be 'signed off' by the Deans of all participating Faculties.

4. Entry Requirements

4.1 Eligibility for entry to a double degree program shall be based on achievement of the highest UAI course entry (or equivalent) requirement (where there are different Faculty entry levels).
4.2 When these requirements are not met, the student shall be referred to the Faculty with the lower entry requirement for possible enrolment in another degree.

4.3 In the case of transfer from a single degree, the Sub-Deans from each participating Faculty shall consult with each other to determine the entry requirements and include them in their formal course information.

5. Enrolment

5.1 The Web Enrolment and Re-enrolment worksheets for a double degree student shall include a provision for the student to have the course program checked by the Sub-Dean or designated Double Degree Enrolment Officer from each participating Faculty.

5.2 Faculties with prescribed courses shall consult with the other participating Faculty/ies to ensure that the workload requirements for their courses can be accommodated in the double degree program.

6. Advice to Students

6.1 The Sub-Dean of the “owner” Faculty shall ensure that the double degree student receives a copy of the Double Degree Student Guide (see APPENDIX 2) at enrolment and is referred to it throughout the course.

6.2 The Sub-Deans of the participating Faculties, in consultation with each other and the student, shall:

(i) advise the student on the structure of a study program for the double degree course, giving attention to workload demands, performance requirements* and timetabling issues;

(ii) approve, for their respective Faculty, any advanced standing from one degree to another.

*Note: Some Faculties may require double degree students to maintain a credit average during the course.

7. Honours

7.1 Where the component pass degree program is a 3-year degree, an end-on Honours program shall add 48 credit points to the duration of the double degree.

7.2 In the case of an end-on Honours program, an Application to undertake Honours shall make provision for checking and signature by the Head of the Department/Program and the Dean/Sub-Dean of the Faculty offering the Honours studies.

7.3 Honours studies may involve joint Honours between academic units in the same Faculty.

7.4 The Course Code for the Honours component of a Double Degree shall be the same as that for the pass double degree with the addition of an identifying letter.

8. Publication of Double Degree Student Guidelines

The Double Degree Student Guide shall be made available on-line to students and staff via the Student Calendar Home Page and in the print Calendar and access details shall be provided in the Student Guide. A list of “owner” Faculties shall also be made available.

Appendix 1

The “Owner” Faculty of each Double Degree:

<table>
<thead>
<tr>
<th>Double Degree Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
</tr>
<tr>
<td>BA, BCom</td>
</tr>
<tr>
<td>Engineering</td>
</tr>
<tr>
<td>BE, BA</td>
</tr>
<tr>
<td>BE, BCom</td>
</tr>
<tr>
<td>BE, BSc</td>
</tr>
<tr>
<td>Creative Arts</td>
</tr>
<tr>
<td>BCA-BCom</td>
</tr>
<tr>
<td>BCA-BA</td>
</tr>
<tr>
<td>BCA-BCompSci</td>
</tr>
<tr>
<td>BCA-BSc</td>
</tr>
<tr>
<td>Informatics</td>
</tr>
<tr>
<td>BE, BA</td>
</tr>
<tr>
<td>BE, BCom</td>
</tr>
<tr>
<td>BE, BMath</td>
</tr>
<tr>
<td>BE, BSc</td>
</tr>
<tr>
<td>BCompSc-BSc</td>
</tr>
<tr>
<td>BMath-BCompSc</td>
</tr>
<tr>
<td>Science</td>
</tr>
<tr>
<td>BSc-BA</td>
</tr>
<tr>
<td>BSc-BComp</td>
</tr>
<tr>
<td>Law</td>
</tr>
<tr>
<td>BA-LLB</td>
</tr>
<tr>
<td>BCA-LLB</td>
</tr>
<tr>
<td>BComp-LLB</td>
</tr>
<tr>
<td>BMath-LLB</td>
</tr>
<tr>
<td>BSc(Health Science)-LLB</td>
</tr>
<tr>
<td>BMedSc-LLB</td>
</tr>
<tr>
<td>BCompSc-LLB</td>
</tr>
<tr>
<td>BlnfoTech-LLB</td>
</tr>
<tr>
<td>BE-LLB</td>
</tr>
<tr>
<td>BSc-LLB</td>
</tr>
<tr>
<td>Health &amp; Behavioural Sciences</td>
</tr>
<tr>
<td>BPsysc-BCom</td>
</tr>
<tr>
<td>BSc-BCom</td>
</tr>
<tr>
<td>BMedSc-BCom</td>
</tr>
</tbody>
</table>

Appendix 2

Double Degree Student Guide

1. All double degree students are required to comply with the course requirements for double degrees and with the requirements of the two individual degrees for which they are enrolled.

2. All double degree students are obliged to consult with the Sub-Deans of the Faculties participating in the degree before finalising enrolment.

3. The number of credit points saved by a student in a double degree program may vary due to the prescribed structures of some degrees and may not necessarily be distributed across both component degrees.

4. The designated “owner” Faculty for the degree course are obliged to ensure the student is aware of and has access to (via the Web and in printed University or
General Information

Faculty publications) a course schedule for the double degree.

5. The relevant Sub-Deans shall ensure that the student has a copy of this Guide, assist the student to prepare a study program and plan timetable and workload, and advise on a schedule for further consultation.

6. A student wishing to undertake Honours should note that:
   i. where the component pass degree program is a 3-year degree, an end-on Honours program shall add 48 credit points to the duration of the double degree.
   ii. for an end-on Honours, an “Application to undertake Honours in a Double Degree program” must be checked and signed by the Head of the Department/Program and the Dean/Sub-Dean of the Faculty offering the Honours studies.

Special Consideration

1. Background

This policy has been developed to ensure equity and consistency across the University in the handling of special consideration requests. It applies to all faculties, requiring them to ensure consistent procedures, criteria and results in the handling of requests for special consideration for all forms of assessment.

2. What is special consideration?

Special consideration is a process to help students minimise the impact of certain adverse and unforeseen circumstances on their progression in a degree and their performance in subjects. In some circumstances the application of special consideration will be limited to the remedy of withdrawal without academic penalty; it is not possible for special consideration to compensate for every consequence of misadventure or illness on attendance and participation in a subject. Examples of special consideration in operation are:

(i) the student is given extensions of time to submit work
(ii) the student is given a supplementary exam, in addition to or instead of, the final exam or an in-class or mid-session test;
(iii) the student’s composite result in reconsidered without any additional work being required;
(iv) the student submits additional written work;
(v) the student is permitted to:
   • withdraw without academic penalty
   • make fees-credit arrangements
   • repeat a subject without financial penalty
   • substitute an equivalent subject for a required subject
   • have a fail grade converted to withdrawn
   • have pre-requisite or co-requisite requirements waived.

Reasonable accommodation for a student with a temporary or permanent disability may include any, or all, of the above and, where appropriate, the provision of alternative forms of assessment.

3. Eligibility

Students applying for special consideration must produce supporting documentation, unless this requirement has been waived, which demonstrates that they have:

(i) suffered illness or other circumstances beyond their control which have affected or are likely to affect their academic performance in a subject or which has prevented them from meeting scheduled assessment requirements;
(ii) been unable to sit for the standard examination for religious reasons;
(iii) have validated conflicts between scheduled assessments and other commitments such as their carer’s duties, court appearances, participation in sporting or cultural activities at a national or international level. These conflicts must be notified well in advance and as soon as the need is identified, to the relevant Academic Unit.

4. Criteria for the assessment of applications include:

(i) the magnitude of the impact of the circumstances forming the basis of the application;
(ii) the extent to which the circumstances and their impact were beyond the applicant’s control and the extent of any contributory negligence on the applicant’s part in producing the circumstances or in failing to act so as to minimise the impact of these circumstances;
(iii) whether the consideration sought would in any way unfairly advantage the applicant as against other students enrolled in the relevant course; and
(iv) whether there is independent and temporally valid evidence of the illness or event forming the basis of the application.
(v) whether the consideration sought for a pass or higher result in the relevant subject is of a magnitude that compromises the academic integrity of an award;

---

1 Forms of assessment include, but are not limited to, the following: theses, projects, essays, assignments, oral presentations, participation, in-class and mid-term tests, final exams, laboratory work, field trips and practicums.
2 For example, supplementaries for clinical practicums and field trips will not normally be arranged.
3 Authority to approve refunds of fees or fees credit arrangements rests with the Academic Registrar (or nominee).
4 These guidelines do not cover HECS refunds which are a matter for DETYA.
(vi) the likelihood, based on the student's performance in other aspects of work required for the subject, of the student achieving at least a PC grade in the subject;
(vii) the record of the student in other subjects in which the student is or has previously been enrolled; and
(viii) previous applications for special consideration.

5. Process

5.1 Applications
Applications must be on a standard form, accompanied by supporting documentation and submitted according to the procedures listed in section six of this policy or as otherwise advised in the subject outline or Departmental or Faculty Handbooks.

5.2 Confidentiality:
Members of staff are obliged to preserve the confidentiality of the information contained in applications for special consideration.

5.3 Timing of Applications:
For all forms of assessment students are normally required to seek special consideration before the date scheduled for submission or performance of the assessment item, but no more than five working days after the date when the item was due.

5.4 Applications for special consideration after the declaration of grades:
In exceptional circumstances students may be unable to apply for special consideration before grades have been declared. In these cases students may seek special consideration to have the fail grade changed to withdrawn. Students must submit a case to the relevant Sub-Dean in accordance with the procedures outlined in 5.1 and 5.4 and specifically addressing the issue of their failure to make an application within the time limit. Lack of awareness of these rules will not be grounds for special consideration. Applications must be made within one year of the declaration of grades. After graduation no applications will be accepted.

5.5 Supporting documentation:
(i) a medical certificate, stating in reasonable detail:
   • the dates of any relevant consultations or attendances;
   • if relevant, the general nature of the complaint and the treatment; and
   • a specific statement of the opinion that, as a result of the complaint or treatment, the student is, or was, unfit to complete the required assessment or examination on or by the date specified; (medical certificates which do not contain all this information will not be accepted); or
(ii) a letter from the University Counselling Service or a professional counsellor of equivalent standing setting out the general nature of the problem affecting the student, and the opinion of the person signing the letter, that the student, because of the problem, is or was unfit to complete the required assessment or examination on or by the date specified; or
(iii) a declaration setting out the facts upon which it is suggested that special consideration should be given, attaching any supporting documents.

5.6 Scheduling of Supplementaries and Other Work
The time period available for:
(i) the completion of assessment items for which an extension has been granted; and
(ii) the scheduling of supplementary exams is normally within five weeks of the relevant Examination Committee meeting.

In exceptional circumstances, a further five weeks may be available but the total time allowed must not exceed ten weeks after the Examination Committee meeting. If a student cannot sit for a supplementary examination or meet an extended deadline within that period, a fail grade will be awarded or approval may be granted to withdraw the student without academic penalty.

5.7 Penalties Applying for Late Submission:
If students fail to apply for an extension, or the extension is refused, they may submit their work late. In such cases penalties (loss of marks) will normally apply. No work will be accepted for marking after the work submitted by other students for that assessment item has been returned. After this, extensions will be granted only in exceptional circumstances and on the basis that new work will be set.

5.8 Responsibility:
Students must ascertain whether their request for special consideration has been granted. They must include a contact address with their application to the relevant academic unit.

If granted:
a supplementary examination:
students must be available to sit for the examination at any time immediately following the application (providing that five working days notice has been given); and
extensions of time on forms of written assessment:
students must hand in the work on the new submission date which has been advised in writing by the academic unit.

5.9 Form of Supplementary Assessment:
This can take any form that is appropriate in the circumstances. However, the student must be informed in advance concerning the method of assessment to be used, particularly if there is to be any departure from the format announced at the start of the subject, or from that used in the standard examination. This information must be conveyed to the student in writing. Faculties or academic units may determine that supplementary examinations may be oral, but should notify students in advance if this is the

5 With the exception of items ten percent or less.
case. Students must accept the form of supplementary assessment determined by the academic unit.

(i) where a written examination is conducted, academic units will ensure that, so far as possible, the security procedures and the venue for the examination, are as similar as possible to those followed in the standard examination periods;

(ii) where an oral examination is conducted, a record of the questions asked and marks awarded must be kept in the unit;

(iii) students should keep originals and copies of all essays, assignments or reports submitted in any subject, as special consideration may involve the reconsideration of that work, and they must be prepared to resubmit such work immediately upon request.

(iv) supplementaries for in-class and mid-session tests are covered by Sections 6.4, 6.5 and 6.6.

6. Special Consideration for all forms of assessment

6.1 Supplementary Examinations

For exams supplementary to the final exam:

(i) A written application, together with supporting documentation, must be lodged normally no later than seven days after the examination, with Student Administration which will be responsible for transmitting the request to the appropriate academic units.

(ii) Students must be advised in writing whether a supplementary examination has been granted within seven days of the receipt of the application or not later than seven days after the relevant Examination committee.

6.2 Timing of Supplementary Exams:

Students granted special consideration for examinations will normally be permitted to sit for:

(i) a supplementary examination after the scheduled examination period; or

(ii) the standard examination for the subject, provided that during the time other students are sitting for that examination and until the time the student sits for the examination, the student:

- is under the constant supervision of a person approved by the University; and

- sits for the examination as soon as possible after the scheduled examination time; or

(iii) the standard examination before the scheduled examination time having signed a statutory declaration not to disclose the contents of the examination paper and having agreed to return the paper with their script.

(iv) an early examination in cases of serious medical or personal circumstances. It will not normally be granted on grounds such as clashes with recreational activities, work or family commitments, participation in sporting or cultural activities below national level and travel arrangements.

6.3 Honours Theses:

(i) applications must be on the standard form providing detailed reasons and supporting documentation such as medical certificates and any application for confidentiality;

(ii) applications must be lodged with the subject co-ordinator;

(iii) a panel of at least two staff, one of whom should not be currently teaching the applicant, must consider the application;

(iv) the panel may elect to interview the applicant;

(v) the panel’s decision on an application, together with brief written reasons addressing relevant standard criteria, shall be kept on file and communicated in writing to the applicant;

(vi) the panel’s decision shall be forwarded to the relevant course examiners meeting;

(vii) where the reasons for the application are so personal as to warrant confidentiality and the student has requested strict confidentiality;

- All panel members shall still be apprised of all details of an application.

- Only the decision shall be forwarded to the exam committee.

(viii) copies of each application, reasons, decisions and corresponding recommendations, reasons and decisions shall be retained for a minimum of three years following the final decision;

(ix) the applicant will be informed in writing, within five working days of receiving the application, whether the application is successful. Where the special consideration granted is an extension that written advice will include the length of time of the extension. Where the special consideration granted is to resit an
Tuition fees are normally set as an annual fee for a course and are charged per credit point of enrolment. Tuition fees are subject to annual review. Students who enrol in a course over more than one year will be charged in each year of enrolment at the approved rate for that year. For

International students fees are fixed for the duration of the course, provided the course is completed in the minimum time, and are fixed at the level quoted in the final offer letter. Fees for any study after the minimum time has lapsed will be payable at the level set at the commencement of each subsequent year. International students are required to pay a full session of fees in their first session of enrolment.

Applicants who have a conditional offer, or who request a change in their offer in any way, will be subject to the fee quoted in the final unconditional offer.

Tuition fees must be paid each session before enrolment can be completed for that session.

An instalment plan may be available for the payment of tuition fees. Where available, fifty percent of the tuition fee for that session plus an administration fee (currently $80 per session) is due before enrolment can be completed for that session, with two instalments of 25% of the tuition fee during the session. For International students an Instalment plan may be available to enrolling students who experience hardship in paying fees. Fifty percent of the tuition fee plus an administration fee (currently $100) is due prior to the commencement of session, with two instalments of 25% of the tuition fee due during the session.

2. Transfers & Deferments

Students who transfer from one course to another are liable to pay the fee prescribed for the new course for that year. A student who defers, or takes leave of absence from a course (not applicable to International students), or recommences a course following an unapproved absence, will be subject to the fees prescribed for the course in the year of recommencement.

3. Refunds

All applications for a refund must be accompanied by the required documentary evidence. Any refund approved will only be paid to the applicant/sponsor. For international students applications for a refund must be submitted on the appropriate application form and any refund approved will only be paid to the applicant, and will only be made in the student’s country by Australian Dollar Draft.

A total refund will be made before the commencement of study when:

An offer of a place is withdrawn by the University of Wollongong. (Unless the offer was made on the basis of incorrect or incomplete information being supplied by the applicant, in which case 80% of the fee will be refunded.)

The University of Wollongong is unable to provide the course for which the student has applied and/or the subject (not applicable to International students) in which the student requests enrolment.

The student is not permitted to enrol or re-enrol because the relevant requirements (usually course or subject prerequisites, or the terms of a conditional offer) are not satisfied.

General Information

Tuition Fee Policy

The University of Wollongong fees policy applies to both commencing and re-enrolling students.

1. Course Fees

Tuition fees are normally set as an annual fee for a course and are charged per credit point of enrolment. Tuition fees are subject to annual review. Students who enrol in a course over more than one year will be charged in each year of enrolment at the approved rate for that year. For

Exam or test, the advice will specify the time and venue of the repeat exam or test.

6.5 Work between 10% and 30% of total assessment:

(i) applications must be on the standard form providing detailed reasons and supporting documentation such as medical certificates;

(ii) all applications must be lodged with the subject co-ordinator (or nominee) who will retain a copy of the application and the decision for twelve months;

(iii) applicants will be informed in writing within five working days of receiving the application whether the application is successful. Where the special consideration granted is an extension that written advice will include the length of time of the extension. The subject co-ordinator or nominee must record the decision and confirm this with the student. Where the special consideration granted is to resit an exam or test, the advice will specify the time and venue of the repeat exam or test.

6.6 Work worth 10% or less of total assessment:

(i) applications must be made to the subject co-ordinator either electronically or on paper following the procedures specified in the subject outline.

(ii) the subject co-ordinator will advise students of the outcome according to the procedures specified in the subject outline.

6.7 Decision

Acceptance or rejection of an application for special consideration is determined by:

(i) the Head of Department concerned or a member of the academic staff of the Department designated by the Head for the purpose; or

(ii) the Departmental Assessment Committee; or

(iii) in a Faculty not made up of separate academic units, the Associate Dean, on the advice of the examiners for the subject or course co-ordinator, and/or year director, as appropriate.

7. Appeal

Students who are not satisfied with the result of their request for special consideration may appeal in writing to the relevant Dean within 14 days of the giving of the decision by the academic unit.
General Information

The applicant is unable to obtain a visa from an Australian Diplomatic Post.

A **partial refund** of tuition fees will be made when a student is unable to continue study due to serious illness. Students may elect to credit the full fee over to another session for up to one year.

Partial refunds for applications received before the commencement of a session will be 80% of the tuition fee.

Partial refunds for applications received before the census date or first quarter of a non-standard session will be 50% of the tuition fee; **after this date fees are not refundable**.

International students who withdraw from subjects prior to the international students' census date will have their tuition fee credited to the next session.

Where an International student withdraws from a course the Department of Immigration and Multicultural Affairs will be advised.

4. Permanent Resident Status (International Students only)

A total refund of fees will be payable if the student has:

i) Obtained permanent resident status by the international students' census date for that session and a written request for change of status is received by the Academic Registrar by that date; and

ii) Satisfied Section 41 of the Higher Education Funding Act 1988, that is, has completed a HECS Payment Options Form by the census date.

Permanent resident status is recognised from the date stamped on the student’s passport.

5. Penalties for Non-Payment & Reinstatement Fee

Any student who is indebted to the University and fails to make a satisfactory settlement of this indebtedness upon receipt of due notice ceases to be entitled to membership and privileges of the University. Such a student is not permitted to register for a further session, to attend classes or examinations, or to be granted any official credentials. Enrolment will be cancelled when fees have not been paid in full by the due date. Access to University facilities (email, library) will be withdrawn, examination results will not be provided, and graduation will not be permitted for students who are indebted. Re-enrolment in the next session will not be permitted for students who have fees outstanding. Indebtedness to the University includes the non-payment of charges, late charges, library fines, any arrears in rent or other financial obligations resulting from an accommodation agreement entered into with the University, and any indebtedness incurred as a result of any other financial obligation to the University.

When fees are not paid in full by the due date, a late fee of $200 will be charged. For International students the late fee is $450.

In order for an enrolment to be reinstated a student must pay all outstanding amounts, including late fees, plus a Reinstatement Fee of $100.

6. Transfer of International Students to other Institutions

The Department of Immigration and Multicultural Affairs has a policy which prevents international students from transferring to another institution within the first 12 months after their arrival in Australia or, if the course is less than twelve months duration, students must remain at the original institution for the duration of their course. For further information on this policy and the process for applying for permission to transfer on the grounds of exceptional circumstances, students should contact the Department of Immigration and Multicultural Affairs.

7. Special Circumstances

The Academic Registrar may consider special cases where the fees policy does not adequately encompass individual circumstances. Such cases must be received in writing and include supporting documentation, including a recommendation from either the Dean of Students or the Faculty.
Codes of Practice

The University has Codes of Practice which govern the conduct of its members, both staff and students.

The current Codes are:

- Students ...................................................................... 55
- Teaching & Assessment ............................................ 56
- Practical Placements ................................................ 61
- Supervision .................................................................. 62
- Research ...................................................................... 68

Code of Practice - Students

Teaching at the University involves the active participation of students who share with staff the responsibility to ensure that teaching is conducted efficiently and effectively, enabling students to achieve their maximum potential. A separate Code of Practice - Teaching & Assessment sets out the responsibilities of staff to the students they teach and covers every aspect of the presentation, delivery and assessment of subjects.

1. Responsibilities of Students

   (i) become familiar with the rules governing the degree in which they are enrolled;
   (ii) check their enrolment status at audit dates in each session, and inform themselves of deadlines for withdrawal/ addition of subjects;
   (iii) abide by the policies and practices of the Faculty and/or of the Academic Unit from which they take subjects, as explained in the subject outline handed out by the end of the first week of lectures for every subject;
   (iv) take the initiative and consult with appropriate academic staff when problems arise (see below Reviewing Assessment Marks and Grades and Late Submission of Work);
   (v) maintain satisfactory academic progress as set out in the degree rules;
   (vi) meet deadlines for work to be submitted as set out in the subject outline;
   (vii) attend all lectures, tutorials, seminars and practical work as stipulated in subject outlines for subjects in which they are enrolled;
   (viii) submit original work for assessment, without plagiarising or cheating, abiding by the University’s policies on Plagiarism (see below) as set out under University Policies, and in Faculty handbooks and subject guides;
   (ix) abide by the Rules for Student Discipline, Rules for Campus Access & Order, Rules for Governing the Use of University Computing Facilities, Code of Conduct - Library and the Code of Practice - Practical Placements; and
   (x) respect the diversity of members of the campus community.

2. Responsibilities of Staff

   Teaching staff of the University have responsibilities towards the students they teach, including preparing and presenting material at an appropriate standard within the resources available; informing students, by the end of the first week of formal contact for each subject, of the requirements for the subject and of the method(s) of assessment to be used for the subject; being available for reasonable periods of time during most weekdays of session, the study weeks and the examination periods so that students may discuss aspects of the subject with them; assessing students’ work fairly, objectively and consistently across the candidature for the subject; being available to students after marked material has been returned and after the final results have been released so that any student who seeks it can be shown how his/her result was determined.

3. Plagiarism

   Plagiarism is the use of another person's work or idea as if it is your own.

   The other person may be an author, critic, lecturer or another student. When it is desirable or necessary to use other people’s material, take care to include appropriate references and attribution - do not pretend the ideas are your own. Be sure not to plagiarise unintentionally. The University’s practice concerning plagiarism is set out under "Acknowledgment Practice/Plagiarism".

   Plagiarism has led to expulsion from the University.

4. Subject Information

   In the first week of lectures for every subject, students will receive written information about the subject which will provide details of the requirements of the subject, the method of assessment and all other relevant information about the subject.

5. Required Reading

   The information sheet referred to above will also contain information about the text books for the subject, the reference books and any other required reading. As academic staff are constantly keeping up to date with new developments in their areas of interest, students should be aware that other relevant material that becomes available during the period in which the subject is taught may also be introduced as required reading.

6. Reviewing Assessment Marks & Grades

   Result notices are distributed to students at the end of each session setting out the aggregate mark and grade awarded for each subject completed in that session. If students wish to have their mark reviewed they must approach staff listed below in order given, progressing to the next line if they are unhappy with the resolution achieved at that level:
General Information

1. The Tutor/Marker
2. The Subject Co-ordinator
3. The Head of Department (Program or School)
4. The Dean of the Faculty
5. The Dean of Students

Marks for essays and assignments can also be reviewed under this procedure if students feel that the mark awarded is not a true indication of their performance. As required by the Code of Practice - Teaching and Assessment staff are always available to discuss students' work and to explain how the assessment was determined. Students should consult Appendix 6, Section 1.5 of the Code of Practice - Teaching and Assessment for further information on this matter.

7. Late Submission of Work

Extensions of time to submit material for assessment can only be granted in exceptional circumstances such as illness or misadventure. Written notice is given at the beginning of lectures for each subject of the requirements for the subject and this information includes the dates for the submission of work for assessment. "Pressure of work", either from employment or from other subjects, is not an acceptable reason for seeking an extension of time.

Code of Practice - Teaching & Assessment

- The University of Wollongong is committed to creating and sustaining an effective environment for learning, recognising that the aim of University teaching is to enable students to reach their highest possible level of learning during their time of enrolment, and to prepare them for life-long learning. In practice this means that staff collectively are responsible for ensuring that the design, management and teaching of their subjects facilitate effective learning.

- The University of Wollongong is committed to equitable treatment of all students because all university teachers have a professional responsibility to teaching their subjects in such a way that all students, regardless of their background or characteristics, have an equal opportunity to learn and to demonstrate that learning, in accordance with the aims of the subject. Good teaching practices will vary in relation to context, discipline and the diversity of the student body.

It follows, therefore, that:

- The University of Wollongong aims to ensure congruence between the stated student outcomes, the content and the assessment methods of all subjects.
- Students at the University of Wollongong will receive adequate and prompt feedback on their assessed work as set out in Feedback on Assessment (Appendix 1).

1. Responsibilities

1.1 Institution

The University of Wollongong values good teaching practice and is responsible for providing a quality learning environment. It does so through its endorsement of ethical policies, fair and open practices on assessment and supervision and rigorous procedures for the introduction of new and review of existing subjects.

1.2 Heads of Academic Units

The Head will ensure that:

1.2.1 academic staff are familiar with relevant University policies, including this Code;
1.2.2 academic staff provide subject and course documentation which comply with University policy and provisions of this Code;
1.2.3 assessment methods and practices comply with University policies and provisions of this Code;
1.2.4 academic staff carry out all assessment fairly, objectively and consistently across the candidature for the subject;
1.2.5 group activities are assessed by means which will allow the real contribution of each member of the group to be determined;
1.2.6 academic staff are available to students for consultation;
1.2.7 the academic unit keeps a copy of every subject outline distributed by staff in each subject. This file will be available to all students and staff;
1.2.8 academic staff abide by Occupational Health & Safety regulations while conducting classes;
1.2.9 there are consultation hours for subjects taught by staff who are not full-time;
1.2.10 all students undertaking Double Degree administered by the Faculty receive a copy of the Double Degree Student Guide and advice on programs of study at enrolment and regular advice on progress; and
1.2.11 unclaimed assessment items worth 20% or more of the aggregate mark for the subject must be retained for a period for one month after the end of session; those worth less than 20% for one month after the date of submission. Examination papers should be kept for a period of twelve months following the end of the exam period.

Guidelines for Effective University Teaching, The University Teacher and Effective Teaching Practice, Australian Vice- Chancellor's Committee, April 1993, Canberra, p.2.

ibid, p.2.
1.3 Staff
Academic staff carry out their teaching responsibilities under the authority of the Head. Staff have the following responsibilities:-

1.3.1 to identify the student outcomes of the subject clearly and in terms which enable students to understand what skills and knowledge they are expected to achieve, and what values and attitudes will be fostered by satisfactorily completing the subject; these student outcomes must be included in the Subject Outline (Appendix 3);

1.3.2 to assess students' work fairly, objectively and consistently and to provide adequate feedback on performance (Appendix 1);

1.3.3 to prepare and present subject material at an appropriate standard and within the resources available;

1.3.4 to provide, where appropriate and possible, opportunities for students to participate in identifying their learning needs and planning their learning experiences and ways in which they will be assessed;

1.3.5 to inform students in writing by the end of the first week of formal contact for each subject of the requirements for the subject including the method(s) of assessment to be used, or no later than the second week in cases where assessment methods and practices are to be finalised after consultation with the enrolled students. (Essential requirements are listed in Appendix 3 Subject Outline Checklist);

1.3.6 to ensure that no change is made to assessment methods or weightings after the second week of session without the consent of every student enrolled in the subject. The subject co-ordinator must seek approval from the head of the academic unit of any proposed changes in advance and the way in which students are to be notified;

1.3.7 to be available at least four hours a week over at least two days (these times to be publicly displayed in the academic units and notified in the subject outline) during session, so that at reasonable times students may discuss aspects of the subject with staff, taking into account the needs of part-time students3; to be available to students after marked material has been returned and after the final results have been released, so that students who seek information can be shown how their result was determined;

1.3.8 to make reasonable accommodation within the established teaching environment for students with a disability;

1.3.9 to notify the Head of the academic unit or Dean as appropriate, of potential or actual conflicts of interest;

1.3.10 to maintain the principles set out in the University of Wollongong Privacy Policy, chiefly the confidentiality of personal information including marks;

1.3.11 to attend meetings of the Assessment Committee to advise the Head on marks and grades;

1.3.12 to ensure that all assessment work and other teaching commitments have been completed and that marks have been considered by the Assessment Committee of the Academic Unit before departing on discretionary leave. Another member of staff of the unit must be available to answer any subsequent enquiries about the subject; and

1.3.13 to exercise their responsibilities under the Occupational Health & Safety legislation and Discrimination legislation.

1.4 Students
Students have a responsibility to:

1.4.1 comply with the requirements of assessment;

1.4.2 comply with the document 'Acknowledgement Practice';

1.4.3 submit for assessment their own individual and unassisted work, except as otherwise permitted; and

1.4.4 in general respect the rights of other students and staff engaged in the teaching process and to conform to the 'Code of Practice—Students' which details student responsibilities.

2. Principles Governing Assessment Practice

2.1 Purposes of Assessment
Assessment is an essential part of the teaching and learning process. Properly selected assessment tasks signal the importance of developing the attributes of a Wollongong graduate through particular content, concepts and skills. They influence approaches to study and help students to allocate their time appropriately. Constructive and timely feedback on assessment helps students to gain a sense of achievement and progress, an appreciation of the performance and standards expected in a particular discipline or professional area, and to learn from their endeavours.4

Staff need to consider the functions of each component of assessment, selecting methods and practices which ensure that these can be achieved. Information about these functions should be communicated to students. The functions are:-

2.1.1 to judge performance, by awarding marks which indicate whether and how well a particular student has attained the stated learning outcomes;

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3 Senate Resolution (S3/47) 21 July 1993. (ii) that academic staff be required to place on their office doors a notice indicating at least four hours per week, over at least two days, when they will be available for consultation with students without appointments or come to some other arrangement for publishing availability as agreed with the Head of Department.

4 Guidelines for Effective University Teaching, The University Teacher and Effective Teaching Practice, Australian Vice-Chancellor's Committee, April 1993, Canberra, p.3.
2.1 General Information

2.1.2 to determine whether a particular student is sufficiently well-prepared in a subject area to proceed to the next level of instruction;

2.1.3 to provide feedback to students which indicates levels of attainment, and to indicate and diagnose misunderstandings and learning difficulties,

2.1.4 to provide feedback to teaching staff to indicate areas in which students are experiencing difficulties, and to identify and diagnose ineffective teaching; and

2.1.5 to promote learning.

2.2 Good Practice in Assessment

2.2.1 Assessment should promote learning and improve student performance.

2.2.2 Assessment should be in a form which allows the determination of how well each student has achieved measured against the stated student outcomes of that subject and provides appropriate feedback.

2.2.3 Weightings for each assessment component, and deadlines for submission of material for assessment should take into consideration the stated student outcomes of the subject and the required function of the assessment.

2.2.4 Feedback on performance be provided to students before mid-session, in time for withdrawal without penalty, and to improve performance before further assessment; undue delay in providing feedback is unacceptable practice.

2.2.5 Material submitted for assessment which is also intended to inform students and/or which is relevant to the final examination for the subject, should be marked and returned before the study week before the formal examinations.

2.2.6 Assessment should be based on more than one piece of work and should require demonstration of achievement in a range of outcomes.

2.2.7 As part of the assessment in every subject, students should produce some written work and at least one piece of individual work from which the unaided capability of each student can be assessed.

2.2.8 No component of assessment should count for more than 70% of final mark, except in subjects designated research project.

2.2.9 Assessment methods should provide reasonable accommodation for students with disability.

2.2.10 Students may ask for a review of any piece of assessable work. Such review may involve a re-mark of the piece of work. In the case of oral presentation this is subject to 2.4.5(ii).

2.2.11 Group work may not constitute more than 50% of assessment.

2.3 Administration of Assessment

2.3.1 The Role of Heads of Units

(i) Heads of Academic Units have general responsibility for the assessment process but will be advised by the Assessment Committee which comprises all academic staff of the unit.

(ii) The Head, after receiving advice from the Assessment Committee, shall determine:

- the methods for assessing the performance of students, and
- the standard of achievement required for the approved grades of performance according to the provisions of Course Rule 010 Assessment.5

(iii) While attendance at prescribed classes is not a component of assessment in any subject, the Head may prescribe that participation in class activities be a consideration for determining pass or fail.

(iv) The Head may prescribe that attendance at specified classes be a mandatory requirement for satisfactory completion of a subject and in such cases mechanisms must be in place to ensure fulfilment of any mandatory requirements.

2.3.2 The Role of the Unit’s Assessment Committee

The Assessment Committee for each academic unit should advise the Head of the Academic Unit on assessment used in the Unit including all major components of assessment for each subject, particularly examination papers. It has responsibility for reviewing examination papers to determine whether the requirements set out in Section 2.4 below are satisfied and, if not, to collaborate with relevant examiners to ensure that appropriate amendments are made.

In advising the Head on the final mark for each student in a subject, the Assessment Committee exercises academic judgement by:

(i) reviewing the results of assessment of each student and the grade distribution for each subject;

(ii) ensuring that any modification or scaling of marks (as advised to students in the subject outline) has been applied systematically and consistently; and

(iii) ensuring that the marks presented to the Faculty Examination Committee for determination and declaration properly reflect the levels of performance of individual students.

2.3.3 Determinations of Marks and Grades

(i) Students must be advised in the subject outline how all marks and grades are to be determined.

(ii) Students must be informed of their numerical mark for every component of assessment in the subject.

5 Course Rule 8.1, General Assessment Rules, 1996, General Information Calendar, p.57:
Final examination marks can be obtained on application to the academic unit.

(iii) Unless otherwise approved, the final assessment mark for each student in a subject shall be determined on the scale of 0 to 100% by the methods set out in the subject outline. Examiners should ensure that marks are awarded appropriately across the range.

(iv) Students must be informed in the subject outline whether any marks gained in part or all of the assessment will be modified or scaled and what the system of modification or scaling will be.

2.3.4 Reviewing Assessment Marks and Grades for Assignments, Mid-Session Quizzes and Final Examinations

(i) If students have grievances concerning assessable work they should approach the marker with their request for explanation and/or remarking. If the grievance is unresolved they should contact the subject co-ordinator, Head of Academic Unit, then Sub-Dean, OR Dean of Faculty, then Dean of Students, in this order, the next person only after receiving an unsatisfactory resolution from the previous person on the list. Students may consult the Dean of Students at any time for advice about these procedures.

(ii) If a student believes there has been a lack of due process in the reassessment procedures outlined above, such students may formally appeal, within two weeks of receiving the response from the Dean, to the Academic Review Committee to review the matter. The letter of appeal must state fully the reasons for the appeal and include any relevant documentary evidence to support such appeal. Please note, however, that the Committee's role is to ensure that the proper procedures have been followed in relation to the assessment of the subject—the Committee's role is not to reassess the academic quality of the work.

(iii) Special consideration is available to students whose work is affected by documented illness or misadventure. (Please refer to University Policy on Special Consideration).

2.4 Assessment Processes

2.4.1 Administration and Timing of Examinations

The University conducts examinations on behalf of the Academic Units during specified periods at the end of each session, as set out in the University Calendars. The organisation of these examinations is the responsibility of the Vice-Principal (Administration). Additionally, academic units may conduct examinations during the scheduled teaching periods, during the University examination periods or at other times.

Other tests and practical/laboratory examinations may be conducted at other times during the session, provided:

(i) students are advised at the beginning of the session that the test/examination will be held during one of the normal teaching periods;

(ii) the time for the test/examination does not exceed the normal teaching period;

(iii) the subject outline must inform students about the intention to conduct such an examination. Information about the date, time and place of the examination must be made available to the students as early as possible and confirmed, particularly should the examination be scheduled at an unusual time such as a Saturday;

(iv) that when held during a scheduled teaching period, the total time devoted to the examination must not exceed the scheduled class time, unless it is possible, with the unanimous consent of the class, to arrange additional time;

(v) that only with the express permission of the Pro Vice-Chancellor (Academic) shall an examination be conducted during a study recess period, and request for that permission must be made before the beginning of the relevant session; students must be notified;

(vi) Faculties offering subjects which enrol students from other faculties where the study recess is timetabled for a different week must make special arrangements for examining students which does not deprive them of their study recess;

(vii) alternative examination arrangements for students with special needs comply with the University's requirements for reasonable accommodation.

2.4.2 Submission of Examination Results

There are procedures laid down by the University for submitting grades to the Faculty Examination Committee and these are circulated to Academic Units each session. Although these procedures make provision for withholding results in certain circumstances (see below), it is University policy that the Examination Committees determine a grade for every student in every subject. Except in rare instances, every student should know at the time of release of examination results of their performance in every enrolled subject. The only acceptable reasons for withholding results are as follows:

(a) 'WM' grade: given where there are acceptable medical or compassionate reasons ('pressure of work' alone is not an acceptable reason);

(b) 'WA' grade: given where, though the work is submitted on time, there are unavoidable delays in assessing the material (e.g. delayed response from an external examiner);

(c) 'WO' grade: given where it is in the best interests of the students to withhold an autumn session result until the end of spring session.
General Information

Extensions of time to submit any material for assessment (including in (a) above) should be given only where there are clearly extenuating circumstances. It is unfair to those who have striven to submit work on time for any student to be given more time to complete work without a compelling case. Each case should be scrutinised closely by the Unit and not simply left to an Examinations Committee to ensure fairness. If an Examinations Committee does not accept the reason given for withholding the result, it will declare a FAIL.

‘Pressure of work’ (i.e. workload rather than a job transfer after the specified withdrawal date) should not be accepted as a reason for an extension.

2.4.3 Examination Papers

The Head of Unit must approve all examination papers. Papers should:

(i) be appropriate to the stated student outcomes of the subject;
(ii) contain questions which are fair, appropriate to the level of the subject and answerable;
(iii) contain instructions and questions which are clear, concise, unambiguous and free from error;
(iv) use commonly accepted terminology and language appropriate to the subject; and
(v) be of a duration appropriate to the demands of the questions.

2.4.4 Documentation of Assignment Receipt and Return

Academic units must provide a system for recording the submission and return of work, to safeguard against claims of non-receipt and non-return. The recommended approach is to use cover sheets with two tear-off sections, one to provide a receipt for the student upon submission of the work to which the cover sheet is attached, and the other to provide a receipt for the unit upon return of the marked work to the student. Any alternative system must provide safeguards against claims of non-receipt and non-return.

2.4.5 Oral Presentations

(i) Staff who allot marks for oral presentations must set out the criteria for marking in the subject outline. These criteria should be reproduced on a marking sheet given to every member of the class each time an oral presentation is made. Marks awarded by students may or may not be used to determine the mark given to the student, but the sheets will be kept by the tutor and used as part of any reassessment requested by the presenter.

(ii) Where the oral presentation is 10% or less of the aggregate mark these procedures become mandatory.

(iii) Where marks are allotted for class participation, at each tutorial, staff should enter in a notebook their comments on student’s participation. This running commentary forms the basis of the student’s final mark for participation and for reviewing the student’s mark if requested.

2.4.6 Electronic Submission of Assignments

(a) Where assignments must be submitted via email the University will ensure that:

Students

(i) have access to appropriate hardware and software;
(ii) have a guarantee of security at least as good as current procedures for submitting hard copy;
(iii) have a receipting procedure;
(iv) have an undertaking that they can submit hard copy if they are unable to access appropriate equipment except where the electronic submission is part of assessment; and

Staff

(v) establish procedures for receipting and recording submission, for downloading (if necessary) or for marking on screen and include instructions on these procedures in subject outlines.

Academic Units

(vi) ensure that as part of assessment procedure, instructions are provided to students as to the format for submission and the appropriate software;

(vii) set up the appropriate IT infrastructure for reception and marking of assignments to be determined at Faculty level or by the Faculty Department;

(viii) provide written instructions (handbook, subject outline or website) to students about practical matters such as ensuring that student’s name and number and short titles are on every page of the emailed assignment.

(b) Students may not e-mail assignments without prior approval from the subject co-ordinator;

(c) Students may not fax assignments without prior approval from the subject co-ordinator.

2.4.7 Acknowledgement Practice

(i) The document Acknowledgement Practice is available on-line to all students and in the Student Guide. A shortened version shall be included in every Subject Outline. This sets out general information to help students become aware of their responsibilities in ensuring that they do not
ii) Subject Outlines should direct students to the document Acknowledgement Practice and provide additional information about acknowledgement methods specific to the subject and to the relevant academic unit.

(iii) Students must be advised about penalties that the relevant committee in the faculty or academic unit may apply in cases of proven plagiarism.

The Appendices referred to in this document are listed below:

Appendix 1: Feedback On Assessment
Appendix 2: Group Work
Appendix 3: Subject Outline Checklist

If you wish to refer to these Appendices, they are available at:
http://www.uow.edu.au/about/teaching/teaching_code.html

Code of Practice - Practical Placements

Introduction

The Code of Practice - Practical Placements sets out the current policies and practices relating to the workplace experience and other practical training requirements which comprise the whole or part of subjects offered at the University of Wollongong. Its purpose is to make clear what is expected from students, supervisors and the University, and to minimise difficulties caused by misunderstanding or poor communication. The Code does NOT apply in its entirety to placements or work experience, such as professional experience requirements not formally assessed, but which students must complete before becoming eligible for the award of a degree. However, academic units responsible for such placements or experience should apply those parts of the code that are appropriate.

A practical placement is a learning experience which enables students to develop their knowledge and skills. Where students have a disability or personal difficulty which may affect their capacity to undertake the placement, the University will discuss the nature of the problem, but where it cannot be accommodated the University will assist the student in exploring alternatives.

Definitions

In this Code of Practice:

- 'placement' includes any element of work, observation and experience in a workplace outside the University which is a requirement of any [course or] subject offered by the University;
- 'placement co-ordinator' means the member of the staff of the University responsible for supervision of the experience or placement;
- 'supervisor' means the person in the workplace responsible for the direction of the student during the placement.
- 'client' means any person or persons to whom a service is being provided.

Responsibilities of the Student

Students will:

- behave ethically and in a manner which upholds the good name of the University of Wollongong.
- adhere to the professional ethics and codes of conduct appropriate to their discipline.
- be familiar with the goals and requirements of the practicum.
- sign a document acknowledging that they have read and agreed with the Code of Practice—Practical Placements.
- advise the placement co-ordinator of any fact which may affect their capacity to undertake the placement, such as a disability or personal difficulty. Students should be aware that the Disability Liaison Officer is legally obliged to disclose to the Placements Co-ordinator any disability that could place the student or the public at risk during a placement.
- keep information gained about clients from any sources in strictest confidence.
- actively participate in the management of their placement program.
- contact placement site prior to their first day on placement and introduce themselves to the supervisor.
- consult with supervisor with regard to accommodation and arrange own accommodation and travel. Students must meet the costs of these arrangements.
- ensure that all documentation on progress is made available to supervisors on progressive placement sites.
- ensure that the work or function is completed in a timely manner to satisfy assessment requirements of the university and supervisors.
- be punctual and inform their supervisor and Department if they will be late or cannot attend the placement for any reason.
- work the hours specified by the supervisor (or by a specialist if the student has a disability). If there is no specific agreement, students will work the normal hours of other staff in that workplace. Where more than 8 hours is worked on any one day, students are entitled to take time in lieu for the additional time, at a time negotiated with the supervisor.
- provide a medical certificate for absences of 2 or more days to the supervisor and the Department.
General Information

- report all absences to the Placement Coordinator. If significant absence affects progress of the student, then additional time on the placement may be required.
- adhere to policies and procedures of the placement site.
- use resources available at the placement site for the purposes they are intended.
- take responsibility for one’s own health status and, if necessary, take appropriate action/care to protect the well being of clients.

Responsibilities of the Supervisor

The supervisor will:

- ensure that students read the Code of Practice-Practical Placements.
- act as a role model introducing students to acceptable professional behaviour.
- adopt the role of helper and facilitator of learning.
- provide a positive learning environment.
- provide a variety of learning experiences in keeping with the placement requirements.
- clarify aims and expected outcomes of the placement with the student.
- assist the student in identifying resources.
- arrange regular and sufficient interviews with the student to discuss progress or difficulties.
- where necessary, investigate accommodation options for students and assist them in arranging accommodation and travel.
- arrange and provide a safe work environment.
- arrange and provide adequate work space.
- orient students on the first day of the placement to reduce the student’s anxiety about working in an unfamiliar environment.
- make adequate observations of the student’s work and provide continuing feedback, both verbal and written, to ensure learning progress. Where appropriate, documents provided by the University should be used for this purpose.
- report on student progress using documentation provided and notify the Placement Coordinator as soon it becomes apparent that the student is having difficulties meeting the placement objectives.
- evaluate the supervision process with students.

Responsibilities of the Placement Coordinator & University

The Placement Coordinator will:

- organise and plan the placement program with students and supervisors and negotiate on aspects of student progress and assessment.
- facilitate placement contracts with sites where necessary or desired.
- be in regular contact with placement sites and approve each site as appropriate.
- be accessible by telephone for communication on placement issues.
- if necessary, mediate between supervisors and students on placement issues.
- provide information on placement requirements. This may be in the form of a ‘Supervisor’s Practical Placement Manual’ and a ‘Student Practical Placement Manual’ or other written guidelines.
- evaluate the placement component and report to the appropriate Faculty or Departmental Committee of the University on progress and developments.
- report to the university on any relevant assessment of students in this subject where the practicum is an assessable component of the course.

The University will:

- insure students to cover them against injury while on practical placement.
- advise students enrolled for programs in Health of the State Government requirement for criminal record checks to be conducted by the New South Wales Police Service prior to any clinical, practical or employment placement in the New South Wales Health Care System.
- advise students enrolled for programs in Education of the State Government requirement for criminal record checks to be conducted by the New South Wales Police Service on all prospective employees/individuals who will access schools on a regular basis once eligible for employment.

Code of Practice - Supervision

Preamble

Research training at a University involves the active participation of both staff and students. The responsibility to ensure that research is conducted in the most beneficial, efficient and effective manner is shared by the University collectively, its Academic units, its staff, and its students. All four parties are expected to work towards completion of the thesis within the time frame of DETYA funding.

The primary responsibility for carrying out research and writing the thesis rests with the student. The primary responsibility of the supervisor is to supervise the work of the student. This includes providing help, support and mentoring to enable the student to complete the research and produce a thesis to the best of the student’s ability.

The primary responsibility of the academic unit within which the student is registered is to provide suitable academic infrastructure for the research to be undertaken and
successfully completed. The primary responsibility of the University is to provide a framework of policies and procedures within which postgraduate research and research supervision are carried out efficiently and effectively.

Registration of the research students take place within the faculties, under the jurisdiction of the Dean. However faculty structures differ, lines of responsibility for research and research students vary from one faculty to another, and the supervision of research students will frequently involve research units that cross faculty boundaries. Procedures laid down in this Code of Practice should be interpreted along lines of responsibility clarified within each faculty according to its structure, and in accordance with the Research Management Plan of the University.

1. Responsibilities of the University

1.1 to specify clearly minimum entry standards for each level of award;
1.2 to ensure that a reasonable share of space and resources are made available to students;
1.3 to take measures to protect the intellectual property arising from the work of students in accordance with the University policy on IP;
1.4 to administer annual reporting requirements and monitor their effectiveness;
1.5 to set out clear guidelines for examiners outlining the University's expectations for the particular award;
1.6 to provide procedures by which either the student or the supervisor may make representations as appropriate should significant difficulties arise (see Grievance Procedures);
1.7 The University will provide each student with a copy of the relevant policies at enrolment, including: a copy of this document; the Rules governing the appropriate degree; the Library rules; and the policy relating to intellectual property, as it pertains to students.

2. Responsibilities of the Academic Unit

The academic units and the Faculty Research Committees should negotiate agreed areas of responsibility for students.

2.1 to ensure that the student meets the minimum requirements set down by the University for admission to candidature and is capable of undertaking the proposed project;
2.2 to ensure that the proposed research project is appropriate for the award;
2.3 to ensure that each research project is situated in the most appropriate discipline area;
2.4 to prepare and distribute postgraduate material that sets out the conditions, milestones, and monitoring procedures for undertaking postgraduate research within their unit;
2.5 to foster a supportive environment for research students;

2.6 to ensure that procedures are in place to select the most appropriate supervisor(s) or supervisory panel for the research project;
2.7 to ensure that high quality supervision is provided continuously throughout the research period;
2.8 to provide appropriate opportunities for students to develop their presentational skills;

(i) Assessment of the Research Proposal Review must include a written research proposal (according to the discipline conventions of the degree undertaken) and an oral presentation. The presentation must be made before a Research Proposal Review Committee which consists as a minimum the supervisor(s), two appropriate members of academic staff capable of assessing the thesis proposal, and a postgraduate research student representative as observer. Where relevant, a person external to the academic or research unit may be nominated. A report on this review must be lodged with the Office of Research and placed on the student's file.

(ii) If the Research Proposal Review Committee determines that the proposal is unacceptable, the student must re-present a research proposal within three months. If, after the second presentation of the research proposal, the Research Proposal Review Committee determines that the proposal is unsatisfactory, the student's candidature will be terminated.

(iii) Students may appeal against the Research Proposal Review Committee decision under section 11 of the Code of Practice - Supervision.

2.10 to ensure compliance with the University's policy on intellectual property.

3. Responsibilities of the Supervisor

The overriding responsibility of supervisors is to provide continuing support to students in researching and producing a thesis to the best of the student's ability. Specific responsibilities are:

3.1 to advise students of their procedural and substantive rights and responsibilities contained in this Code of Practice and other matters as detailed in Appendix A at their first meeting or within a month of this meeting.
General Information

3.2 to negotiate an agreement/contract of work to be done and schedules to be adhered to, and which is to be reviewed regularly (see Appendix A: First Interview Checklist);

3.3 to identify any shortcomings in a student's background and to suggest appropriate remedial studies (see Appendix B: Directory of Services);

3.4 to support students in developing a formal thesis proposal for review (see 2.9) within a negotiated time frame;

3.5 to maintain regular contact with the student and to ensure that a reasonable timetable is set to permit the degree to be completed within DETYA funding limits;

3.6 to require contact with and feedback from the student on a pre-arranged basis and agreed schedule so that the development of the student can be assessed at regular intervals;

3.7 to provide appropriate, helpful, and explanatory feedback to the student on any submissions, to return such feedback in reasonable time, and to assist students to develop solutions as problems are identified;

3.8 to monitor carefully the performance of the student relative to the work agreement and the standard required for the award, and to ensure that the student is made aware of whatever the supervisor may regard as inadequate progress or work below the standard generally expected;

3.9 to complete progress reports as scheduled by current university policy, including the assessment of any required written material in sufficient time to allow for comments and discussions before proceeding to the next stage;

3.10 to provide accurate feedback on the progress of the student in relation to the milestones established for the award by The Faculty, as required by the University and scholarship authorities;

3.11 to counsel students to enrol for a lower award if after one year, progress has been unsatisfactory. Alternatively students may choose to go on probation for the higher award by meeting certain goals as agreed between student, supervisor and a member of the URC from outside the faculty (see Probation);

3.12 to refer problems which cannot be resolved to the Head of the Academic unit, in the first instance; and if further resolution is necessary to the Dean or the Chair of the Faculty Research Committee as appropriate, and as a last resort to the PVC Research (see Grievance Procedures);

3.13 to advise the Faculty Research Committee of the names and credentials of suitable examiners;

3.14 to advise the student as to when and whether the thesis is suitable, in form and content, for submission, and to write a short factual report on the period of study;

3.15 to comply with the university's policy on intellectual property in all interactions with the student.

4. Responsibilities of Students

The primary responsibility for the undertaking, active prosecution and completion of the research rests with students. Specific responsibilities are:

4.1 to become familiar with the procedural and substantive rights and responsibilities of research students at the University of Wollongong;

4.2 to negotiate an agreement/contract of work to be done and schedules to be adhered to with the supervisor(s), which is to be reviewed regularly in the course of the candidature;

4.3 to discuss with the supervisor(s) the most useful type of help required for successful completion of the degree;

4.4 to undertake appropriate remedial work identified by the supervisor(s) should this be necessary;

4.5 to complete and present within an agreed time limit a formal thesis proposal;

4.6 to maintain regular contact with the supervisor(s) and to ensure that a reasonable timetable of meetings and submitted work is agreed and maintained;

4.7 to present required written material in sufficient time to allow for comments and discussions before scheduled meetings;

4.8 to negotiate with the supervisor(s) appropriate ways of documenting meetings including agreed actions arising from supervision sessions;

4.9 to complete progress reports as scheduled by current university policy,

4.10 to accept responsibility for the final copies of the thesis and to submit a thesis which meets the university's requirements on presentation and content.

5. General Issues Relating to Supervisors

5.1 The academic unit should take care to avoid situations where there is a conflict of interest between the supervisor and the student. In appointing supervisors, ensure that they are not engaged in assessing or supervising the research of students with whom they have a close personal relationship, which could give rise to undue advantage or disadvantage. Supervisors, both actual and potential, must advise their Head of Unit of any such relationship.

5.2 Supervisors will be responsible to the Head of the Unit and to the Dean or the Chair of the Faculty Research Committee as appropriate, for the supervision of students in their charge.

5.3 The University recommends co-supervision, where two or more supervisors may take differing roles and responsibilities depending on their expertise and experience with supervision. The principal supervisor has primary responsibility for coordinating
communication between the supervisors and the student. Where a supervisor is inexperienced co-supervision is mandatory.

5.4 In general all members of the academic staff are eligible to become principal supervisors of students for higher degrees if they have at least:
- a degree equivalent to or higher than that being supervised; or
- are currently active researchers or have proven research records; or
- have previous successful experience in supervision of post graduate students.

5.5 Members of the academic staff who are themselves students for higher degrees should not normally have major responsibility for students undertaking degrees at the same level. They can be co-supervisors provided there is no conflict of interest with their topic and that of the student.

5.6 Co-supervisors should generally be appointed at the outset of the program, particularly if any lengthy absences of the supervisor are planned or if expertise additional to that provided by the supervisor is required; this could be a staff member or members from the University or from another institution or from industry.

5.7 Any co-supervisor should be involved as soon as practicable in the development of the student's research plan and should maintain a level of communication with the student and the other supervisors to allow adequate supervision whenever necessary.

5.8 In some cases, e.g. where the topic is multi-disciplinary or staff inexperienced, a panel could be formed to advise the student; again, the site of primary responsibility must be made clear.

5.9 The University and its academic units should provide opportunities to assist academic staff in improving their understanding and skill in the supervision of postgraduate students. All staff who supervise or expect to supervise postgraduate students should work to improve their skills by using these opportunities.

6. Leave

6.1 Supervisors should ensure that students have accurate information about any planned, long leave (or retirement) during the candidature and about the arrangements to be made to provide for supervision during absences.

7. Reports

7.1 Written reports from the student and the supervisor are an important and formal means to monitor the progress of the student. Each report should be a frank appraisal of the student's progress by both the supervisor and the student. The annual report is the means by which the University assesses whether the candidature will continue into the following year.

8. Grievance Procedures

8.1 Any problems encountered during the candidature or any disagreements between the student and the supervisor in relation to the annual reporting process or to other matters during the candidature that cannot be easily resolved between the student and the supervisor are to be referred, by either the student or the supervisor, to the Head of Unit, in the first instance (in faculties with units) and then to the Dean or the Chair of the Faculty Research Committee as appropriate;

8.2 If the Head of Unit is also the supervisor then there is a clear conflict of interest and the student may go straight to the Dean or the Chair of the Faculty Research Committee, who may co-opt an independent person from outside the unit;

8.3 At any stage in this process the student may consult the Dean of Students for confidential advice and guidance and may formally request that the Dean of Students negotiates with the Faculty;

8.4 If, after this process, the student is not satisfied with the outcome, the student may refer the matter, in writing, to the Pro-Vice Chancellor Research and ask that the Dean of Students negotiate on his or her behalf.

9. Probation

9.1 If either supervisor or student expresses dissatisfaction in an annual report then the Dean or the Chair of the Faculty Research Committee as appropriate should consult with both parties independently not later than one month after lodgement of the unfavourable report. After such consultation, the Dean or the Chair of the Faculty Research Committee may decide that the matter has been resolved; if the matter is not resolved, the Dean or the Chair of the Faculty Research Committee may recommend a period of probation. If there is a conflict of interest, the Chair of the Faculty Research Committee will substitute for the Dean or vice versa;

9.2 (i) Probation is a process of testing of the performance of the candidate over a set period subject to a special supervisory regime.

(ii) If either the student or supervisor objects to the probation then the matter can be referred to a Panel consisting the Chair of the Faculty Research Committee (or nominee), a senior academic from outside the faculty nominated by the URC, and the President of the Post-graduate Association (or nominee). This panel will decide whether or not the probation should be imposed.

(iii) If the panel recommends probation and the student refuses to accept this recommendation, then the PVC(R) can terminate the candidature.

9.3 If probation is to be imposed, the PVC(R) will appoint a senior academic to oversee the supervision process and research progress for a period of not less than three months and not more than one year. At the end of
probation, in a report to the PVC(R), the senior academic will make recommendations addressing any perceived problems. The recommendations may include: continuation of enrolment; termination of candidature; transfer of award; change of supervisor or appointment of a panel of supervisors; including members from outside the academic unit.

9.4 (i) If the student fails to make satisfactory progress during the probationary period and the recommendation is transfer to Masters by research, but the student refuses then the PVC(R) can terminate the candidature.

(ii) If the recommendation is termination then the PVC(R) has the power to terminate the candidature.

9.5 Students and supervisors shall be informed of the outcomes of the recommendations. If they disagree with any of the outcomes, then they may appeal the decision to the appeals committee.

9.6 If the outcome of probation is termination then a student may appeal this decision to an appeals committee consisting of the Chair of Academic Senate, the President of the Postgraduate Students' Association and a third member from the Research Training Management Committee nominated by the Pro-Vice Chancellor (Research) (no members of this committee shall be from the faculty in which the candidate is enrolled).

10. Examination & Examiners

10.1 The examination of theses submitted for higher degrees is undertaken, in the case of Doctoral students, by at least two examiners who are external to the University. For Masters by research students, at least two examiners are used, no more than one of whom is an internal examiner; the supervisor cannot be an examiner;

10.2 The selection of examiners is of critical importance. In considering examiners, account should be taken of the examiners understanding and position on the thesis topic and on the methodology employed and their prestige and status in the field.

10.3 Examiners should normally be active in research/scholarship in the relevant area, thus ensuring that their knowledge of the field remains current;

10.4 They should have empathy with the theoretical framework used by the student;

10.5 They should have proven familiarity with the supervision/ examination of research theses;

10.6 The choice of examiners is a process involving both the student and the supervisor. Together they should generate a list of examiners, having regard to the known disciplinary biases of those suggested. The final choice will be finalised from this list by the supervisor and the head of the academic unit. The names of these examiners and their credentials should be submitted to the Faculty Research Committee for appointment;

10.7 Formal invitations to examine the thesis will be issued by the Thesis Examination Committee. Examiners are normally allowed eight weeks to examine the thesis and provide a report to the Thesis Examination Committee.

10.8 If the list of names agreed upon between student and supervisor is exhausted then the student must be consulted in drawing up a new list;

10.9 Examiners should be made familiar with the requirements of the University and the essential parts of the Rules governing the particular degree;

10.10 Students must not contact any examiner until the examination is complete and the report returned to and acted on by the thesis committee;

10.11 The reports from the examiners are considered by the Thesis Examination Committee, after receiving the comments of the Head on the reports. The Thesis Examination Committee determines the outcome of the examination;

10.12 The names of the examiners and copies of the examiner's reports are made available to the student after the Thesis Examination Committee has made its determination.

11. Appeals

11.1 As a result of the complex and special relationship with examiners of research degrees, the University has established a procedure which gives students, in certain circumstances, the right of appeal against the examination and evaluation of their candidature;

11.2 Appeals are permitted on procedural grounds only: appeals by disgruntled students simply rejecting the assessment of the merit of their work are not permitted. Appeals on grounds of inadequacy of supervisory or other arrangements during the period of study, are normally not permitted, unless the student can show that persistent efforts to deal with these issues were not adequately addressed; the grievance procedures outlined above, as well as the possibility of probation, should be used for these matters at the appropriate time during the candidature.

12. Grounds for Appeal

The only grounds normally permitted for an appeal against a decision not to award a postgraduate research degree or not to allow re-submission of a thesis for reexamination, are:

i) procedural irregularities in the conduct of the examination, that may have had an effect on the outcome of the examination;

ii) circumstances affecting the student's performance of which the examiners were not made aware in the supervisor's report;
iii) documentable evidence of prejudice or of bias on the part of one or more of the examiners;

iv) failure to consult the student about the choice of examiner.

13. Procedures

13.1 The appeal must be made by the student to the Pro Vice-Chancellor (Research), in writing, within one month of the decision of the Thesis Examination Committee being made known to the student; the student must set out fully the grounds for the appeal and provide documentary evidence in support of the appeal;

13.2 On receipt of the appeal, the Pro Vice-Chancellor (Research) will, in the first instance, refer the matter to the Thesis Examination Committee for advice on the circumstances of the case and, if appropriate, for reconsideration of its decision in the light of any information provided by the student that was not known to the Thesis Examination Committee at the time it made its original decision. On receipt of the advice from the Thesis Examination Committee, the Pro Vice-Chancellor (Research) will decide whether a case exists, prima facie;

13.3 If the Pro Vice-Chancellor (Research) determines that a case does exist, the appeal, together with the advice received from the Thesis Examination Committee, will be referred to the Council Committee of Appeal (Student Matters) for determination. The Committee will limit itself to considering the matter only on one or more of the three grounds outlined above and will not consider the academic merits of the examination. Unless they are relevant to particular points made in the case put forward by the student, the examiners' reports will not normally be placed before the Committee;

13.4 The Committee may determine that the appeal be dismissed or, if it finds that one of the three grounds for appeal above is satisfied, it will refer the matter back to the Thesis Examination Committee, through the Pro Vice-Chancellor (Research), with a direction that the thesis be re-examined. The Pro Vice-Chancellor will advise the student of the outcome of the appeal.


The University's Policy on Consultancies and Intellectual Property sets out, inter alia, the University's position in relation to intellectual property and ownership of work developed by students in the course of their candidature.

14.1 Ownership

The University will have a proprietary interest in any intellectual property developed by a student in the course of candidature for a degree of the University.

Where intellectual property has been created, all reasonable care must be exercised by the student, the supervisor(s) and the Head not to disclose or use the property in any way that would prejudice its protection.

14.2 Agreement

The onus is on the supervisor to inform the student fully, in writing before enrolment, of any aspects of the research which are likely to result in the generation of intellectual property and/or which is funded by any contractual arrangement(s) and of any restrictions on disclosure or communication with colleagues likely to result from such arrangements;

14.3 If the student agrees to take part in such a project, a written agreement on the conditions of disclosure etc., should be concluded over the signature of the student, principal supervisor and the Head;

14.4 Where patentable intellectual property is generated unexpectedly during the candidature and there is no initial agreement on intellectual property, the student, the principal supervisor and the Head should meet as soon as possible and produce a written understanding on the matter.

15. Access to theses

15.1 Following examination of the thesis and subsequent to any corrections required to the thesis as a result of the examination process, one copy of the thesis will be deposited in the University Library;

15.2 At the time of submission of the thesis, the student will be requested to complete a form to advise the Librarian on access rights to the thesis. Normally, the University expects that free access to all theses deposited in the Library should be permitted, but recognises that in exceptional circumstances, such as commercial confidences, it may be necessary to restrict access for a period of time. Where access is restricted, it should be for as short a time as possible.


16.1 All other provisions relating to intellectual property and to the role of the Illawarra Technology Corporation Ltd in relation to the assessment of and arrangements for the protection of intellectual property are set out in University's Policy on Consultancies and Intellectual Property, copies of which are available from Heads and from the Office of Research and Postgraduate Studies;

16.2 Agreement should be reached between the student and the supervisor concerning authorship of publications and acknowledgment during and after the candidature. There should be open and mutual recognition of the student's and the supervisor's contribution on all published work contributions on all published work arising from the project.

Appendix A

Checklist 1: First formal Meeting Supervisor(s) and Student

At their initial meeting or within a month after this the student and supervisor should discuss the Code of Practice with particular reference to the sections dealing with the responsibilities of the supervisor(s) and student. Where
there is more than one supervisor, the student is notified of particular responsibilities of each supervisor. Student and supervisor(s) then discuss and agree upon or note:

1. the duration, location and timing of future meetings;
2. the structure of future meetings, including which supervisors will attend and the responsibilities of student and supervisor(s) in the event of postponement of meeting;
3. timetabling of and completion and presentation of research proposal; the details of what is required in the thesis proposal and criteria for an acceptable thesis proposal;
4. a broad timetable, taking into account the level of the thesis, the student's timetable for the thesis, any foreseen intervening matters (e.g. major conferences) coursework required and the timetable agreed for completion and criteria of such work;
5. 'remedial' work required and a timetable agreed for completion and criteria of such work;
6. processes for submission of work e.g. whether material should be submitted before meetings;
7. access to equipment, study space, computer/software, access to email and funds, and where and when these are/will be available and likely resource implications;
8. obligations under the University's Annual Reporting system;
9. requirements to attend seminars, and how details of these will be communicated;
10. Intellectual Property Policy, and the consequences of this for the student's research are explained carefully;
11. Human Ethics Policy and its requirements;
12. The question of whether or not to keep a diary of meetings or another method of record keeping.
13. Grievance Procedures Policy;
14. Probation;
15. Normal progress requirements and other University Course Rules and where these are available to the student.

2. The Code

This Code sets out a Code of Conduct for the Responsible Practice of Research. Research and the pursuit of knowledge are vital institutional functions. The broad principles that guide research have long been established. Central to these are the maintenance of high ethical standards, and validity and accuracy in the collection and reporting of data. The responsibility of the research community to the public and to itself is acknowledged.

Communication between collaborators; maintenance and reference to records; presentation and discussion of work at scholarly meetings; publication of results, including the important element of peer refereeing; and the possibility that investigations will be repeated or extended by other researchers, all contribute to the intrinsically self-correcting nature of research.

Competition in research can have a strong and positive influence, enhancing the quality and immediacy of the work produced. However, competitive pressures can act to distort sound research practice, encouraging misconduct such as:

- the fabrication and/or falsification of data, including changing records;
- plagiarism; and
- misleading ascription of authorship.

It may also encourage the premature release of research results before they are adequately validated and the division of reports on substantial bodies of work into multiple small reports to enhance the "publication count" of the author(s).

3. Advice on Integrity in Research

A member of staff or student should in the first instance contact the Pro Vice-Chancellor (Research) if he/she requires confidential advice about what constitutes misconduct in research, the rights and responsibilities of a potential complaint, and the procedures for dealing with allegations of research misconduct within the institution. The University has nominated a group of people who are familiar with the literature and guidelines on research misconduct to be advisers on integrity in research.

4. Code of Conduct for the Responsible Practice of Research

4.1 General Ethical Considerations

- It is a basic assumption of institutions conducting research that their staff members are committed to high standards of professional conduct. Research workers have a duty to ensure that their work enhances the good name of the institution and the profession to which they belong.
- Research workers should only participate in work which conforms to accepted ethical standards and which they are competent to perform. When in doubt they should seek assistance with their research from their colleagues or peers. Debate on, and criticism of, research work are essential parts of the research process.
• Institutions and research workers have a responsibility to ensure the safety of all those associated with the research. It is also essential that the design of projects takes account of any relevant ethical guidelines.

• If data of a confidential nature are obtained, for example from individual patient records or certain questionnaires, confidentiality must be observed and research workers must not use such information for their own personal advantage or that of a third party. In general, however, research results and methods should be open to scrutiny by colleagues within the institution and, through appropriate publication, by the profession at large.

• Secrecy may be necessary for a limited period in the case of contracted research.

4.2 Specific matters

a) Retention of Data

• Data must be recorded in a durable and appropriately referenced form.

• Wherever possible, a copy of the original data should be retained in the department or research unit in which they were generated.

• There may be cases where retention of original data may be difficult, such as:
  - a large volume of source material; in these cases source material should be clearly referenced in any published material; or
  - data obtained from limited access databases or in a contracted project, in such cases a written indication of the location of the original data or key information regarding the limited access database from which it was extracted must be kept in the department or research unit.

• if at all possible, it is in the interests of all research workers to ensure that original data are safely held for periods of at least five years.

b) Publication

• No unpublished research results should be publicised by others without the agreement of all the researchers concerned.

• Where there is more than one author of a publication, one author (by agreement among the authors) should formally accept overall responsibility for coordinating the submission and revision of the manuscript. Such formal acceptance must be in writing and kept on file in the department or unit of that author together with the names of all other authors.

• The authors of the publication must read the final paper and sign a statement indicating that each of them has met the minimum requirements for authorship - see policy on Authorship - and who is the author taking overall coordinating responsibility for the publication. If, for any reason, one or more co-authors is unable to sign the statement, the head of the research unit or department may sign on his/her behalf, noting the reason for his/her non-availability.

• The coordinating author must keep the signed statement in his/her possession and submit a copy for retention in the department or unit when the work is accepted for publication.

• Where possible, it would be wise for papers submitted for publication to be read by a staff member outside the immediate group. This helps to ensure that the paper readily communicates its findings and major conclusions. It is, in any event, good practice to encourage discussion between members of different research groups.

• Publication of multiple papers based on the same set(s) or sub-set(s) of data is improper unless there is full cross-referencing (for example, by reference to a preliminary publication at the time of publication of the complete work which grew from it). Simultaneous submission to more than one journal or publisher of material based on the same set(s) or sub-set(s) of data should be disclosed at the time of submission.

c) The Role of Research Supervisors

• Members of the academic staff of the University (other than those who are themselves candidates for higher degrees) who are currently active researchers, who have proven research records and who have previous experience in supervision may be permitted to be sole supervisors of candidates for higher degrees. In the case of newer, less experienced members of staff, a co-supervisor, who will be a more experienced and, generally, more senior member of staff, will also be appointed. Staff whose previous supervisory experience has been less than satisfactory will not be appointed as sole supervisors.

• The ratio of research students/trainees to supervisors should be small enough to ensure effective interaction, as well as effective supervision of the research at all stages.

• As part of the formal Department induction procedures research supervisors should advise each research student/trainee of applicable government and institutional guidelines for the conduct of research, including those ethical requirements for studies on human or animal subjects, and requirements for the use of potentially hazardous agents.

• Research supervisors should be the primary source of guidance to research students/trainees in all matters of sound research practice.

• As far as possible, research supervisors should ensure that the work submitted by research
students/trainees is their own and that, where there are data, they are valid.

- Where possible, the head of the research unit should be personally involved in active research supervision and observe the research activities of those for whom he or she is responsible. Professional relationships should be encouraged at all times. In particular, there should be wide discussion of the work of all individuals by their peers.

d) Disclosure of Potential Conflict of Interest

Disclosure of any potential conflict of interest is essential for the responsible conduct of research. The formal written disclosure of such interests will be to: the Pro Vice-Chancellor (Research); the editors of journals to which papers are submitted; and to bodies from which funds are sought.

e) Special needs in different disciplines

In some disciplines there will be special areas which require regulation, for example the handling of hazardous materials. The rules for this activity should form part of the general code of ethics for each discipline.

4.3 Misconduct

Misconduct in research includes:

- the fabrication of data; that is, claiming results where none has been obtained.
- the falsification of data, including changing records.
- plagiarism, including the direct copying of textual material, the use of other people’s data without acknowledgment and the use of ideas from other people without adequate attribution.
- misleading ascription of authorship including the listing of authors without their permission, attributing work to others who have not in fact contributed to the research, and the lack of appropriate acknowledgment of work produced by others involved in the research, such as a research student/trainee or associate.

It does not include honest errors or honest differences in interpretation or judgements of data. Examples of research misconduct include but are not limited to the following:

- Misappropriation: A researcher or reviewer shall not intentionally or recklessly:
  a. plagiarize, which shall be understood to mean the presentation of the documented words or ideas of another as his or her own, without attribution appropriate for the medium of presentation;
  b. make use of any information in breach of any duty of confidentiality associated with the review of any manuscript or grant application;
  c. intentionally omit reference to the relevant published work of others for the purpose of inferring personal discovery of new information.
- Interference: A researcher or reviewer shall not intentionally and without authorization take or sequester or materially damage any research-related property of another, including without limitation the apparatus, reagents, biological materials, writings, data, hardware, software, or any other substance or device used or produced in the conduct of research.
- Misrepresentation: A researcher or reviewer shall not with intent to deceive, or in reckless disregard for the truth:
  a. state or present a material or significant falsehood; or
  b. omit a fact so that what is stated or presented as a whole states or presents a material or significant falsehood.

The list above is not meant to be all inclusive. There may be other misdemeanours. For example, in human or animal experimentation departing from approved protocols accepted by a specific discipline might constitute misconduct.

4.4 Procedures for Dealing with Allegations of Misconduct in Research

A working party of the University Research Committee is at present working on an additional section on how to deal with allegations in establishing a prima facie case, as the disciplinary conditions can only come into play after this. This Code of Conduct for the Responsible Practice of Research aims to ensure a research environment that minimises the incidence of misconduct in research. It is inevitable, however, that there will be some allegations of misconduct. The procedures to cover the situation where allegations of misconduct are made against a staff member at the University of Wollongong are covered in the Management Handbook, under Rules for Staff Discipline.
Faculty of Arts

Member Units

Communication and Cultural Studies
English Studies
History and Politics
Modern Languages
Philosophy
Science, Technology and Society
Sociology

Note: The Aboriginal Education Centre, which administers the Aboriginal Studies Major, is an Associate Member Unit of the Faculty of Arts

Degrees Offered

The Faculty of Arts offers the Bachelor of Arts degree in a range of disciplines.

Bachelor of Arts (course code 702)
Bachelor of Arts (Dean's Scholars Advanced Degree) (course code 702A)
Bachelor of Arts (Community and Environment) Batemans Bay Education Centre (course code BB702)
Bachelor of Arts (Community and Environment) Bega Access Centre (course code BE702)
Bachelor of Arts (Community and Environment) Shoalhaven Campus (course code SH702)
Bachelor of Arts (Community and Environment) Moss Vale (course code yet to be determined)

Double Degrees

Bachelor of Arts - Bachelor of Commerce
Bachelor of Arts - Bachelor of Engineering
Bachelor of Arts - Bachelor of Laws
Bachelor of Creative Arts - Bachelor of Arts
Bachelor of Science - Bachelor of Arts

Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/, or contact the relevant Faculty.
Course Structures

Bachelor of Arts

The following requirements are to be read in conjunction with University Course Rules.

1. To qualify for the award of the degree of Bachelor of Arts in the Faculty of Arts a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of subjects listed in the Faculty of Arts Course Structures or the General Schedule.

2. Of the 144 credit points:
   a) i) at least 72 credit points, including a major study, shall be for subjects listed in the major study areas below;
      ii) of the 72 credit points, at least 36 credit points must be for subjects offered by member units of the Faculty of Arts (including ABST subjects offered by the Aboriginal Education Centre)
   b) not more than 60 credit points shall be for 100 level subjects.

Note: For the Bachelor of Arts (Dean’s Scholars Advanced Degree), students must undertake their major studies from within the Faculty of Arts.

The degree requires one major study to be completed; however, a student may undertake two major studies within the normal requirements of the degree. Major studies completed are noted on the student’s testamur, awarded at Graduation.

A candidate who has registered for two major studies for which there are common subjects may count one subject in common towards these major studies, and may count the credit points for that subject, which may be at any level, once only in the credit point total required for the course.

An Honours Bachelor of Arts degree requires additional study (one year full-time, or two years part-time) and may be undertaken by students who meet the requirements for enrolment in Honours.

Major Study Areas

Aboriginal Studies
Asia Pacific Studies
Australian Studies
Communication Studies
Community and Environment*
English Language Studies
English Studies
European Studies
French
Gender Studies
History
Information Studies
Italian
Japanese
Philosophy
Politics
Resource and Environmental Studies
Sociology
Science, Technology and Society
*available at the Shoalhaven and Moss Vale Campuses and Bega and Batemans Bay Education access centres only.

Independent Subjects

Linguistics
Spanish

Major Study areas offered by other Faculties

Note: these majors are not available to students in the Bachelor of Arts (Dean’s Scholars Advanced Degree)

Accountancy*
Economics
Education
Geology*
Geosciences, Human Geography, Physical Geography
Industrial Relations
Legal Studies
Aboriginal Studies

Aboriginal Studies is an interdisciplinary major which links together subjects in a number of Programs in the Faculty of Arts as well as subjects offered by the Faculties of Creative Arts, Education, Law, Science and Health and Behavioural Sciences, to provide Aboriginal and non-Aboriginal students with a coherent program in the study of Aboriginal Australia.

Major Study

The major consists of four core subjects offered by the Aboriginal Education Centre together with a choice of subjects offered by participating Programs and Faculties. Because it is anticipated that the number of subjects available in the major will expand, students are advised to consult with the Aboriginal Education Centre about available subjects prior to enrolment.

A major in Aboriginal Studies requires the completion of a minimum of 52 credit points, consisting of at least 12 credit points at 100-level, 16 credit points at 200-level and 24 credit points at 300-level including the four core subjects ABST100, ABST200, ABST300 and ABST301. The core subjects are currently under review.

SOC231 and SOC306 are strongly recommended as preparatory subjects, for attempting ABST350 in the final year of the major.

Quotas may be applied to entry to the major in Aboriginal Studies, including entry to ABST100.

Double Major

Because Aboriginal Studies subjects are drawn largely from the offerings of a number of Programs and Faculties, it is possible for students to complete a second major. Students are encouraged to look closely at this option, particularly if they are contemplating postgraduate study.

Honours Program

Students who have completed a double major may be accepted into an Honours program. The program will be administered by the Program of the student's second major, subject to approval by the Head of the relevant Program and the Head of the Aboriginal Studies Program.

Co-ordinator: Ms Judy Mundine, Aboriginal Education Centre.

100-level

Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABST100</td>
<td>Introduction to Aboriginal Cultures</td>
<td>6</td>
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Plus at least 6 credit points chosen from:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>ABST150</td>
<td>Introduction to Aboriginal Australia</td>
<td>6</td>
</tr>
<tr>
<td>ENGL113</td>
<td>Contemporary Writing in Australia</td>
<td>6</td>
</tr>
<tr>
<td>LAW344</td>
<td>Indigenous Peoples and Legal Systems</td>
<td>6</td>
</tr>
<tr>
<td>NURS140</td>
<td>Introductory Communication Studies</td>
<td>6</td>
</tr>
<tr>
<td>STS120</td>
<td>Technology in Society: East and West</td>
<td>6</td>
</tr>
<tr>
<td>VIS123</td>
<td>Introduction to Aboriginal Arts and Society</td>
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</table>

200-level

Core

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<tr>
<td>ABST200</td>
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Plus at least 8 credit points chosen from:

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<thead>
<tr>
<th>Course</th>
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<th>Credit Points</th>
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</thead>
<tbody>
<tr>
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<td>A Sociology of Australia's Indigenous Peoples: Contemporary Issues and Debates</td>
<td>8</td>
</tr>
<tr>
<td>GEOS234</td>
<td>Environmental Prehistory of Australia</td>
<td>6</td>
</tr>
<tr>
<td>HIST218</td>
<td>Consensus, Conflict and Culture: Australia 1888-1988</td>
<td>8</td>
</tr>
<tr>
<td>LAW344</td>
<td>Indigenous Peoples and Legal Systems</td>
<td>6</td>
</tr>
<tr>
<td>NURS240</td>
<td>Current Services in Aboriginal Health</td>
<td>6</td>
</tr>
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<td>NURS242</td>
<td>Functional Community Structures</td>
<td>6</td>
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<tr>
<td>PHIL232</td>
<td>Political Philosophy</td>
<td>8</td>
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</table>
Course Structures

SOC231 Introduction to Social Research 8
STS220 Technology in Society: East and West 6
STS221 Technology in Society: East and West 8
VIS223 Aboriginal Art and Land 6

300-level

Core
ABST300 Indigenous Theories of Decolonisation 8
ABST301 Research Methods and Issues in Aboriginal Studies 8
(ABST301 is not available in 2002; please see coordinator for a substitute)

Plus at least 8 credit points chosen from:
ABST350 Special Topic in Aboriginal Studies 8
ABST361 Issues in Aboriginal Education 8
ABST362 Aboriginal Pedagogy 8
AUST300 Twentieth Century Australian Literary Culture 8
EDUE301 Issues in Aboriginal Education 6
EDUE302 Aboriginal Pedagogy 6
ENGL371 Twentieth Century Australian Literary Culture 8
GEOS334 Environmental Prehistory of Australia 8
GEOS348 Cultural Landscapes 8
HIST380 Twentieth Century Australian Literary Culture 8
LAW344 Indigenous Peoples and Legal Systems 6
NURS345 Health and Human Ecology 6
PHIL390 Contemporary Political Philosophy 8
SOC305 Race and Ethnic Studies 8
SOC306 Sociological Research: Methodology and Practice 8

Accountancy
(Taught by the Faculty of Commerce)

Accountancy may be undertaken as a second major in the Bachelor of Arts, provided that the first major is selected from one of the major studies offered by the Faculty of Arts and provided that all the degree requirements are met.

To qualify for a major study in Accountancy in the Bachelor of Arts, students must complete successfully the following subjects:

ACCY100 Accounting IA 6
ACCY102 Accounting IB 6
ACCY201 Financial Accounting IIB 6
ACCY202 Financial Accounting IIA 6
ACCY211 Management Accounting II 6
ACCY302 Financial Accounting III 12
ACCY312 Management Accounting III 6

Plus a further 6 credit points of 300 accounting subjects

The Academic Senate has approved the following combinations of subjects as providing an approved substitute for Financial Accounting III or Management Accounting III:

a) either Financial Accounting III or Management Accounting III plus any other 300-level subjects offered by the Program of Accounting and Finance aggregating not less than 12 credit points;

b) either Financial Accounting III or Management Accounting III plus any subject at 300-level aggregating not less than 12 credit points offered by either the Computing Science, Economics, or Mathematics Departments; or Law Faculty;

c) either Financial Accounting III or Management Accounting III together with other subjects at 300-level offered by the Program aggregating not less than 6 credit points PLUS subjects aggregating not less than 6 credit points selected from the General Schedule 300-level subjects approved by the Head, Department of Accounting and Finance.

Applied Statistics

Please see the entry for Mathematics and Applied Statistics.
Asia Pacific Studies

Since the 1980s awareness of the importance of Australia’s role in the Asia-Pacific has led to the University of Wollongong giving priority to the study of the region and our place in it. Trade, culture, history, politics, economics and language have all received attention, with particular focus on Southeast Asia and Japan.

The teaching staff have long-standing research expertise in the region, and have published extensively. The University has a specialised Asia-Pacific Research Network, which brings together scholars from many Faculties. In particular the University of Wollongong has noted experts in Vietnam, Indonesia, Malaysia, Singapore, Papua New Guinea, China, Korea, Japan, India, Bangladesh, Sri Lanka, the Philippines and a number of other parts of the Asia-Pacific.

The following subjects have been approved for inclusion in the Major in Asia-Pacific Studies because they reflect the particular areas of expertise at the University of Wollongong: the understanding of development in the Asia-Pacific, the interaction of culture, language and politics in the region and intensive study of the Japanese language.

Major Study

A major study in Asia-Pacific Studies for the Bachelor of Arts degree requires the completion of a minimum of 52 credit points from the subjects listed below, including all core subjects. At least 24 credit points must be at 300-level. This interdisciplinary major may be taken as a single major study, but its flexibility makes it a useful component in a double-major.

Students should plan their degree programs carefully, bearing in mind the need to satisfy subject prerequisites particularly at 200- and 300-levels.

Studying Southeast Asia in Southeast Asia

Through existing exchange programs with Thailand, Indonesia and Vietnam students from the University of Wollongong can study for a semester or more in these countries as part of their degree. Through these exchanges the languages of these countries can be studied in their context.

Co-ordinator: Associate Professor Adrian Vickers, History and Politics Program.

Core Subjects

HIST107 Plunder, Profit and 'Progress': Empires and Colonies 6
and either
HIST287 Southeast Asian Transformations 8
or
SOC243 Contesting Asia: Culture, Diversity, Difference 8

Optional Subjects

100-level
ST120 Technology in Society: East and West (Also available as STS220 or STS221) 6
HIST124 The Cold War and After 6
JAPA101 An Introduction to Japanese 6
JAPA110 Japan and the Japanese 6
JAPA141 Beginners’ Japanese I 6
JAPA142 Beginners’ Japanese II 6
JAPA143 Beginners’ Japanese III 8

Note: the following 100-level subjects are not on offer in 2002, but have been offered in Summer Session in previous years.
INDO101 Introductory Indonesian/Malaysian - Level 1 6
INDO103 Introductory Indonesian/Malaysian 6
INDO104 Introductory Indonesian/Malaysian 1A Language 6
INDO105 Introductory Indonesian/Malaysian 1B Language 6
INDO106 Introductory Indonesian/Malaysian - Level 1 6
LANG196 Chinese (Mandarin) Level I 6
LANG197 Chinese (Mandarin) Level II 6
LANG198 Chinese (Mandarin) Intermediate Level for Other Dialect Speakers 6

200-level
ASIA299 Special Topics in Southeast Asian Studies 8
ECON251 Industry and Trade in East Asia 8
GEOG246 A Hungry World: Food Resources and the World Economy 6
HIST286 From Ancient Kingdoms to Colonies in Southeast Asia, 1500-1870 8
HIST288 Religion and Military Rule in Southeast Asia 8
Australian Studies

Australian Studies is an interdisciplinary course of study. It includes Aboriginal studies, history, politics, literature, media, sociology, science and technology and gender in its ambit. It has been designed to introduce students to the various ways Australian issues are addressed and analysed by a variety of interdisciplinary and disciplinary approaches.

Major Study

A major in Australian Studies consists of a minimum of 52 credit points. The major is made up of the three core subjects: AUST101, either AUST246 or HIST 218, and AUST300. The balance of credit points is made up by taking subjects with Australian content offered by the following Programs within the Faculty: Aboriginal Studies, Communications and Cultural Studies, English, History and Politics, Science Technology and Society and Sociology. A list of some of these subjects can be seen below. To complete the major, students will need to take a minimum of 12 credit points at 100-level (AUST101 plus one 100-level subject from the list), a minimum of 16 credit points at 200-level (AUST246 or HIST 218 plus one 200-level subject from the list) and a minimum of 24 credit points at 300-level (AUST300 plus two 300-level subjects from the list).

Students should ensure that they have the necessary prerequisites to take the subjects of their choice or have had the prerequisites waived by the Head of the relevant Program. Those interested in Honours in Australian Studies should consult the Australian Studies co-ordinator. A notice board with information on Australian Studies can be found adjacent to the History and Politics Program Office.

Co-ordinator: Dr Catriona Elder, History and Politics Program.

100-Level
(a minimum of 12 cp, including AUST101)

Core
AUST101 Australian Studies: Cultures and Identities 6

Electives 6 cp from
ABST100 Introduction to Aboriginal Cultures 6
ABST150 Introduction to Aboriginal Australia 6
ENGL113 Contemporary Writing in Australia 6
HIST121 Dispossessed, Diggers and Democrats: Australia 1788-1880s 6
POL111 Australian Politics 6
POL141 Change and Debate in Contemporary Australian Politics 6
SOC103 Aspects of Australian Society 6
STS120 Technology in Society: East and West 6
200-Level
(a minimum of 16 cp, including AUST246 or HIST 218)

Core
AUST246  A Sociology of Australia's Indigenous People: Contemporary Issues and Debates  8

or
HIST218  Consensus, Conflict and Culture: Australia 1888 - 1988  8

Electives 8 cp from
ABST200  Aboriginal History Since Invasion  8
CCS215  Race, Gender, Colonialism: Studies in Australian Culture  8
CCS219  Australian Screen  8
ENGL231  Australian Drama and Theatre  8
ENGL244  Children's Literature in Australia  8
ENGL260  Nineteenth-Century Australian Literary Culture  8
HIST218  Consensus, Conflict and Culture: Australia 1888 - 1988  8
POL222  Australian Public Policy  8
POL226  Australian Political Thought  8
POL290  Women in Society: Productive and Reproductive Labour  8
SOC205  Sociology of the Family  8
SOC222  Sociology of Crime and Justice  8
SOC242  Contemporary Issues in Society  8
STS220  Technology in Society, East and West  8

300-Level
(a minimum of 24 cp, including AUST300)

Core
AUST300  Twentieth Century Australian Literary Culture*  8

Electives 16 cp from
ABST300  Indigenous Theories of De/Colonisation  8
ABST301  Research Methods and Issues in Aboriginal Studies  8
CCS330  The Practices of Everyday Life  8
CCS352  Flashpoints: Contestations in Contemporary Australian Culture  8
CCS357  Television Cultures  8
ENGL346  Comparative Australian/Canadian Writing  8
ENGL359  Contemporary Australian Drama  8
HIST315  Comparative Settler Societies  8
HIST318  The Making of the Modern Australian Woman  8
HIST336  Australians and War  8
HIST394  Commodification History  8
SOC305  Race and Ethnic Studies  8
SOC307  Urban Society  8
SOC308  Social and Public Policy  8
SOC330  The Sociology of Gender Relations  8
SOC341  Special Topic in Sociology  8

* Students please note: Students may enrol in the subject Twentieth Century Australian Literary Culture under one of the following subject codes: AUST300, ENGL371 or HIST380. All students in the subject attend the one lecture group and any one of the subject codes will be accepted in any of the majors containing the subject.

Example: Students majoring in English normally enrol in the subject as ENGL371 Twentieth Century Australian Literary Culture. If, however, they have studied the subject as HIST380 or AUST300, it can still count as an English subject at 300 level. This also applies for Australian Studies and History.

Double majors: Students who are attempting any two of the three majors may use this subject as the one subject which they can count across two majors. (The 8 credit point value of the subject is only counted once).
Course Structures

Communication Studies

Communication Studies, as offered in the Communication and Cultural Studies Program, is an interdisciplinary study which considers questions of interaction and conversation, text and image, and studies communication industries and communication technologies. While there are some practical components in selected subjects, the approach to Communication Studies is strongly conceptual, situating communication studies in broad social, political, historical and cultural contexts, as well as investigating the ways in which audiences are positioned and meanings are constructed.

Communication Studies Major

The Communication Studies major will be made up of at least 54 credit points: at 100-level, CCS105 (6 cp); 24 credit points at 200-level and 24 credit points at 300-level. Of the 54 credit points, at least 38 credit points will be in subjects with the CCS prefix. At 200-level, 16 cp must be in subjects with the CCS prefix, including either CCS207 or CCS221 (one of these two subjects must be completed). At 300-level, at least 16 credit points will be from subjects with the CCS prefix. The remaining 16 cp for the major may be made up of CCS subjects or subjects from other units approved for inclusion in the Communication Studies major. (See list of recommended subjects from other Units below).

Quotas may be applied to entry to the major in Communication, including entry to CCS105.

Pre-requisites

Entry to all CCS 200-level subjects will require CCS105. Entry to CCS 300-level subjects will require at least 8 credit points at CCS 200-level. Study abroad and exchange students can consult with the Head of Program about entry to upper level CCS subjects.

Honours Program

Communication and Cultural Studies offers an Honours Program. Students must maintain a credit average in completing the requirements for the Communication Studies major or its equivalent before being eligible to undertake the Honours year. Students considering Honours should discuss their undergraduate programs with the Honours co-ordinator.

Postgraduate Studies

Students should consult the Postgraduate Calendar for details of course structure and content.

Textbooks

Students should contact the UniCentre bookshop and the subject co-ordinators for a list of textbooks.

100-Level

CCS105 Introduction to Communication and Cultural Studies 6

200-Level

For the major: 24 credit points. 16 cp of CCS subjects which must include either one or both of CCS207 and CCS221. The remaining 8 cp may be a CCS subject or a subject chosen from the list of approved subjects below.

CCS207 Signs of Power: Culture and Representation 8
CCS213 Audiences and Readers 8
CCS215 Race, Gender, Colonialism: Studies in Australian Culture 8
CCS217 Film Form and Style 8
CCS219 Australian Screen 8
CCS221 Critical Cultural Practice 8
CCS223 Introduction to Publishing Studies: Print 8
CCS225 Introduction to Electronic Publishing 8

300-Level

For the major: 24 cp which must include at least two CCS subjects; The remaining 8 cp may be a CCS subject or a subject chosen from the list of approved subjects below.

CCS330 The Practices of Everyday Life 8
CCS333 Popular Genres 8
CCS334 Technologies of The Body 8
CCS335 Electronic Cultures 8
CCS337 Hollywood and American Culture 8
CCS339 Hollywood and the Globalisation of Culture 8
CCS343 Directed Study 8
CCS348 Television, Globalisation and Cultural Identity 8
CCS351 Semiotics and Communication 8
CCS352 Flashpoints: Contestations in Contemporary Australian Culture 8
CCS357  Television Cultures  8

**400-Level**
CCS400  Honours  48
CCS405  Joint Honours  48
CCS407  Special Study  8

Subjects not having the prefix CCS, and approved for inclusion in the Communication Studies major. Up to two of the following subjects may be included in the major; one 200-level subject and one 300-level subject.
SOC241  Culture and Communication  8
PHIL255  Interpretation and Communication  8
POL224  Politics and the Media  8
STS241  Technological Change, Popular Culture and New Media  8
ABST200  Aboriginal History Since Invasion  8
EDUC314  Language and Ideology  8
ENGL350  Fantasy and Popular Culture  8
HIST379  Culture and Identity in Indonesian History: 1870-2001  8
PHIL322  Theories of Knowledge and Metaphysics B  8
POL324  Culture and Politics  8
POL368  Protest and Power in America: The Sixties  8
SOC305  Race and Ethnic Studies  8
WRIT315  Writing for Film and TV300  6
WRIT317  Arts Journalism 300  6
ABST300  Indigenous Theories of De/Colonisation  8

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**Community & Environment**

(Available at the Shoalhaven and Moss Vale Campuses, Batemans Bay Library and Education Access Centre and Bega Education Access Centre)

The Community and Environment major is made up of 78 credit points, consisting of all five core subjects at 100-level (30 credit points), 3 core subjects at 200-level (24 credit points) and 24 credit points at 300-level made up of the two core subjects and one elective from the 300-level Arts offerings. The remainder of the degree consists of electives chosen from Arts or, with the approval of the appropriate Program/Faculty, electives from the following degrees offered at the South Coast campuses: Bachelor of Business Administration, Bachelor of Commerce, Bachelor of Information and Communication Technology (Business Information Systems), Bachelor of Physical Science, Bachelor of Science.

The BA is a coherent interdisciplinary degree based around a core and electives chosen from a range of subjects offered by the Faculties of Arts, Commerce, Informatics and Science. Some subjects that are also offered on the Wollongong campus will be available in a flexible delivery mode in Nowra, Batemans Bay and Bega.

Students gain a broad general education with an emphasis on gaining transferable skills in written and oral communication, research and computer applications. While the traditional humanities and social sciences skills of reading to understand, writing essays and making convincing oral presentations are central, so are the related skills of report and submission writing, understanding the use of statistics in arguments and using the new technologies to find and present information.

Students are able to study progressions of subjects with a strong Australian content in the areas of environment, Social and Public Policy, cultural heritage (including Aboriginal studies, history and literature), and communication studies (including film and television).

**Honours**

At the end of a three year undergraduate degree, a fourth or Honours year will be available for eligible students.

**100-Level**

**Core**
ARTS112  People and Place  6
ARTS113  Society and Representation  6
CCS105  Introduction to Communication and Cultural Studies  6
ELS161  English for Academic Purposes: a First Language Perspective  6
PHIL151  Practical Reasoning A  6
Course Structures

**Electives**
- ABST150 Introduction to Aboriginal Australia 6
- GEOS142 The Human Environment: Problems and Change 6

**200-Level Core**
- ENGL260 Nineteenth Century Australian Literary Culture 8
- HIST218 Consensus, Conflict and Culture: Australia, 1888-1988 8
- SOC231 Introduction to Social Research 8

**Electives**
- ABST200 Aboriginal History Since Invasion 8
- CCS219 Australian Screen 8
- GEOS243 Rural Australia: Economy, Community and Environment 8
- POL290 Women in Society: Productive and Reproductive Labour 8
- STS218 Environment in Crisis: Technology and Society 8

**300-Level Core**
- SOC308 Social and Public Policy 8
- STS300 The Environmental Context 8

**Electives**
- SOC306 Sociological Research: Methodology and Practice 8
- ABST300 Indigenous Theories of De/Colonisation 8
- ENGL337 Sex, Power and Chivalry: Medieval to Modern Literature 8
- HIST334 Regional History 8
- HIST380/ TWENTIETH CENTURY AUSTRALIAN LITERARY CULTURE 8
- AUST300/ ENGL371

* Electives may also be chosen from other Faculties' subjects offered at the South Coast and Moss Vale campuses, subject to meeting entry requirements.

**Economics**
(Taught by the Faculty of Commerce)
To qualify for a major study in Economics in the Bachelor of Arts, students must complete successfully the following subjects:
- ECON101 Macroeconomic Essentials for Business 6
- ECON111 Introductory Microeconomics 6
- ECON205 Macroeconomic Theory and Policy 8
- ECON215 Microeconomic Theory and Policy 8

The Head of the Department of Economics may grant specified credit for any or all of these subjects upon evidence of completion, at a satisfactory standard of pass, of comparable subjects elsewhere.

Plus a further 8 credit points of 200-level subjects and 24 credit points of 300-level subjects listed in the Commerce Course Structures, Major C3.

**Education**
(Taught by the Faculty of Education)
A Major in Education in the Bachelor of Arts is made up of at least 48 credit points and students must successfully complete the following subjects:
- EDUF111 Education I 6
- EDUF212 Education II 6

plus

a further 24 credit points from 300 and 400 level subjects listed in the 3 recommended specialised strands below

plus

a further 12 credit points from subjects listed in the 3 recommended specialised strands below. Subjects may also be selected from those listed in the Education Course Structures with an EDUE prefix. Related disciplines, such as Communication
Studies, English Language Studies, Psychology or Sociology, may be studied if approved of the Faculty of Education - BA (Education) Coordinator.

Notes
A major in Education in an Arts degree is not a recognised teacher-training credential. However, although some study in Education is recommended for students interested in a career in any instructional or communication-oriented field.

Students interested in pursuing a teacher-training credential by completing the Graduate Diploma In Education at the completion of their undergraduate degree, should consult with the Faculty Of Education - Director, Graduate Diploma In Education.

Certain Education subjects may be recognised as part of a major study in areas such as Communication Studies, English Language Studies, Psychology or Sociology. Students should consult the relevant Program coordinator for further information.

Study in Education in the Arts degree is grouped into 3 recommended specialised strands:

1. Language in Education
2. Equity and socio-cultural diversity
3. Educational Psychology and Special Education

The suggested pattern of studies for each recommended specialised strand is outlined below. Students are free to select subjects across the recommended specialised strands and are able to incorporate related areas of interest into a comprehensive program of studies. It is recommended that students consult with the BA Coordinator within the Faculty of Education regarding their intended program of studies.

First Year of Study

Core Subjects
EDUF111 Education I 6
EDUF212 Education II 6

Second/Third Year of Study

Language in Education Stream *
* Students should note that a specialist qualification in Language Teaching, the Certificate In Second Language Teaching is also available. Contact the Faculty Of Education for further information.
EDUC291 Culture, Immigration and Education 8
EDUE303 Teaching Language and Literacy Through Literature in Early Childhood Years 6
EDUE304 Teaching Language Through Literature in the Primary and Middle Years 6
EDUL314 Language and Ideology 8
EDUL331 English Language: Examining Learners Problems 8
EDUL340 Materials and Technology in Second Language Teaching 8
EDUL350 Programming and Methodology in Second Language Teaching 8
EDUL360 Practicum or Project in Second Language Teaching 8
EDUT301 Research Methods 6

Equity And Socio-cultural Diversity Stream
EDUC323 Curriculum and Program Evaluation 8
EDUC291 Culture, Immigration and Education 8
EDUC292 Gender and Social Justice 8
EDUL314 Language and Ideology 8
EDUE301 Issues in Aboriginal Education 6
EDUE302 Aboriginal Pedagogy 6
EDUT301 Research Methods 6

Educational Psychology and Special Education Stream
EDUC213 Educational Psychology of Typical Children 6
EDUC217 Educational Psychology of Atypical Children and Introductory Educational Measurement 6
EDUF204 Learners with Exceptional Needs 6
EDUF232 Early Intervention and Children with Special Needs 6
EDUF311 Education III 6
EDUE320 Behaviour Management (Not to count with EDUE311) 6
EDUE321 Reading Difficulties (Not to count with EDUE312) 6
EDUE411 Disability issues across the Life Span 6
## Course Structures

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<tr>
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<th>Course Title</th>
<th>Credit Points</th>
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<tr>
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<tr>
<td>EDUT301</td>
<td>Research Methods</td>
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<td><strong>400-Level</strong></td>
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<tr>
<td>EDUZ401</td>
<td>Education Honours</td>
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</table>

## English Language Studies

The English Language Studies (ELS) major provides two orientations: a TESOL (Teaching English to Speakers of other Languages) orientation leading to a professional qualification in TESOL if further study is undertaken in the Faculty of Education, and an English for Professional Purposes orientation.

A major in English Language Studies for Non-English Speaking Background (NESB) students consists of 58 credit points, and must include 18 cp at 100-level, 16 cp at 200-level and 24 cp at 300-level, as set out below. A major in English Language Studies for English Speaking Background (ESB) students consists of 52 credit points, and must include 12 cp at 100-level, 16 cp at 200-level and 24 cp at 300-level, as set out below. Students who are uncertain whether they should be in the NESB or the ESB stream must consult the ELS co-ordinator.

### TESOL Orientation

**100-Level - NESB students**
- ELS151 English for Academic Purposes: A Second Language Perspective 6
- ELS152 English Language Studies 1 6
- LANG110 An Introduction to Linguistics: The English Language 6

**100-Level - ESB students**
- ELS161 English for Academic Purposes: A First Language Perspective 6
- LANG110 An Introduction to Linguistics: The English Language 6

**200-Level - NESB and ESB students**
- ELS261 English Language Studies 2 8
- LANG210 Communicating in a Foreign Language 8

**300-Level - NESB and ESB students**
- ELS361 English Language Studies 3 8
- ELS362 Language and Communication in a Global Context 8

Plus any one of the following:
- EDUL331 English Language: Examining Learners' Problems 8
- EDUL340 Materials and Technology in Second Language Teaching 8
- EDUL350 Programming and Methodology in Second Language Teaching 8
- EDUL360 Practicum or Project in Language Teaching 8

### English for Professional Purposes orientation

**100-Level - NESB students**
- ELS151 English for Academic Purposes: A Second Language Perspective 6
- ELS152 English Language Studies 1 6
- LANG110 An Introduction to Linguistics: The English Language 6

**100-Level - ESB students**
- ELS161 English for Academic Purposes: A First Language Perspective 6
- LANG110 An Introduction to Linguistics: The English Language 6

**200-Level - NESB and ESB students**
- ELS261 English Language Studies 2 8

Plus one of the following:
- PHIL255 Interpretation and Communication 8
- CCS223 Introduction to Publishing Studies: Print 8

**300-Level - NESB and ESB students**
- ELS361 English Language Studies 3 8
- ELS362 Language and Communication in a Global Context 8
- EDUL314 Language and Ideology 8
English Studies

Major Study

A major study in English Studies is made up of at least 54 credit points: 6 at 100-level, 24 at 200-level and 24 at 300-level. Of the 54, at least 46 credit points will be in subjects having the prefix ENGL with at least 6 credit points at 100-level and at least 16 credit points at 300-level having that prefix. The remaining 8 credit points may be made up of ENGL subjects or subjects from other units approved for inclusion in the English Studies major. These subjects are listed at the end of this entry. At 200- and 300-levels, Pass Conceded or Pass Restricted grades will not accrue credit points towards the major.

The English Studies Program offers subjects at 100-, 200-, 300-, and 400- (Honours) level, in the BA degree.

In the areas of Theatre and Writing, the Program has close working relationships with the Faculty of Creative Arts and, under certain circumstances and with the approval of the relevant Heads, students from the English Studies Program may undertake a limited number of subjects offered in the BCA. Similarly, students from the Faculty of Creative Arts may take Literature, Screen and Theatre subjects within the Program.

Pre-requisites For 200- and 300-Level Subjects

Students must have at least 6 credit points from 100-level English subjects to gain entry into 200-level subjects. For most 300-level subjects, students must have at least 6cp of subjects with the prefix ENGL at 100-level, 6cp of subjects with the prefix ENGL at 200-level and any other 6cp. For prerequisites to ENGL340 see subject descriptions.

Assessment

Assessment in this Program is normally by a combination of essays, tutorial/seminar presentations, journals and/or short, in-class or take-home exams. Drama subjects may have an additional practical component. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session. Only students who have completed ALL PARTS of the assessment requirement of a subject will be eligible to be awarded a passing grade.

Attendance

Satisfactory completion of a subject requires attendance at a minimum of 80% of tutorials/seminars. Students are expected to attend all lectures in each subject.

Textbooks

Students should check the UniCentre bookshop before buying texts for a subject.

English Honours

Students who achieve a credit average or better in English and who wish to undertake a further year of English study or proceed to research-based higher degrees should consider enrolling in English Honours. This Program has an "end-on" honours year, which means that there are no specific Honours subjects at second and third year levels. Students complete the requirements for the English major and the undergraduate pass degree (and may if they wish, graduate as pass degree students) before being eligible to undertake the Honours year.

Entry to 400-level (Honours) is determined by a recommendation from the Program Head, following the student's application to the University and the Program for admission to the Honours year. The Program normally accepts only students whose average English grade is a Credit or above, particularly at 200- and 300-levels. Approved students then enrol in a 48-credit point course, ENGL400, which consists of three (3) subjects and a 15,000-word thesis on a topic chosen by the student, in consultation with the Program. This may be taken as a one-year full-time course, or as a part-time course of up to four consecutive sessions (not including Summer).

Students considering Honours should discuss their undergraduate subject choices with the Honours Co-ordinator prior to the commencement of their first session of enrolment.

All offerings depend on the availability of staff and enrolment numbers in the subject.

100-Level

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL113</td>
<td>Contemporary Writing in Australia</td>
<td>6</td>
</tr>
<tr>
<td>ENGL117</td>
<td>Forms of the Imagination</td>
<td>6</td>
</tr>
<tr>
<td>ENGL120</td>
<td>An Introduction to Literature and Screen Studies</td>
<td>6</td>
</tr>
<tr>
<td>ENGL121</td>
<td>Text and Gender</td>
<td>6</td>
</tr>
<tr>
<td>ENGL199</td>
<td>Understanding Literary Techniques</td>
<td>6</td>
</tr>
</tbody>
</table>
Course Structures

200-Level

Students without English 100-level subjects may be admitted to subjects in English 200-level with the approval of the Program Head.

- ENGL228 English Renaissance Literature and Culture
- ENGL229 Romantics and Victorians: English Literature from 1790-1900
- ENGL230 Page to Stage: Modes of Performance
- ENGL231 Australian Drama and Theatre
- ENGL243 Fantasy and Children’s Literature
- ENGL244 Children’s Literature in Australia
- ENGL248 Chaucer
- ENGL253 Major Twentieth-Century Writers
- ENGL255 Eighteenth Century Literature and Culture
- ENGL259 An Introduction to Canadian Writing
- ENGL260 Nineteenth Century Australian Literary Culture
- ENGL264 Modernism
- ENGL265 English and the Empire
- ENGL299 The Vikings: Old Norse Culture, Language and Literature

300-Level

Students without the appropriate pre-requisites may be admitted to subjects in English 300-level with the approval of the Program Head.

Note: At 300-level, Pass Conceded or Pass Restricted grades will not accrue credit points towards the major.

- ENGL312 Shakespeare, Jonson and their Contemporaries
- ENGL330 Theatre in English since 1968
- ENGL331 Modern Drama
- ENGL334 Critical Theory: Development and Debates
- ENGL337 Sex, Power and Chivalry: Medieval to Modern Literature
- ENGL340 Directed Study in English
- ENGL345 Twentieth Century Women Writers
- ENGL346 Comparative Australian/Canadian Writing
- ENGL350 Fantasy and Popular Fiction
- ENGL355 Fourteenth Century Literature
- ENGL359 Contemporary Australian Drama
- ENGL363 Turning Points: Selected Post-Colonial Fiction
- ENGL365 Nineteenth Century Women Writers
- ENGL366 Africa and the New World
- ENGL371 Twentieth Century Australian Literary Culture*
- ENGL373 Studies in Decolonising Literatures
- ENGL374 Novel into Film
- ENGL398 The Vikings: Old Norse Culture, Language and Literature (Advanced)

Non ENGL subjects which will count towards the English Major

The following subjects will accrue credit points towards the English major. Students wishing to enrol in these subjects must satisfy the subject prerequisites.

- CCS213 Audiences and Readers
- CCS215 Race, Gender, Colonialism: Studies in Australian Culture
- CCS219 Australian Screen
- CCS221 Critical Cultural Practice
- CCS223 Introduction to Publishing Studies: Print
- CCS225 Introduction to Electronic Publishing
- CCS335 Electronic Culture
- CCS337 Hollywood and American Culture
- CCS339 Hollywood and the Globalisation of Culture
- GENE216 Women in Society: Images and Representations
- LANG305 Literature and Society in Renaissance Europe
- PHIL255 Interpretation and Communication
400-Level
ENGL400  English IV Honours  48
ENGL403  Combined Honours  48
ENGL499  Special Study  8

* Students please note: Students may enrol in the subject Twentieth Century Australian Literary Culture under one of the following subject codes: AUST300, ENGL371 or HIST380. All students in the subject attend the one lecture group and any one of the subject codes will be accepted in any of the majors containing the subject.

Example: Students majoring in English normally enrol in the subject as ENGL371 Twentieth Century Australian Literary Culture. If, however, they have studied the subject as HIST380 or AUST300, it can still count as an English subject at 300 level. This also applies for Australian Studies and History.

Double majors: Students who are attempting any two of the three majors may use this subject as the one subject which they can count across two majors. (The 8 credit point value of the subject is only counted once).

European Studies

A major in European Studies will consist of a minimum of 52 credit points, including a minimum of 20 cp chosen from Schedules 1, 2 or 3 and the remainder from Schedule 4. Students must include 24 cp at 300-level.

Students wishing to study French should take the subjects listed in Schedule 1 below. Students wishing to study Italian should take the subjects listed in Schedule 2 below. Students wishing to study Spanish should take the subjects listed in Schedule 3 below.

For details of the individual subjects including prerequisites and session offered, see the description of subjects, or consult the on-line subject database.

Co-ordinator: Dr Lorraine White, History and Politics Program.

Schedule I (French core subjects)
FREN151  French IA Language  6
or
FREN251  French IIA Language  8
FREN152  French IB Language  6
or
FREN252  French IIB Language  8
either
EURO210  Nations without States in the European Union  8
or
HIST210  The European Union: Post war European Integration, 1945-1995  8

Schedule II (Italian core subjects)
ITAL151  Italian IA Language  6
or
ITAL251  Italian IIA Language and Literature  8
ITAL152  Italian IB Language  6
or
ITAL252  Italian IIB Language and Literature  8
either
EURO210  Nations without States in the European Union  8
or
HIST210  The European Union: Post war European Integration, 1945-1995  8

Schedule III (Spanish core subjects)
SPAN151  Spanish for Beginners I  6
SPAN152  Spanish for Beginners II  6
either
EURO210  Nations without States in the European Union  8
or
HIST210  The European Union: Post war European Integration, 1945-1995  8
### Schedule IV (Elective subjects)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL228</td>
<td>English Renaissance Literature and Culture</td>
<td>8</td>
</tr>
<tr>
<td>ENGL229</td>
<td>Romans and Victorians: English Literature from 1780-1900</td>
<td>8</td>
</tr>
<tr>
<td>ENGL230</td>
<td>Page to Stage: Modes of Performance</td>
<td>8</td>
</tr>
<tr>
<td>ENGL248</td>
<td>Chaucer</td>
<td>8</td>
</tr>
<tr>
<td>ENGL253</td>
<td>Major Twentieth-Century Writers</td>
<td>8</td>
</tr>
<tr>
<td>ENGL255</td>
<td>Eighteenth Century Literature and Culture</td>
<td>8</td>
</tr>
<tr>
<td>ENGL264</td>
<td>Modernism</td>
<td>8</td>
</tr>
<tr>
<td>ENGL299</td>
<td>The Vikings: Old Norse Culture, Language and Literature</td>
<td>8</td>
</tr>
<tr>
<td>ENGL312</td>
<td>Shakespeare, Jonson and their Contemporaries</td>
<td>8</td>
</tr>
<tr>
<td>ENGL334</td>
<td>Critical Theory</td>
<td>8</td>
</tr>
<tr>
<td>ENGL337</td>
<td>Sex, Power and Chivalry: Medieval to Modern Literature</td>
<td>8</td>
</tr>
<tr>
<td>ENGL355</td>
<td>Fourteenth Century Literature</td>
<td>8</td>
</tr>
<tr>
<td>ENGL398</td>
<td>The Vikings: Old Norse Culture, Language and Literature (Advanced)</td>
<td>8</td>
</tr>
<tr>
<td>EURO110</td>
<td>France and Italy: a Cultural and Historical Framework</td>
<td>8</td>
</tr>
<tr>
<td>FREN210</td>
<td>France in the Twentieth Century</td>
<td>8</td>
</tr>
<tr>
<td>FREN361</td>
<td>French III C</td>
<td>8</td>
</tr>
<tr>
<td>FREN362</td>
<td>French III D</td>
<td>8</td>
</tr>
<tr>
<td>HIST108</td>
<td>War, Dictatorship and Propaganda in Europe, 1918-1945</td>
<td>6</td>
</tr>
<tr>
<td>HIST124</td>
<td>The Cold War and After</td>
<td>6</td>
</tr>
<tr>
<td>HIST232</td>
<td>Russia in War and Revolution</td>
<td>8</td>
</tr>
<tr>
<td>HIST286</td>
<td>From Ancient Kingdoms to Colonies in Southeast Asia, 1500-1870</td>
<td>8</td>
</tr>
<tr>
<td>HIST338</td>
<td>Advanced Topics in the History of Science, 1500-1800</td>
<td>8</td>
</tr>
<tr>
<td>HIST360</td>
<td>War, Death and Society, Europe 1350-1650</td>
<td>8</td>
</tr>
<tr>
<td>HIST363</td>
<td>Revolutions in World History</td>
<td>8</td>
</tr>
<tr>
<td>ITAL361</td>
<td>Interpreting I</td>
<td>8</td>
</tr>
<tr>
<td>ITAL362</td>
<td>Interpreting II</td>
<td>8</td>
</tr>
<tr>
<td>LANG210</td>
<td>Communicating in a Foreign Language</td>
<td>8</td>
</tr>
<tr>
<td>LANG305</td>
<td>Literature and Society in Renaissance Europe</td>
<td>8</td>
</tr>
<tr>
<td>LANG371</td>
<td>Advanced Studies in Language/Culture A</td>
<td>8</td>
</tr>
<tr>
<td>LANG372</td>
<td>Advanced Studies in Language/Culture B</td>
<td>8</td>
</tr>
<tr>
<td>LANG373</td>
<td>Advanced Studies in Language/Culture C</td>
<td>8</td>
</tr>
<tr>
<td>PHIL211</td>
<td>Greek Philosophy</td>
<td>8</td>
</tr>
<tr>
<td>POL314</td>
<td>Power and the Modern State</td>
<td>8</td>
</tr>
<tr>
<td>POL315</td>
<td>Post-Communist Politics</td>
<td>8</td>
</tr>
<tr>
<td>STS336</td>
<td>Advanced Topics in the History of Science</td>
<td>8</td>
</tr>
</tbody>
</table>

Note: Students who have not taken the following subjects as core subjects may take them as electives: FREN251, FREN252, ITAL251, ITAL252, HIST210, EURO210.

### French

#### Major Study

A major in French for beginners or near beginners consists of 66 credit points, and must include 18 cp at 100-level, 24 cp at 200-level and 24 cp at 300-level, as set out below. Students who have achieved a strong 2 Unit HSC pass or equivalent may choose to enter the language sequence at the level of FREN251 and complete a 54 cp major comprising 6 cp (civilisation) at 100-level, 24 cp at 200-level and 24 cp at 300-level, as set out below. All students wishing to enter the French major at the level of FREN251 must obtain formal approval from the French co-ordinator.

Subject to the pre-requisites listed in the subject database, language and literature/civilization subjects may be taken independently of one another, eg French 1A Language may be taken without also taking EURO110. However students wishing to complete a major in French must complete the sequence set out below.

Native or near-native speakers, whose major also consists of 54 cp, may be granted waivers for FREN251 and FREN252. Such waivers will be granted only at the time of first enrolment in French, in accordance with the Program's policy and with the formal approval of the French co-ordinator or the Head of Program. Replacement subjects to make up the 54cp for the major are to be chosen from the additional subjects listed below. Credit may be granted for language courses taken at University level in accordance with established University of Wollongong guidelines.

Note: The subjects EURO110, LANG210 and LANG 305 may be counted towards both the French and Italian majors.
### 100-Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN151</td>
<td>French IA Language</td>
<td>6</td>
</tr>
<tr>
<td>FREN152</td>
<td>French IB Language</td>
<td>6</td>
</tr>
<tr>
<td>EURO110</td>
<td>France and Italy: A Cultural and Historical Framework</td>
<td>6</td>
</tr>
</tbody>
</table>

### 200-Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN251</td>
<td>French IIA Language</td>
<td>8</td>
</tr>
<tr>
<td>FREN252</td>
<td>French IIB Language</td>
<td>8</td>
</tr>
<tr>
<td>LANG210</td>
<td>Communicating in a Foreign Language</td>
<td>8</td>
</tr>
</tbody>
</table>

### 300-Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN351</td>
<td>French IIIA Language</td>
<td>8</td>
</tr>
<tr>
<td>FREN352</td>
<td>French IIB Language</td>
<td>8</td>
</tr>
<tr>
<td>LANG305</td>
<td>Literature and Society in Renaissance Europe</td>
<td>8</td>
</tr>
</tbody>
</table>

Depending on availability, additional subjects may be taken from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FREN210</td>
<td>Twentieth-Century France</td>
<td>8</td>
</tr>
<tr>
<td>FREN361</td>
<td>French IIIC</td>
<td>8</td>
</tr>
<tr>
<td>FREN362</td>
<td>French IIID</td>
<td>8</td>
</tr>
<tr>
<td>LANG371</td>
<td>Advanced Studies in Language/Culture A</td>
<td>8</td>
</tr>
<tr>
<td>LANG372</td>
<td>Advanced Studies in Language/Culture B</td>
<td>8</td>
</tr>
<tr>
<td>LANG373</td>
<td>Advanced Studies in Language/Culture C</td>
<td>8</td>
</tr>
<tr>
<td>FREN391</td>
<td>French Study Abroad A</td>
<td>8</td>
</tr>
<tr>
<td>FREN392</td>
<td>French Study Abroad B</td>
<td>8</td>
</tr>
<tr>
<td>FREN393</td>
<td>French Study Abroad C</td>
<td>8</td>
</tr>
</tbody>
</table>

### Other Relevant Subjects

Students are advised that any of the following subjects, while not approved for inclusion in the major, would act as useful companion subjects:

#### 100-Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANG110</td>
<td>An Introduction to Linguistics: The English Language</td>
<td>6</td>
</tr>
<tr>
<td>ELS151</td>
<td>English for Academic Purposes: A Second Language Perspective</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td>ELS161 English for Academic Purposes: A First Language Perspective</td>
<td>6</td>
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</tbody>
</table>

#### 200-Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EURO210</td>
<td>Nations Without States in the European Union</td>
<td>8</td>
</tr>
<tr>
<td>HIST210</td>
<td>The European Union: Post-war integration 1945-1995</td>
<td>8</td>
</tr>
</tbody>
</table>

#### 300-Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELS362</td>
<td>Language and Communication in a Global Context</td>
<td>8</td>
</tr>
</tbody>
</table>

### Assessment

In all subjects, assessment may include essays, seminar papers, projects, periodic tests and field work, as well as final examinations. The precise weighting given to each component will be discussed with classes at the beginning of each session.

### Entry To Honours

Students wishing to enter the Honours program should have completed a major in French. At 300-level an average of credit performance or better is required. Joint Honours candidates must have satisfied the requirements for admission to Honours in both languages. Students enrolling in Honours in French take the following subject:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN450</td>
<td>French IV Honours</td>
<td>48</td>
</tr>
</tbody>
</table>

### Combined French and Italian Honours

Students wishing to undertake a combined Honours year in French and Italian enrol in the following subject:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANG425</td>
<td>Combined French and Italian Honours</td>
<td>48</td>
</tr>
</tbody>
</table>
Course Structures

Gender Studies

Gender Studies, with its motivating force of women's studies, is just as needed now as it ever was-perhaps in some respects more so-with the increasingly sophisticated and pervasive attempts to persuade the consumer/reader/user that all is equal and, finally, merely a matter of choice. One of the tasks of this major will be to address and redress this notion. It is an area of intense public debate and we seek to equip our students not only to enter into this debate but at some future time perhaps, to lead it.

The major is made up of subjects from the Faculties of Arts, Commerce, Education, Law and Science. It is an interdisciplinary major which recognises that students come from a range of backgrounds and may want to study over a range of areas. There are no core subjects. A number of the subjects within the proposed major deal not only with the impact of being gendered as female, but also with definitions of masculinity and with queer theory, an area of study more commonly associated with sexuality than gender.

The Gender Studies major will encourage students to develop greater tolerance and understanding of gender equity issues, values which they could bring to debates in the wider community.

Co-ordinator: Dr Anne Lear, (English Studies Program, Faculty of Arts).

Details of the Major

A major in Gender Studies will consist of at least 54 Credit Points chosen from the following range of subjects (at least 24 credit points must be at 300 level). Students will choose at least five subjects from the list of Specialist Electives, and no more than two from the list of General Electives. Normal pre-requisites apply for the following subjects unless these are waived by the Head of Unit. This applies, in particular, to LAW subjects, for which LAW100 Law in Society is a necessary pre-requisite and will not be waived. Please note: not all subjects will be available in any one year.

Specialist Electives

To satisfy the requirements of the major, students must choose at least five subjects from this list.

100-Level
ENGL121 Text and Gender 6

200-Level
ECON208 Gender Work and Family 8
EDUC292 Gender and Social Justice 8
ENGL260 Nineteenth Century Australian Literary Culture 8
POL290 Women in Society - Productive Reproductive Labour 8
PHIL260 Philosophy of Feminism A (also available as PHIL363) 8

300-Level
ENGL337 Sex Power and Chivalry: Medieval to Modern Literature 8
ENGL345 Twentieth Century Women Writers 8
ENGL365 Nineteenth Century Women Writers 8
AUST300 Twentieth Century Australian Literary Culture 8
ENGL371 Twentieth Century Australian Literary Culture 8
HIST380 Twentieth Century Australian Literary Culture 8
HIST318 The Making of the Modern Australian Woman 8
PHIL363 Philosophy of Feminism B 8
SOC330 Sociology of Gender Relations 8
CCS334 Technologies of the Body 8
LAW335 Anti-Discrimination Law 6
LAW349 Feminism and the Law 6

General Electives

To satisfy the requirements of the major, students must choose no more than two subjects from this list.

100-Level
GEOS142 The Human Environment: Problems and Change 6
SOC103 Aspects of Australian Society 6

200-Level
CCS215 Gender, Race, Colonialism 8
EDUF212 Education II 6
ENGL259 Introduction to Canadian Literature 8
SOC205 Sociology of the Family 8
Faculty of Arts

300-Level
GEOS348 Cultural Landscapes  8
LAW303 Children, Families and the Law  6
PHIL380 Bioethics  8

Geology, Geosciences, Human Geography or Physical Geography
(Taught by the Faculty of Science)

Students wishing to major in Geology, Geosciences, Human Geography or Physical Geography within the BA degree should consult the Course Structures of the Faculty of Science. Students anticipating a career in teaching would be well advised to choose options from both areas, and may also choose Geology subjects depending on the prerequisites. Students in the BA wishing to major in Geology must combine this major with a second major offered by a Faculty of Arts Program.

History

History offers subjects in social history, the social and political consequence of war, feminist history, revolution and colonialism, representation and history, world history and cultural and labour history. Emphasis lies on Australia, Europe, South East Asia and the Americas.

History is offered at all undergraduate levels: 100-level (first year), 200-level (second year) and 300-level (third year). 100-level subjects are each worth 6 credit points, 200-level and 300-level subjects are each worth 8 credit points.

Certain History subjects are well-suited to programs containing a major in Australian Studies and Resource and Environmental Studies.

Major Study

A major in History consists of 52 credit points, 24 of which must be at 300-level. As students progress through the levels of a History major, the subjects offered become more sophisticated in approach. 300-level subjects place greater emphasis on comparative and theoretical aspects of the discipline and encourage students to undertake original research.

Entry into any 200-level history subject requires a pass in at least one of the 100-level subjects. Entry into any 300-level subject requires 14 credit points of history, at least 8 of which must be at 200-level.

Students taking a major in History can count up to 16 credit points from the following: ABST100, ABST150, ABST200, AUST246, FREN210, STS212 and STS238. Note: students enrolled in a double major may only cross-count one subject.

Honours

Students with demonstrated ability and an interest in historical research may undertake honours, a fourth year of specialised historical enquiry and research. Students should discuss honours course requirements with the Program's honours coordinator at the conclusion of their 200-level subjects.

History & Politics Joint Major

The History and Politics Program also offers a Joint Major for students with an interest in both disciplines. The Major offers students the opportunity to explore two disciplines without the need to complete two separate majors (sometimes known as a Double Major), and it offers students the opportunity to combine the specialist areas offered by the History and Politics Program. The Joint Major consists of a minimum of 76 credit points. A minimum of 38 credit points must be taken from History subjects and a minimum of 38 credit points must be taken from Politics subjects. Students taking the Joint Major must have completed at least one 100-level subject, one 200-level subject and one 300-level subject drawn from the History schedule and at least one 100-level subject, one 200-level subject and one 300-level subject drawn from the Politics schedule. The balance can be made up from any subjects from 100- to 300-level, providing pre-requisites have been met for the subjects chosen, or the waiving of pre-requisites has been approved by the Head of Program.

100-Level
AUST101 Australian Studies, Cultures and Identities  6
HIST107 Plunder, Profit and 'Progress': Empires and Colonies  6
HIST108 War, Dictatorship and Propaganda in Europe, 1918-1945  6
HIST121 Dispossessed, Diggers and Democrats: Australia, 1788-1888  6
HIST124 The Cold War and After  6

200-Level
HIST205 Ancient History (Greece and Rome)  8
HIST210 The European Union: Postwar European Integration, 1945-1995  8
HIST218 Consensus, Conflict and Culture: Australia 1888-1988  8
Course Structures

HIST232 Russia in War and Revolution 8
HIST275 The Growth of the United States, 1865-1919 8
HIST276 America's Rise to Globalism Since 1919 8
HIST286 From Ancient Kingdoms to Colonies in Southeast Asia, 1500-1870 8
HIST287 Southeast Asian Transformations 8
HIST288 Religion and Military Rule in Southeast Asia 8
HIST291 Film and History 8
POL230 Latin America: The Politics of Conquest and Colonisation 8

300-Level
HIST315 Comparative Settler Capitalism 8
HIST318 The Making of the Modern Australian Woman 8
HIST325 Theory and Method of History 8
HIST334 Regional History 8
HIST336 Australians and War, 1914-1972 8
HIST338 Advanced Topics in the History of Science, 1500-1800 8
HIST360 Death, War and Society, Europe 1350-1650 8
HIST361 Fascism and the Authoritarian Right in Twentieth Century Europe 8
HIST363 Revolutions in World History 8
HIST379 Cultural and Identity Indonesian History 1870-2001 8
HIST380 Twentieth Century Australian Literary Culture* 8
HIST388 Vietnam in War and Revolution: Indo-Chinese Societies, 1860-2001 8
HIST394 Commodification History 8
POL368 Protest and Power in America: the Sixties 8

400-Level
HIST401 History IV (Honours) 48
HIST430 Joint Honours in History and another Discipline 48

* Students please note: Students may enrol in the subject Twentieth Century Australian Literary Culture under one of the following subject codes: AUST300, ENGL371 or HIST380. All students in the subject attend the one lecture group and any one of the subject codes will be accepted in any of the majors containing the subject.

Example: Students majoring in English normally enrol in the subject as ENGL371 Twentieth Century Australian Literary Culture. If, however, they have studied the subject as HIST380 or AUST300, it can still count as an English subject at 300 level. This also applies for Australian Studies and History.

Double majors: Students who are attempting any two of the three majors may use this subject as the one subject which they can count across two majors. (The 8 credit point value of the subject is only counted once).

Industrial Relations
(Taught by the Faculty of Commerce)

To qualify for a major study in Industrial Relations in the Bachelor of Arts, students must complete successfully the following subjects:

ECON140 Industrial Relations B: Wage Determination in Australia 6
or
ECON240 Industrial Relations B: Wage Determination in Australia 8
plus
ECON142 Industrial Relations: A 6
or
ECON242 Industrial Relations: A 8
plus
ECON340 Comparative Studies in Industrial Relations 8
or
COMM341 International and Comparative Employment Relations 8
plus
ECON348 Employers and Industrial Relations 8
ECON352 Negotiation, Advocacy and Bargaining 8
plus

an additional 8 to 12 credit points from the 300-level subjects listed in Major C-5 of the Faculty of Commerce Course Structures, to provide a total of at least 48 credit points. (Provided that in the case of ECON140 and ECON142 the Head of the Department of Economics may grant specified credit for either or both of these subjects upon evidence of completion, at a satisfactory standard of pass, of comparable subjects elsewhere.)

Information Studies

This major, using a variety of perspectives, enables students to use, critically analyse, reflect on and transform the rapidly changing information systems in society.

Major Study

A major study in Information Studies for the Bachelor of Arts degree is available by undertaking the following program. If required subjects in particular strands are not available, please see the coordinator of the major for advice on appropriate alternatives.

A major in Information Studies is an interdisciplinary program of core and optional subjects of between 60 and 76 credit points, depending on the course strands chosen by the student. It includes at least 24 credit points at 300 level. Subjects are drawn from the Faculties of Arts, Commerce, Informatics and Law.

Core
- CCS105 Introduction to Communication and Cultural Studies 6
- CSC1102 Introduction to Information Technology B* 6
- STS128 Computers in Society 6
  or
- STS228 Computers in Society 8

*Note: students who have not completed NSW HSC 2 (60 or better) or 3 unit computing studies or equivalent, normally require CSCI101 as a prerequisite to CSCI102. Students who are uncertain about this requirement should consult the Undergraduate Co-ordinator in Information Technology and Computer Science.

Options

Two of the following strands must be completed but students cannot count both strand 2 and strand 5.

Strand 1
All of the following:
- CCS223 Introduction to Publishing Studies: Print 8
- CCS225 Introduction to Electronic Publishing 8
- CCS335 Electronic Cultures 8
  and
- CCS348 Television, Globalisation and Cultural Identity 8
  or
- CCS357 Television Cultures 8

Strand 2*
All of the following:
- IACT201 Information Technology and Citizens’ Rights 6
- IACT202 The Structure and Organisation of Telecommunications 6
- IACT301 Information and Communication Security Issues 6
- IACT303 Worldwide Networking 6

Strand 3*
- LAW100 Law in Society 6
  and two of the following:
- LAW331 Intellectual Property Law 6
- LAW348 Media Law 6
- LAW487 Special Topic in Law 6
  or
- LAW488 Special Topic in Law 6

Note: Students choosing LAW331 normally need to have taken LAW210.

Note: Students choosing LAW487/488 should consult with the Dean of Law about a topic appropriate to this major.
Course Structures

Strand 4
Three of the following subjects, including at least two at 300-level

POL224 Politics and the Media 8
STS229 Scientific and Technological Controversy 8
STS329 Scientific and Technological Controversy 8
and one of the following:

STS240 Technological Change, Popular Culture and New Media 8
STS340 Technological Change, Popular Culture and New Media 8
STS288 Science and the Media 8
STS388 Science and the Media 8

Strand 5*
All of the following:

BUS211 Systems Analysis and Design 6
BUS212 Database Management Systems 6
BUS311 Advanced Database Management Systems 6
BUS312 Distributed Information Systems 6

*Note: these subjects are not taught by member units of the Faculty of Arts, and therefore are not included in the 36 credit points of Arts Faculty subjects students need to complete for the Arts degree.

Additional Information

Students are strongly encouraged to take MGMT102 Business Communications as an elective. Students completing the major may be considered for joint honours in the two disciplines which provided the specialist strands. To undertake honours in a single discipline students must have completed the requirements of a major in that discipline.

Italian

Major Study

A major in Italian for beginners or near beginners consists of 66 credit points, and must include 18cp at 100-level, 24cp at 200-level and 24cp at 300-level, as set out below. Students who have achieved a strong 2 Unit HSC pass or equivalent may choose to enter the language sequence at the level of ITAL251 and complete a 54cp major comprising 6cp (civilisation) at 100-level, 24cp at 200-level and 24cp at 300-level, as set out below. All students wishing to enter the Italian major at the level of ITAL251 or ITAL152 must obtain approval from the Italian co-ordinator.

Native or near-native speakers, whose major also consists of 54cp, may be granted waivers for ITAL251 and ITAL252. Such waivers will be granted only at the time of first enrolment in Italian, in accordance with the Program's policy and with the formal approval of the Italian co-ordinator or the Head of Program. Replacement subjects, to make up the 54cp for the major are to be chosen from the additional subjects listed below. Credit may be granted for language courses taken at University level in accordance with established University of Wollongong guidelines.

Subject to the pre-requisites listed in the subject database, language and literature/civilization subjects may be taken independently of one another, eg Italian 1A Language may be taken without also taking EURO110. However students wishing to major in Italian must complete the sequence set out below. Note: The subjects EURO110, LANG210 and LANG305 may be counted towards the Italian and French major.

100-Level

ITAL151 Italian IA Language 6
ITAL152 Italian IB Language 6
EURO110 France and Italy: A Cultural and Historical Framework 6

200-Level

ITAL251 Italian IIA Language and Literature 8
ITAL252 Italian IIB Language and Literature 8
LANG210 Communicating in a Foreign Language 8

300-Level

ITAL351 Italian IIIA Language and Literature 8
ITAL352 Italian IIB Language and Literature 8
LANG305 Literature and Society in Renaissance Europe 8

Depending on availability and satisfaction of appropriate pre-requisites, one or more subjects may be taken from:

ITAL361 Interpreting I (pre-requisite must be ITAL352) 8
ITAL362  Interpreting II (pre-requisite must be ITAL361)  8
LANG371  Advanced Studies in Language/Culture A  8
LANG372  Advanced Studies in Language/Culture B  8
LANG373  Advanced Studies in Language/Culture C  8
ITAL391  Italian Study Abroad A  8
ITAL392  Italian Study Abroad B  8
ITAL393  Italian Study Abroad C  8

**Assessment**

In all subjects, assessment may include essays, seminar papers, projects, periodic tests and field work, as well as final examinations. The precise weighting given to each component will be discussed with classes at the beginning of each session.

**Entry to Honours**

Students wishing to enter the Honours program should have completed a major in Italian. At 300-level an average of credit performance or better is required. Joint Honours candidates must have satisfied the requirements for admission to Honours in both languages. Students in Italian Honours enrol in the following subject:

ITAL450  Italian IV Honours  48

**Combined French and Italian Honours**

Students wishing to undertake a combined Honours year in French and Italian enrol in the following subject:

LANG425  Combined French and Italian Honours  48

**Other Relevant Subjects**

Students are advised that any of the following subjects, while not approved for inclusion in the major, would act as useful companion subjects:

LANG110  An Introduction to Linguistics: The English Language  6
ELS151  English for Academic Purposes: A Second Language Perspective  6
or
ELS161  English for Academic Purposes: A First Language Perspective  6
HIST210  The European Union: Postwar Integration 1945 to 1995  8
EURO210  Nations Without States in the European Union  8
ELS362  Language and Communication in a Global Context  8

**Japanese**

**Major Study**

The Japanese major is intended for students enrolling for the BA or its double degrees. The major is often undertaken as the Arts major in the BA/BCom. There are four possible entry points: beginners, post-HSC, intermediate or advanced. For beginners the major consists of 86 cps, for post-HSC, 78 cps, for intermediate, 66cps, and for advanced students 54 credit points. A unique feature of this course is the possibility of a period of study in Japan (in Summer Session) for beginners, post-HSC and intermediate entry students. Intermediate and advanced stream students are required to undertake a placement test. The post-HSC stream is designed for students having completed 2 unit of 3 unit Japanese at a NSW high school or equivalent. The beginners stream assumes no prior knowledge of the language. The Japanese major articulates with NSW TAFE Certificate 3 in Japanese.

Students wishing to study beginners Japanese but NOT major are encouraged to take JAPA141 in Session 1, or JAPA101 in Summer session if available. JAPA102 and JAPA103 are also available for beginners who are interested in basic Japanese for either teaching or business. Another special feature on offer at Wollongong for suitably qualified graduates is one year of study at a Japanese University in JAPA550 for which some generous scholarships are available.

Students who discontinue in Japanese language subjects and then decide to re-enter the course, provided they have the appropriate pre-requisites, will be allowed to re-enter only after successfully completing a re-entry test.

The Modern Languages Program has had considerable success in obtaining funding and scholarships to assist with the costs of travel and residence in Japan. However, funding is not guaranteed and students may need to meet the costs associated with travel and accommodation for any periods of study in Japan.
Course Structures

100-Level

Post-HSC

JAPA161 Post HSC Japanese I 6
JAPA162 Post HSC Japanese II 6

Beginners or near beginners

JAPA141 Beginners' Japanese I 6
JAPA142 Beginners' Japanese II 6
JAPA143 Beginners' Japanese III 8

200-Level (All Students)

Note: This is the entry point for the Intermediate Stream

JAPA261 Intermediate Japanese I 8
JAPA262 Intermediate Japanese II 8
JAPA263 Intermediate Japanese III (Japan)* 12

or

JAPA264 Intermediate Japanese III (Wollongong)* 12
LANG210 Communicating in a Foreign Language 8

300-Level (All Students)

JAPA310 Japanese Economics and Media 8
JAPA361 Advanced Japanese I 8
JAPA362 Advanced Japanese II 8

Japanese Elective Subjects

JAPA101 An Introduction to Japanese 6
JAPA102 Japanese Studies for Educational Purposes 6
JAPA103 Japanese Studies for Business Purposes 6

*Subject to availability

Entry To Honours

Students wishing to enter the Honours program will have completed a major in Japanese with a high credit average. Honours students enrol in the following subject:

JAPA450 Japanese IV (Honours) 48

Graduate Diploma in Arts (Japanese)

Students who qualify and are accepted for entry into the Graduate Diploma in Arts (Japanese) take the following subject:

JAPA550 Japanese Studies Abroad 48

Legal Studies

(Taught by the Faculty of Law)

Students wishing to major in legal studies in the Bachelor of Arts degree must complete 54 points of Legal Studies subjects at Pass Grade or better. LAW100 Law in Society is a compulsory subject in the BA major study. At least 24 credit points of the major study must be taken at the 300-level.

Class Hours

The maximum number of class hours will not exceed an average of four per week per subject. The subject program will specify the actual class hours required for each subject.

Seminars normally commence in the first week of session. Students are asked to indicate their preferred seminar/tutorial times prior to the commencement of session.

Important: There may be some restrictions on class sizes in Legal Studies subjects. Accordingly, students are strongly advised to finalise their enrolment in Legal Studies subjects for BOTH Autumn and Spring sessions as early as possible, preferably before the commencement of the academic year. In certain instances, adding Legal Studies subjects after the enrolment or re-enrolment dates may not be possible.
### Faculty of Arts

#### 100-Level
- LAW100 Law in Society 6

#### 200-Level
- LAW210 Contract Law 6

#### 300-Level
- LAW302 Law of Business Organisations 6
- LAW303 Children, Families and the Law 6
- LAW304 Criminal Law and the Process of Justice 6
- LAW308 Administrative Law 6
- LAW315 Taxation Law 6
- LAW316 Occupational Health and Safety 6
- LAW317 E-Commerce Law 6
- LAW330 Law of Employment 6
- LAW331 Intellectual Property Law 6
- LAW332 Labour Relations Law 6
- LAW334 Environmental Law 6
- LAW335 Anti-Discrimination Law 6
- LAW342 Law and Industrial Development 6
- LAW343 International Law 6
- LAW344 Indigenous Peoples and Legal Systems 6
- LAW348 Media Law 6
- LAW349 Feminism and Law 6
- LAW352 Advanced Taxation Law 6
- LAW360 Foreign Investment Law in the People's Republic of China 6
- LAW364 Consumer Protection and Business Regulation 6
- LAW366 Selected Issues in Legal Studies 6
- LAW370 An Introduction to Civil Law in the People's Republic of China 6

#### 400-Level
- LAW453 Studies in Taxation 6
- LAW463 Jurisprudence 6
- LAW464 Studies in Business Law 6
- LAW465 Studies in Administrative Law 6
- LAW466 Studies in Industrial Law 6
- LAW467 Studies in Trade Practices and Consumer Law 6
- LAW487 Special Topic in Law - A 6
- LAW488 Special Topic in Law - B 6
- LAW493 Research Essay 12

### Linguistics
The following subjects form part of the English Language Studies major, but may be taken independently:
- LANG110 An Introduction to Linguistics: The English Language 6
- LANG210 Communicating in a Foreign Language 8

### Management
(Taught by the Faculty of Commerce)
Management may be undertaken as a second major in the Bachelor of Arts, provided that the first major is selected from one of the major studies offered by the Faculty of Arts and provided that all the degree requirements are met.

To qualify for a major study in Management in the Bachelor of Arts, students must complete successfully the following subjects:
- ACCY100 Accounting IA 6
- ACCY102 Accounting IB 6
- MGMT102 Business Communications 6
- MGMT110 Introduction to Management 6
Course Structures

Either
MGMT201 Organisational Behaviour 6
or
PSYC351 Industrial and Organisational Psychology 6

Plus
MARK101 Introduction to Marketing 6
MARK398 Human Resource Management 6
MGMT314 Strategic Management 6
MGMT398 Human Resource Management 6

Plus 12 credit points from 300-level subjects offered by the Department of Management

Marketing

(Taught by the Faculty of Commerce)

Marketing may be undertaken as a second major in the Bachelor of Arts, provided that the first major is selected from one of the major studies offered by the Faculty of Arts and provided that all the degree requirements are met.

To qualify for a major study in Marketing in the Bachelor of Arts, students must complete successfully the following subjects:

MARK101 Introduction to Marketing 6
MARK217 Consumer Behaviour 6
MARK239 Information for Marketing Decisions 6
MARK270 Services Marketing 6
MARK319 Applied Marketing Research 6
MARK333 Advertising and Promotion Strategy 6
MARK344 Marketing Strategy 6

Plus 12 credit points from the following
MARK301 Marketing on the Internet 6
MARK317 Business to Business Marketing 6
MARK343 International Marketing 6
MARK356 New Product Marketing 6
MARK359 Sales Management 6
MARK395 Tourism Marketing 6
MARK397 Retail Marketing Management 6

Mathematics & Applied Statistics

(Taught by the Faculty of Informatics)

To satisfy the requirements for a major study in Mathematics, a student shall satisfactorily complete (at a grade of Pass or better) any MATH or STAT subjects listed below, to a total of at least 48 credit points; of which at least 18 credit points must be at 200 level and at least 24 credit points must be at 300 level.

To satisfy the requirements for a major study in Applied Statistics, a student shall satisfactorily complete (at a grade of Pass or better) any MATH or STAT subjects listed below, to a total of at least 48 credit points; of which at least 18 credit points must be at 200 level and must include STAT231 and STAT232; and at least 24 credit points must be for 300 level STAT subjects.

Students are welcome, and encouraged, to consult an academic adviser from the School of Mathematics and Applied Statistics about their choice of subjects.

For full details about pre-requisites etc, please refer to the Subject Database, by clicking on the subjects listed below.

All subjects may not be offered every year.

100-Level
MATH111 Applied Mathematical Modelling I 6
MATH112 Discrete Mathematics 6
MATH187 Mathematics 1A Part 1 6
MATH188 Mathematics 1A Part 2 6
STAT131 Understanding Variation and Uncertainty 6
<table>
<thead>
<tr>
<th>200-Level</th>
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<tbody>
<tr>
<td>MATH201 Multivariate and Vector Calculus</td>
<td>6</td>
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<tr>
<td>MATH202 Differential Equations II</td>
<td>6</td>
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<tr>
<td>MATH203 Linear Algebra</td>
<td>6</td>
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<tr>
<td>MATH204 Complex Variables and Group Theory</td>
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<tr>
<td>MATH212 Applied Mathematical Modelling II</td>
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<tr>
<td>MATH222 Continuous and Finite Mathematics</td>
<td>6</td>
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<tr>
<td>STAT231 Probability and Random Variables</td>
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<tr>
<td>STAT232 Estimation and Hypothesis Testing</td>
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<tr>
<th>300-Level</th>
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<tbody>
<tr>
<td>MATH302 Differential Equations III</td>
<td>6</td>
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<tr>
<td>MATH305 Partial Differential Equations</td>
<td>6</td>
</tr>
<tr>
<td>MATH312 Applied Mathematical Modelling III</td>
<td>6</td>
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<tr>
<td>MATH313 Industrial Mathematical Modelling</td>
<td>6</td>
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<tr>
<td>MATH316 Applied Dynamics</td>
<td>6</td>
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<tr>
<td>MATH317 Financial Calculus and Logistics</td>
<td>6</td>
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<tr>
<td>MATH321 Numerical Analysis III</td>
<td>6</td>
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<td>MATH322 Algebra</td>
<td>6</td>
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<td>MATH323 Topology and Chaos</td>
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<td>MATH324 Analysis</td>
<td>6</td>
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<tr>
<td>MATH371 Special Topics in Applied Mathematics</td>
<td>6</td>
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<tr>
<td>MATH372 Special Topics in Mathematical Analysis</td>
<td>6</td>
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<tr>
<td>STAT304 Operations Research and Applied Probability</td>
<td>6</td>
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<td>STAT332 Multiple Regression and Time Series</td>
<td>6</td>
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<td>STAT333 Statistical Inference and Multivariate Analysis</td>
<td>6</td>
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<tr>
<td>STAT335 Sample Surveys and Experimental Design</td>
<td>6</td>
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<tr>
<td>STAT373 Special Topics in Applied Statistics</td>
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<tr>
<th>400-Level</th>
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<tbody>
<tr>
<td>MATH401 Mathematics IV (Honours)</td>
<td>6</td>
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<tr>
<td>STAT401 Statistics IV (Honours)</td>
<td>6</td>
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<tr>
<td>INFO411 Data Mining and Knowledge Discovery</td>
<td>6</td>
</tr>
<tr>
<td>INFO412 Maths for Cryptography</td>
<td>6</td>
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</table>

Other subjects available
Other MATH/STAT subjects available are listed below, but note that these subjects cannot be counted in a Major in Mathematics or Applied Statistics.

<table>
<thead>
<tr>
<th>200-Level</th>
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<tbody>
<tr>
<td>MATH222 Probability and Logic</td>
<td>6</td>
</tr>
<tr>
<td>MATH141 Mathematics 1C Part 1</td>
<td>6</td>
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<tr>
<td>MATH142 Mathematics 1C Part 2</td>
<td>6</td>
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<tr>
<td>MATH143 Mathematics 1D Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH144 Mathematics 1D Part 2</td>
<td>6</td>
</tr>
<tr>
<td>MATH15 General Mathematics 1A</td>
<td>6</td>
</tr>
<tr>
<td>MATH283 Mathematics 2E for Engineers Part 1</td>
<td>6</td>
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<tr>
<td>STAT151 Introduction to the Concepts and Practice of Statistics</td>
<td>6</td>
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<tr>
<td>STAT252 Statistics for the Natural Sciences</td>
<td>6</td>
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<tr>
<td>PSYC354 Design and Analysis</td>
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</tbody>
</table>

**Philosophy**

Philosophy may be studied at first, second, third, and fourth year (Honours) levels, and at the postgraduate level. Various degrees of specialisation are possible. A major study in Philosophy is defined as follows:

**Philosophy Major**

A major in Philosophy comprises 52 credit points of PHIL subjects, of which at least 24 credit points are 300-level PHIL subjects (save that POL211 may be counted in place of one 200-level PHIL subject, or one of POL314 and POL324 may be counted in place of one 300-level PHIL subject, with the approval of the Head of Program). Philosophy studies within the Program divide into two broad streams of study - (1) Ethics, Politics and Law and (2) Knowledge, Mind and Metaphysics. It is recommended to students that they include in their major a spread of subjects across these two streams.
Students who enrolled in Philosophy prior to 1996 should consult the 1995 Calendar for the requirements for a major in Philosophy. Intending Honours students who enrolled in Philosophy prior to 1996 should note that, from 1996, PHIL322 Contemporary Theories of Knowledge and Metaphysics counts in lieu of PHIL352 Philosophical Problems II (which has been deleted from the Calendar). Students with enquiries about the requirements for a major in Philosophy should consult the Head of Program.

Philosophy Honours

Students who find that their interest in Philosophy is keen, and whose early work shows promise, are strongly recommended to plan a course of study which leaves open the possibility of taking a fourth (Honours) year, either exclusively in Philosophy ('Pure' Honours) or in conjunction with some other discipline ('Combined' Honours). An increasing number of other Programs within the University do permit the possibility of an Honours degree combined with Philosophy, and students interested in combining the study of Philosophy with the study of a discipline offered by another Program to Honours level should contact both Programs at the earliest opportunity, in order to ensure that they undertake a planned course of study which makes this possible at 400-level. Admission to the Honours year (400-level) in Philosophy (whether pure or combined) depends upon the quantity and quality of the student's philosophical studies at the 100-, 200-, and 300-levels, and compliance with the guidelines set out under (a) to (c) below.

Students contemplating progressing to Honours in Philosophy (pure or combined) should discuss their proposed program of study with the Philosophy Honours (400-level) co-ordinator at the beginning of each year of enrolment. (Students contemplating combined Honours should also consult the equivalent person in the other Program at the beginning of each year of enrolment.) Entry to Philosophy Honours is determined by a recommendation from the Head of the Philosophy Program in the case of 'pure' Honours candidates, and on the joint advice of the Heads of both Programs in the case of 'combined' Honours candidates, following the student's application to the University and the Program for admission to the Honours year. Students may expect to be recommended for admission to 'pure' Philosophy Honours candidature if they:

a) complete the requirements for a major in Philosophy, while including in their major at least one of PHIL284, PHIL301, PHIL390, PHIL232, PHIL283, and at least one of PHIL 262, PHIL322 PHIL288 or PHIL351

b) acquire a basic competence in formal logic (e.g., as certified by at least a pass in PHIL112 or PHIL216), and

c) attain an average of Credit or better in post 100-level PHIL subjects.

Students may expect to be recommended for admission to 'combined' Honours candidature (including Philosophy) if, in addition to meeting the above requirements, they also meet such requirements as are laid down by the other Program in which Honours candidature is proposed.

Notwithstanding these provisions the Head of the Philosophy Program may, in respect of any applicant for entry to Honours, request written work and/or the opinions of the applicant's previous teachers as further evidence of the applicant's capacity to undertake the study of Philosophy at advanced level.

Announcements

Official Program announcements concerning the details of subject requirements (e.g. deadlines for essays, procedures for applying for extensions etc.) and teaching arrangements (e.g. class times, locations, and variations) are made from time to time on the Philosophy Program noticeboard. Students are expected to consult the Program noticeboard regularly (at least once a week), and failure to consult the notice board will not be accepted as an excuse.

Assessment

Requirements vary from subject to subject and are set out in general terms in each of the subject entries. It should be noted that, notwithstanding any of these provisions, the Philosophy Program Assessment Committee may, at its discretion, in respect of any subject in which assessment is by a combination of (a) in-session work and (b) end of session or end of year examinations, attach greater weight to (b) than the aggregate of (a) and (b), should the level of performance under (b) disclose significant evidence of improvement in respect of the subject as a whole.

100-Level

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL101</td>
<td>Knowledge, World and Values A</td>
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</tr>
<tr>
<td>PHIL102</td>
<td>Body, Mind and Persons A</td>
<td>6</td>
</tr>
<tr>
<td>PHIL112</td>
<td>Logic A</td>
<td>6</td>
</tr>
<tr>
<td>PHIL151</td>
<td>Practical Reasoning A</td>
<td>6</td>
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200-Level

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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL201</td>
<td>Knowledge, World and Values B</td>
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</tr>
<tr>
<td>PHIL202</td>
<td>Body, Mind and Persons B</td>
<td>6</td>
</tr>
<tr>
<td>PHIL206</td>
<td>Practical Ethics</td>
<td>8</td>
</tr>
<tr>
<td>PHIL211</td>
<td>Greek Philosophy</td>
<td>8</td>
</tr>
<tr>
<td>PHIL214</td>
<td>Practical Reasoning B</td>
<td>8</td>
</tr>
</tbody>
</table>
**Politics**

The discipline of Politics is an exciting, vibrant and constantly changing body of ideas, approaches and methods. The Politics program offers subjects in Australian politics, political theory, international relations, comparative politics, the politics of developing countries, public policy, the post communist world and cultural studies across a broad range of countries from advanced industrial nations to developing and less developed countries. Students majoring in Politics are advised to study as broadly as possible across the areas offered by the discipline.

Political study involves examining the origins and nature of consent, authority and consensus, which underpin social order and without which all other human endeavours would become impossible. As a result political study inevitably involves morality and values but requires a sound knowledge of the political institutions, political economy, cultures, classes, genders, ethnicities and forces for change in the countries under analysis. Politics can occur at many levels from international relations to the nation state, public discourse and social relations, to personal and family relations.

Political studies at the University of Wollongong place considerable emphasis on developing strong theoretical foundations to equip students to analyse the continuing challenges of a Globalising world and their role within it. The discipline places a great deal of importance on the roles of culture and policy in both the developed and developing world.

**Major Study**

A major in Politics consists of 52 credit points, including at least 24 credit points at 300-level in Politics subjects. Graduates with a Politics major will normally have included at least one subject from each of the following areas in their program: (1) Australian Politics, (2) Political Theory and (3) the Politics of a country other than Australia or Comparative Politics or International Relations.
Course Structures

The following subjects, although they do not have a politics prefix, can be counted as part of the politics major: HIST210, HIST336 and HIST361. Students majoring in Politics may also count up to 16 cp from the following subjects: PHIL232, PHIL 270, PHIL 390, SOC 221, SOC 308. Note: students enrolled in a double major may only cross-count one subject.

NOTE: Certain Politics subjects can count towards a major in Communication Studies, History or Philosophy. Others are well-suited to programs containing a major in Resource and Environmental Studies.

If you are uncertain about any aspect of the above, please do not hesitate to contact a member of the Politics staff.

100-Level

POL111 Australian Politics 6
POL121 Politics in a Globalising World 6
POL141 Change and Debate in Contemporary Australian Politics 6

200-Level

POL211 Democracy in Theory and Practice 8
POL216 Politics in the USA 8
POL222 Australian Public Policy 8
POL224 Politics and the Media 8
POL225 International Relations: An Introduction 8
POL226 Australian Political Thought 8
POL230 Latin America: The Politics of Conquest and Colonisation 8
POL290 Women in Society: Productive and Reproductive and Labour 8
HIST210 The European Union: Post-war integration 1945 to 1995 8

300-Level

POL314 Power and the Modern State 8
POL315 Post-Communist Politics 8
POL317 Politics in the South Pacific 8
POL318 The Asian Tigers - Newly Industrialising Countries in Transition 8
POL319 Political Economy in the New Millennium 8
POL323 North and South: Approaches to Relations between Advanced, Industrialising and Less Developed Countries 8
POL324 Culture and Politics 8
POL368 Protest and Power in America: The Sixties 8
HIST336 Australian and War 1914 - 1972 8
HIST361 Fascism and the Authoritarian Right in Twentieth Century Europe 8

400-Level

POL401 Politics IV (Honours) 48
POL430 Joint Honours in Politics and another Discipline 48

History & Politics Joint Major

The History and Politics Program also offers a Joint Major for students with an interest in both disciplines. The Major offers students the opportunity to explore two disciplines without the need to complete two separate majors (sometimes known as a Double Major), and it offers students the opportunity to combine the specialist areas offered by the History and Politics Program. The Joint Major consists of a minimum of 76 credit points. A minimum of 38 credit points must be taken from History subjects and a minimum of 38 credit points must be taken from Politics subjects. Students taking the Joint Major must have completed at least one 100-level subject, one 200-level subject and one 300-level subject drawn from History subjects and at least one 100-level subject, one 200-level subject and one 300-level subject drawn from Politics subjects. The balance can be made up from any subjects from 100- to 300-level, providing pre-requisites have been met for the subjects chosen, or the waiving of pre-requisites has been approved by the Head of Program. At 300-level, students must have at least 24 cp of subjects from the History and Politics Majors.

Psychology

(Taught by the Faculty of Health and Behavioural Sciences)

Students please note: The course code for the Bachelor of Arts in the Faculty of Arts is 702. Students enrolled under Course Code 708 should refer to the Faculty of Health and Behavioural Sciences, which administers that degree.

For the Bachelor of Arts (Course code 702), Psychology major the following subjects must be undertaken.

Note: Subjects to the value of at least 72 credit points must be selected from subjects from approved Majors in the Bachelor of Arts (Course code 702).
100-Level
Students must complete all three 100-level subjects
PSYC121 Foundations of Psychology A 6
PSYC122 Foundations of Psychology B 6
PSYC123 Theory, Design and Statistics in Psychology 6

200-Level
Students intending to complete three years of Psychology only, must complete PSYC232, plus three Psychology elective subjects. An elective must be a 200 level subject, excluding PSYC216, and must include at least one from each of the following groups:
Group A - PSYC231, PSYC241
Group B - PSYC234, PSYC236

Students intending to proceed to an honours year in Psychology must complete PSYC232 and PSYC235, together with three electives from the following subjects: PSYC231, PSYC241, PSYC234, PSYC236.

300-Level
Prerequisites: 24 credit points of Psychology at 200-level (excluding PSYC216) should be completed as a general pre-requisite to 300 level subjects. Further specific pre-requisites are indicated in brackets.

Students intending to complete three years of Psychology only, must complete three Psychology electives, including at least one from each of the following groups:
Group A - PSYC317, PSYC345, PSYC349, PSYC352
Group B - PSYC315, PSYC318, PSYC347, PSYC348, PSYC350

Students intending to proceed to Honours in Psychology must complete PSYC348 and PSYC354, together with three electives which must include at least one from each of the following groups:
Group A - PSYC315, PSYC318, PSYC347, PSYC350
Group B - PSYC317, PSYC345, PSYC349, PSYC352

Resource & Environmental Studies
Many environmental problems are not technical issues but involve political struggles, ethical choices, human behaviour, economic trade-offs and value conflicts over scientific knowledge. To tackle these wider social dimensions intrinsic to most environmental issues of concern today, a wide-ranging social analysis is valuable and often essential.

The major study in Resource and Environmental Studies combines study from areas such as economics, geography, law, philosophy, and science, technology and society. It looks at environmental issues from a social science perspective.

For further information please contact the Science, Technology and Society Program.
A major study in Resource and Environmental Studies for the Bachelor of Arts degree is available by undertaking the following program. It must include at least 24 credit points at 300-level.

A major in Resource and Environmental Studies involves an interdisciplinary combination of core and optional subjects totalling from 70 to 98 credit points, depending on the options chosen. The core is made up of five subjects from Australian Studies, Geosciences, Science, Technology and Society and Philosophy. Students must also choose optional subject sequences from two of four areas: Science, Technology and Society, Geosciences, Law or Economics.

### Core

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUST101</td>
<td>Australian Studies: Cultures and Identities</td>
<td>6</td>
</tr>
<tr>
<td>GEOS142</td>
<td>The Human Environment: Problems and Change</td>
<td>6</td>
</tr>
<tr>
<td>STS116</td>
<td>Environment in Crisis: Technology and Society</td>
<td>6</td>
</tr>
<tr>
<td>PHIL256</td>
<td>Ethics and the Environment A</td>
<td>6</td>
</tr>
<tr>
<td>STS300</td>
<td>The Environmental Context</td>
<td>8</td>
</tr>
</tbody>
</table>

### Options

Two of sequences A, B, C and D must be completed.

#### Sequence A

Both of the following:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON309</td>
<td>Environmental Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON311</td>
<td>Natural Resource Economics</td>
<td>8</td>
</tr>
</tbody>
</table>

(Note: students undertaking sequence A are strongly recommended to take ECON111, Introductory Microeconomics. Furthermore, to be able to handle ECON311 well, it is recommended that students also take ECON215, Microeconomic Theory and Policy.)

#### Sequence B

At least 14 credit points from the following:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS242</td>
<td>Living in Cities</td>
<td>6</td>
</tr>
<tr>
<td>GEOS246</td>
<td>A Hungry World: Food Resources and the World Economy</td>
<td>6</td>
</tr>
<tr>
<td>GEOS231</td>
<td>Environmental Impact of Societies</td>
<td>6</td>
</tr>
<tr>
<td>GEOS347</td>
<td>Northern Neighbours: Economic and Social Change in the Asia Pacific Rim</td>
<td>8</td>
</tr>
<tr>
<td>GEOS349</td>
<td>Population, Health and Environment</td>
<td>8</td>
</tr>
</tbody>
</table>

(Note: students undertaking sequence B are also encouraged to consider taking GEOS112, Physical Environments. Students must have successfully completed at least one 200-level subject as a prerequisite for 300-level subjects.)

#### Sequence C

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS200</td>
<td>Social Aspects of Science and Technology</td>
<td>8</td>
</tr>
<tr>
<td>STS238</td>
<td>Changing Images of Nature and the Environment</td>
<td>8</td>
</tr>
<tr>
<td>STS329</td>
<td>Scientific and Technological Controversy</td>
<td>8</td>
</tr>
<tr>
<td>STS335</td>
<td>The Politics of Risk</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Sequence D

All of the following:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td>LAW308</td>
<td>Administrative Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW334</td>
<td>Environmental Law</td>
<td>6</td>
</tr>
</tbody>
</table>

### Science, Technology and Society

Modern science and technology underpin almost every feature of our society. They impinge daily upon our lives and shape our futures. Science, Technology and Society is the academic discipline which studies the origin, nature and social impact of science and technology.

To be considered fully educated today, you must have learned to examine for yourself questions such as, 'What are science and technology? Why and how have they grown in Western Societies? How can we best control and direct science and technology?' In the past generation there has been a revolution in our understanding of the answers to these questions. The field of Science, Technology and Society is where this intellectual revolution is taking place. STS has a long and distinguished history in European and North American Universities. In the last twenty-five years it has undergone enormous expansion. In Australia there are now STS programs at Melbourne, NSW, Murdoch, Griffith, as well as here at Wollongong, where we have one of the longest established programs in the country.
Taking a major in STS will help equip you to play a productive role as a manager of technological change in industry, as a policy analyst in government, as a commentator on scientific and technological controversies in the media, or as a researcher helping us further understand the way science and technology develop and can be shaped to best serve humanity. STS can be studied as a major, leading to Honours, Masters and PhD programs; as a joint major with another subject (eg with History, Sociology, English, Psychology or Philosophy); or STS subjects can be selected to complement majors in these subjects or in others, such as Science, Economics, Accountancy, Education, Metallurgy and Computing Science.

### STS Major

60 credit points, including:

(a) 52 cp of STS, including:

i) either STS100/103/200/203 Social Aspects of Science and Technology or STS229/329 Scientific and Technological Controversy

ii) at least 24 cp of STS at 300-level.

(b) An additional 8 cp may be taken from the following: any STS subject; AUST101; CCS105; CCS334; CCS337; HIST338; HIST363; PHIL256; PHIL258; PHIL262; PHIL322; POL121; POL224; POL314; SOC104; SOC221; SOC231; SOC241.

### STS Subject List

Many of the STS subjects have multiple versions depending on level, credit points and mode of delivery. Students will need to choose the subject appropriate to their program of study. In general, subject numbers beginning with the number one are for 1st year students, with a two are for 2nd year students and with a three are for third year students.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS100</td>
<td>Social Aspects of Science and Technology</td>
<td>6</td>
</tr>
<tr>
<td>STS200</td>
<td>Social Aspects of Science and Technology</td>
<td>8</td>
</tr>
<tr>
<td>STS103</td>
<td>Social Aspects of Science and Technology</td>
<td>6</td>
</tr>
<tr>
<td>STS203</td>
<td>Social Aspects of Science and Technology</td>
<td>8</td>
</tr>
<tr>
<td>STS112</td>
<td>The Scientific Revolution: History, Philosophy and Politics of Science</td>
<td>6</td>
</tr>
<tr>
<td>STS212</td>
<td>The Scientific Revolution: History, Philosophy and Politics of Science</td>
<td>8</td>
</tr>
<tr>
<td>STS117</td>
<td>The Scientific Revolution: History, Philosophy and Politics of Science</td>
<td>6</td>
</tr>
<tr>
<td>STS217</td>
<td>The Scientific Revolution: History, Philosophy and Politics of Science</td>
<td>8</td>
</tr>
<tr>
<td>STS116</td>
<td>Environment in Crisis: Technology and Society</td>
<td>6</td>
</tr>
<tr>
<td>STS216</td>
<td>Environment in Crisis: Technology and Society</td>
<td>6</td>
</tr>
<tr>
<td>STS218</td>
<td>Environment in Crisis: Technology and Society</td>
<td>8</td>
</tr>
<tr>
<td>STS120</td>
<td>Technology in Society: East and West</td>
<td>6</td>
</tr>
<tr>
<td>STS220</td>
<td>Technology in Society: East and West</td>
<td>8</td>
</tr>
<tr>
<td>STS221</td>
<td>Technology in Society: East and West</td>
<td>6</td>
</tr>
<tr>
<td>STS128</td>
<td>Computers in Society</td>
<td>6</td>
</tr>
<tr>
<td>STS228</td>
<td>Computers in Society</td>
<td>6</td>
</tr>
<tr>
<td>STS215</td>
<td>Globalisation: Science, Technology and Progress</td>
<td>8</td>
</tr>
<tr>
<td>STS315</td>
<td>Globalisation: Science, Technology and Progress</td>
<td>8</td>
</tr>
<tr>
<td>STS223</td>
<td>The Politics of Medicine and Health</td>
<td>6</td>
</tr>
<tr>
<td>STS323</td>
<td>The Politics of Medicine and Health</td>
<td>8</td>
</tr>
<tr>
<td>STS229</td>
<td>Scientific and Technological Controversy</td>
<td>8</td>
</tr>
<tr>
<td>STS329</td>
<td>Scientific and Technological Controversy</td>
<td>8</td>
</tr>
<tr>
<td>STS235</td>
<td>The Politics of Risk</td>
<td>8</td>
</tr>
<tr>
<td>STS335</td>
<td>The Politics of Risk</td>
<td>8</td>
</tr>
<tr>
<td>STS376</td>
<td>The Politics of Risk</td>
<td>8</td>
</tr>
<tr>
<td>STS238</td>
<td>Changing Images of Nature and the Environment</td>
<td>6</td>
</tr>
<tr>
<td>STS240</td>
<td>Technological change, popular culture and new media</td>
<td>8</td>
</tr>
<tr>
<td>STS241</td>
<td>Technological change, popular culture and new media</td>
<td>8</td>
</tr>
<tr>
<td>STS340</td>
<td>Technological change, popular culture and new media</td>
<td>8</td>
</tr>
<tr>
<td>STS250</td>
<td>From Molecular Genetics to Biotechnology</td>
<td>8</td>
</tr>
<tr>
<td>STS350</td>
<td>From Molecular Genetics to Biotechnology</td>
<td>8</td>
</tr>
<tr>
<td>STS260</td>
<td>Technology and Body Politics</td>
<td>8</td>
</tr>
<tr>
<td>STS360</td>
<td>Technology and Body Politics</td>
<td>8</td>
</tr>
<tr>
<td>STS288</td>
<td>Science and the media</td>
<td>8</td>
</tr>
<tr>
<td>STS388</td>
<td>Science and the media</td>
<td>8</td>
</tr>
<tr>
<td>STS300</td>
<td>The Environmental Context</td>
<td>8</td>
</tr>
<tr>
<td>STS306</td>
<td>Special Topics in the Social and Policy Aspects of Engineering</td>
<td>6</td>
</tr>
<tr>
<td>STS399</td>
<td>Research Topics in Science Technology and Society</td>
<td>8</td>
</tr>
</tbody>
</table>
Course Structures

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS400</td>
<td>Science Technology and Society Studies Honours</td>
<td>48</td>
</tr>
<tr>
<td>STS430</td>
<td>Joint Honours in Science and Technology Studies and Another Discipline</td>
<td>24</td>
</tr>
</tbody>
</table>

**Double Major in Science, Technology and Society and Business Information Systems**

Double major in STS and BUSS: Students wishing to consider this option should first consult with the Heads of BUSS and STS.

**Joint Major in Sociology & Science, Technology & Society (STS)**

Joint major in STS and Sociology: Students wishing to consider this option should first consult with the Heads of Sociology and STS. The full requirements of the joint major are set out in the Sociology entry.

**Sociology**

The Sociology program introduces students to the three vital areas of study in social science: research methods, social and public policy and social theory. Research methods subjects stress the ability to formulate specific and relevant research questions and the acquisition of skills in teamwork, project development and report writing. Policy subjects also emphasise an understanding of contemporary Australian society and the development of policy writing, lobbying, evaluation and analysis. Social theory is essential for any meaningful analysis of the complexities of everyday life. Theory makes possible critical reflections on taken-for-granted aspects of contemporary societies.

The undergraduate course seeks to develop in students The Sociological Imagination: those critical and analytical skills which are essential to understanding the social world in which we live. The first year introduces students to this ‘Imagination’, to the skills required to understand and evaluate sociological argument and to a range of social relations which provide the raw material of the discipline. The second year consists of core and elective subjects. Students who are majoring in the discipline need to successfully complete the three core subjects SOC203, Developing Sociological Theories; SOC231, Introduction to Social Research and SOC306 Sociological Research: Methodology and Practice. In these they are acquainted with the theoretical and methodological tools which will enable them to become competent in sociological analysis, and find jobs as sociology graduates.

**Honours**

Students majoring in Sociology are encouraged to consider undertaking the Honours program. Entry into the 4th Year BA (Hons) program in Sociology is normally available to students who attain a High Credit average in two 300-level Sociology subjects. Students who may be considering Sociology Honours should consult with the Head of Program at their earliest convenience during their second or third year of Sociology study.

A number of options are available for students to complete Combined Honours in Sociology and another discipline, eg. History, Psychology, STS, CCS, Geography or English. Students wishing to consider this option should first consult with the Heads of both Programs. If possible, this should be done during the second year.

**Postgraduate Studies in Sociology**

Students should consult the Postgraduate Calendar for details of course structure and content.

**Major Study**

A major in Sociology consists of at least 54 credit points:

a) at least 6 credit points of Sociology at 100-level;

b) at least 24 credit points at 200-level including SOC203 and SOC231 and an elective from Sociology subjects or a subject chosen from the list of other approved subjects at 200-level listed below;

c) 24 credit points at 300-level including SOC306 and one other SOC subject. The remaining 8 credit points may be a SOC subject or a subject from the list of other approved subjects at 300-level listed below.

**100-Level**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC103</td>
<td>Aspects of Australian Society</td>
<td>6</td>
</tr>
<tr>
<td>SOC104</td>
<td>Communication, Media and Society</td>
<td>6</td>
</tr>
</tbody>
</table>

**200-Level**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC203</td>
<td>Developing Sociological Theories</td>
<td>8</td>
</tr>
<tr>
<td>SOC204</td>
<td>Culture, Power and Social Change</td>
<td>8</td>
</tr>
<tr>
<td>SOC205</td>
<td>Sociology of the Family</td>
<td>8</td>
</tr>
<tr>
<td>SOC221</td>
<td>Political Sociology</td>
<td>8</td>
</tr>
<tr>
<td>SOC222</td>
<td>Sociology of Crime and Justice</td>
<td>8</td>
</tr>
<tr>
<td>SOC231</td>
<td>Introduction to Social Research</td>
<td>8</td>
</tr>
</tbody>
</table>

104
Faculty of Arts

SOC241 Culture and Communication  8
SOC242 Contemporary Issues in Society  8
SOC243 Contesting Asia: Culture, Diversity, Difference  8
SOC244 Punishment: Purpose, Practice, Policy  8

Other approved 200-level subjects
(students may include one subject in the Sociology major)

AUSTR246 A Sociology of Australia's Indigenous People: Contemporary Issues and Debates  8
HIST287 Southeast Asian Transformations  8
PHIL232 Political Philosophy  8
PHIL286 Philosophy of Social Science  8
POL224 Politics and the Media  8
POL290 Women in Society: Productive and Reproductive Labour  8

300-Level

SOC302 Contemporary Social and Political Thought  8
SOC303 The Individual in Society  8
SOC305 Race and Ethnic Studies  8
SOC306 Sociological Research: Methodology and Practice  8
SOC307 Urban Society  8
SOC308 Social and Public Policy  8
SOC309 Social Movements  8
SOC318 Sociology of Development  8
SOC330 The Sociology of Gender Relations  8
SOC334 Bread and Circuses  8
SOC341 Special Topics in Sociology  8
SOC349 Social Regulation: Policies and Issues  8

Other approved 300-Level subjects
(students may include one subject in the Sociology major)

PHIL390 Contemporary Political Philosophy  8
POL314 Power and the Modern State  8
POL318 The Asian Tigers: Newly Industrialising Countries in Transition  8

400-Level #

SOC400 Sociology IV Honours  48
SOC450 Joint Honours in Psychology and Sociology  48
SOC451 Joint Honours in Sociology and Another Discipline  48

Joint Majors in Sociology & Other Disciplines/Faculties

A number of options are available for students to complete joint majors in Sociology and another discipline, eg. Aboriginal Studies, CCS, Health Science, Human Geography, Legal Studies, and STS. Students wishing to consider these options should first consult with the Heads of both Programs.

Joint Major in Sociology and Science, Technology and Society (STS)

This joint major is intended for students whose main disciplinary interest is in the sociology of science and technology. The joint major provides both depth in sociological theory and examination of a range of issues in science and technology. It is a joint major rather than a double major. However, by taking additional subjects in STS and Sociology the joint major can be converted into a double major. There are a total of 76 compulsory cp within the program.

Sociology requirements: At 100-level, students must do 6 cp of Sociology subjects at 100-level, including at least one of SOC103 or SOC104.

At 200-level, students must do SOC203 Developing Sociological Theories and SOC231 Introduction to Social Research.

At 300-level, students must do SOC306 Sociological Research and one other Sociology subject.

STS requirements: 38 cp of STS, including STS100 Social Aspects of Science and Technology or STS229 Scientific and Technological Controversy, with at least 16 cp at 300-level.

Sociology/Health Science - Refer to Health and Behavioural Sciences Schedule.
Spanish

The following subjects are included in the European Studies major, but may be taken independently:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN151</td>
<td>Spanish for Beginners I</td>
<td>6</td>
</tr>
<tr>
<td>SPAN152</td>
<td>Spanish for Beginners II</td>
<td>6</td>
</tr>
</tbody>
</table>

Bachelor of Arts - Bachelor of Commerce

To qualify for the award of the double degree of Bachelor of Arts, Bachelor of Commerce a candidate shall accrue an aggregate of at least 216 credit points by satisfactory completion of subjects approved for inclusion in the Bachelor of Arts (702), the Bachelor of Commerce and the General Schedule.

The 216 credit points shall include:

i) the subjects prescribed for one of the majors or combined majors for the Bachelor of Commerce degree;

ii) at least 72 credit points, including a major study, for subjects listed in the Arts Course Structures, and including at least 36 credit points for subjects offered by member Units of the Faculty of Arts;

iii) not more than 96 credit points for 100-level subjects.

The Arts major study and the Commerce major are to be chosen from two different disciplines.

The requirements for all Commerce majors are listed under the Bachelor of Commerce within the Faculty of Commerce.

An Honours degree of Bachelor of Arts or Bachelor of Commerce requires additional study (one year full-time, or two years part-time) and may be undertaken by students who meet the requirements for enrolment in Honours.

Students undertaking a major study in Modern Languages are required to discuss their academic program with the Course Co-ordinator of the relevant language. Students in the Japanese major study undertake some Summer Session study.

Bachelor of Arts - Bachelor of Laws

Refer to the Faculty of Law section for details of this double degree program.

Bachelor of Creative Arts - Bachelor of Arts

To qualify for award of the double degree of Bachelor of Creative Arts, Bachelor of Arts a candidate shall accrue an aggregate of at least 216 credit points by satisfactory completion of subjects approved for inclusion in the Bachelor of Creative Arts, the Bachelor of Arts and the General Schedule.

The 216 credit points shall include:

i) a major study (108 credit points) as set out for the Bachelor of Creative Arts;

ii) at least 72 credit points, including a major study, for subjects listed in the Arts Course Structure and including at least 36 credit points for subjects offered by members units of the Faculty of Arts;

iii) not more than 96 credit points for 100-level subjects.

Where necessary, elective subjects to ensure a total of 216 credit points have been completed.

Bachelor of Engineering - Bachelor of Arts

Refer to the Faculty of Engineering section for details of this double degree program.

Bachelor of Science - Bachelor of Arts

Refer to the Faculty of Science section for details of this double degree program.
ARTS SUBJECT DESCRIPTIONS

ABST100 Introduction to Aboriginal Cultures 6cp
Spring Wollongong On Campus
Contact Hours: 3.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1. web-based library assignment (10%) 2. literature review (20%) 3. tutorial project (30%) 4. major essay (40%)
Subject Description: This subject provides an introduction to the relationships between Aboriginal Peoples, land and cultures from pre-European to present times. Topics will vary from time to time, but could include identities, kinship, gender, childhood, Elders, authority, decision-making, conflict management, language, communication and local organisations. The subject has a particular emphasis on identifying and maintaining the cultural heritage of South Coast Aboriginal Peoples.
Subject Objectives: On successful completion of this subject each student will be able to: 1. Locate, retrieve and evaluate select bibliographic information on the cultures of Aboriginal Peoples, 2. Utilise appropriate referencing and essay writing methods, 3. Critique a select anthropological text on Aboriginal South Coast Peoples, 4. Articulate and evaluate their relationship with the Aboriginal culture of the locality in which they live, 5. Identify and describe at least feature of a South Coast Aboriginal culture, and 6. Critically discuss the significance of at least one feature of a South Coast Aboriginal culture to the Aboriginal people of that area.

ABST150 Introduction to Aboriginal Australia 6cp
Spring Wollongong On Campus
Spring Shoalhaven Flexible
Spring Bega Education Access Centre
Spring Batemans Bay Flexible
Spring Wollongong On Campus
Contact Hours: 3
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1. Minor Essay (10%) 2. Tutorial Presentation (20%) 3. Tutorial Paper (20%) 4. Reflective Journal (40%) 5. Attendance/Participation (10%)
Subject Description: This subject provides (international and local) students with a general introduction to cultures, histories, and select current issues within Aboriginal Australia, through the key concepts of colonisation and sites of struggle. Topics will vary, but may include include the Dreaming, identity, kinship, music, art, literature, language, government policies to the 1990s, land rights, sovereignty, and appropriation of Aboriginality.
Subject Objectives: On successful completion of this subject each student will be able to: 1. Display literature retrieval skills relevant to a select area of Aboriginal culture, history or contemporary issues, 2. Utilise appropriate referencing and essay writing methods, 3. Display a capacity to orally articulate at least one key theme in Aboriginal culture and history, 4. Explain the significance of the Dreaming in relation to at least one aspect of Aboriginal cultures, 5. Demonstrate a basic understanding of the key concept of colonisation in relation to at least one aspect of Aboriginal culture or history, 6. Identify, describe and analyse at least one aspect of Aboriginal culture or history as a site of struggle for Aboriginal peoples, and 7. Identify and describe the significance to Aboriginal peoples of at least one contemporary issue.

ABST200 Aboriginal History Since Invasion 8cp
Autumn Wollongong On Campus
Spring Shoalhaven Flexible
Spring Bega Education Flexible Access Centre
Spring Batemans Bay Flexible
Spring Wollongong - 3; Other - information not available.
Contact Hours: Wollongong - 3; Other - information not available.
Pre-requisites: ABST100 plus 6cp at 100 level or ABST150 plus 6cp at 100 level or VIS123 plus 6cp at 100 level or NURS144 plus 6cp at 100 level.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1. Class Assignment(10%) - 2 parts, 500 words each. 2. bibliographic critique (20%) - 1000-1500 words. 3. tutorial assignment (30%) - 1500-2000 words. 4. practical or theoretical major project (40%) - 2500-3000 words.
Subject Description: This subject introduces students to the field of Aboriginal history, with emphasis on directions set by Aboriginal historians. It also explores the oral tradition, and develops student understandings of the complexities of Aboriginal histories from 1788 by discussing a range of themes. Within this context the subject also encourages the exploration and retrieval of Aboriginal histories of the South Coast.
Subject Objectives: On successful completion of this subject each student will be able to: 1. Critically discuss the differences between non-Aboriginal and Aboriginal directions in Aboriginal history, 2. Identify and explain the significance of at least one theme in history in relation to the contemporary situation of Aboriginal Peoples, 3. Locate, retrieve and evaluate bibliographic information on at least one government-related report pertinent to a select theme in Aboriginal history, 4. Demonstrate a critical understanding of the nature and role of colonial perceptions in contemporary relations between Aboriginal and non-Aboriginal Australia. 5. Utilise referencing and essay writing methods appropriate to the field of history.

ABST300 Indigenous Theories of Decolonisation 8cp
Spring Wollongong On Campus
Spring Shoalhaven Flexible
Spring Bega Education Access Centre
Spring Batemans Bay Flexible
Contact Hours: 3
Pre-requisites: ABST100 and ABST200 plus 8cp at 200 level.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1. Bibliographic/Internet Assignment (10%) 2. Oral Presentation (10%) 3. Seminar Paper (20%) 4. Essay Plan (20%) 5. Major Assignment (40%)
Subject Description: This subject aims to enhance students' sociological and historical understandings of the processes of
decolonisation and their own relationship to these processes. It examines a range of international and local theories formulated by Indigenous Peoples (such as Fanon, Frère, Langton, Memmi, Min-Ha, Nandy and others) and explores their relevance to the Australian situation. Key themes within this subject are power and empowerment at global, national, community and individual levels.

**Subject Objectives:** Information unavailable.

**ABST301 Research Methods and Issues in Aboriginal Studies** 8cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** (ABST100) plus at least 16 credit points at 200-level including (ABST200)

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Information unavailable.

**Subject Description:** This subject provides a systematic exploration of newly-emerging ideas on Indigenous research methodologies, and examines the implications of these for Aboriginal Studies in Australia. It also provides students with opportunities to explore select research techniques and evaluate their suitability for Aboriginal Studies. Students will also construct a detailed research proposal and undertake a research project.

**Subject Objectives:** Information unavailable.

**ABST350 Special Topic in Aboriginal Studies** 8cp

**Spring**

**Wollongong On Campus**

**Contact Hours:** Information unavailable.

**Pre-requisites:** ABST100 and ABST200 plus 22cp plus Approval of the Head of the Aboriginal Education Centre.

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Information unavailable.

**Subject Description:** This is a reading, or reading and research, subject offered under the direct supervision of one or more members of Aboriginal Studies staff. Topics for this subject may be chosen from any area of Aboriginal Studies which the Head of Program considers to be of suitable substance and level. As this subject is only offered depending on the availability of supervisory staff, students must consult with the Head of Program before enrolling.

**Subject Objectives:** Information unavailable.

**ABST381 Issues in Aboriginal Education** 8cp

**Autumn**

**Wollongong On Campus**

**Contact Hours:** 3.

**Pre-requisites:** (ABST100) or (ABST150) or (equivalent approved by the Head of Program)

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** Not to count with EDUF221, EDUE302 or EDUE402

**Assessment:** Requirement to attend at least 80% of scheduled seminars. 1. Seminar Assignment (50%) 2. Major Project or Essay (50%)

**Subject Description:** Provides students with historical and sociological understandings of the significant role formal education has played/plays as a site of cultural and political struggle for Aboriginal people. Through various topics (eg: history of Aboriginal education, current policies, Aboriginal views on education) students will explore select key concepts (assimilation, institutional racism, colonisation, resistance, self-determination, decolonisation) with special attention to the preferred Aboriginal model of 'two ways' education.

**Subject Objectives:** On successful completion of this subject each student will be able to: 1. Clearly demonstrate an understanding of select concepts pertinent to Aboriginal education, especially assimilation, colonisation, institutional racism, resistance, and self-determination. 2. Explain the concept of 'both ways education' and its relationship with self-determination. 3. Critically discuss current aims of Aboriginal Education policies (NSW & Commonwealth). 4. Identify some cultural sensitive ways of understanding Aboriginal youth behaviour in formal education systems.

**ABST382 Aboriginal Pedagogy** 8cp

**Spring**

**Wollongong On Campus**

**Contact Hours:** Information not available.

**Pre-requisites:** (ABST100) or (ABST150) or (equivalent approved by the Head of Program)

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** Not to count with EDUF222, EDUE302 or EDUE402

**Assessment:** Required attendance at at least 80% of scheduled seminars. 1. Community Consultation Assignment (50%) - 2500 words broken down into 6 smaller tasks over the Semester. 2. Major Project or Essay (50%) - 3000 words.

**Subject Description:** Explores Aboriginal teaching and learning styles and approaches to knowledge in order to develop theoretical understandings and professional skills that will facilitate: consultation with Aboriginal communities; identifying and meeting the needs of Aboriginal learners; and designing culturally-appropriate programs. Includes analysis of differences between cultural education, Aboriginal education, Aboriginal studies, cultural studies, and anti-racist education, but focuses on Aboriginal education and Aboriginal studies.

**Subject Objectives:** On successful completion of this subject each student will be able to: 1. Demonstrate understanding of the cultural and educational limitations and strengths of own expertise as a teacher of Aboriginal learners. 2. Demonstrate understanding of the cultural and educational limitations and strengths of own expertise as a teacher of Aboriginal Studies. 3. Recognise range of culturally & educationally appropriate strategies for teaching Aboriginal learners. 4. Recognise at least one key strategy for developing Aboriginal perspectives in the curriculum. 5. Evaluate strategies for consulting with Aboriginal community organisations about education.

**ARTS112 People and Place** 6cp

**Autumn**

**Moss Vale Flexible**

**Autumn**

**Shoalhaven Flexible**

**Autumn**

**Bega Education Flexible**

**Autumn**

**Batemans Bay Flexible**

**Contact Hours:** 2 hour seminar.

**Pre-requisites:** None

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Essay 1 (500-750 words) 15%; Annotated Bibliography (1,000 words) 30%; Essay 2 (1,200 words) 35%; Participation 20%

**Subject Description:** This subject will explore the idea of contested understandings of what it means to be Australian.
The course will focus on a number of key areas and explore the ways in which a person's gender, ethnicity, class and citizenship status effect their experiences of living in this nation. The areas analysed are: the home, the paid work place, the environment and national spaces (memorials etc). The course also focuses on the ways in which some groups are excluded from important political, cultural and social and economic rights. In particular the exclusion of Indigenous people, women and migrants from full and equal participation is explored.

**Subject Objectives:** On successful completion of this subject, a student will be able to: 1) identify the key cultural, political, and historical debates about the meanings of place in Australian society; 2) demonstrate basic skills in accessing a range of research resources including library reference, journals, books and the internet; 3) demonstrate a capacity to write critical responses to quite complex cultural and social issues and problems; 4) effectively present research findings in a variety of written forms; 5) demonstrate a range of skills that enable the critical examination of various sources on Australian cultures and histories. 6) demonstrate in discussion forums an appreciation of and respect for cultural and intellectual diversity.

**ARTS113 Society and Representation 6cp**

- **Spring**
  - Moss Vale: Flexible
  - Shoalhaven: Flexible
  - Batemans Bay: Flexible
  - Bega Education: Flexible
  - Access Centre

**Contact Hours:** 2hrs.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:**
- 1take-home test 15%; 1 library skills (ungraded but compulsory); 2 presentations 30%; 1 essay 45%; participation 10%

**Subject Description:** This subject introduces the idea that reality is meaningful once represented through sign systems including an interaction of textual conventions, social practices and cultural knowledges. It provides examples of different texts (literary and non-literary), practice in analysis and expression of argument, focussed around the topics of text, nature, gender and education. It proposes that meanings are always multiple and negotiated though based within structuring codes/discourses.

**Subject Objectives:** On completion of ARTS113, the successful student will: 1. be a confident beginning user of email, chatgroups and webpages; 2. have an understanding of how 'reality' is mediated by representation; 3. be able to recognise basic features of major media and genre conventions; 4. be able to identify discursive constructions of gender, nature, education; 5. be capable of producing a systematic interpretation of a number of text-types; 6. have skills in sustaining an argument orally and in writing/defending such; 7. be tolerant to other views while vigorously sifting valid from invalid reason; 8. be self-reflexive about positionality and meaning-making; and 9. have basic skills in accessing a range of library resources.

**ARTS211 Social Science Perspectives on Health and Illness 6cp**

- **Autumn**
  - Wollongong: On Campus

**Contact Hours:** 3 hrs either in classroom or computer lab.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** SOC111

**Assessment:** Small group research presentation (20%); Worksheets on skills development (30%); Short essay (20%); Report (30%).

**Subject Description:** Australian society provides the context for an examination of the major perspectives that inform the analysis of the social power relations that shape patterns of health and illness and the provision of health care services. Students will apply the theoretical frameworks to contemporary issues in health and illness including the introduction of new technologies, the practical meanings of care for different health professions and representations of health and illness in the popular media. The focus on small group learning activities means students have an opportunity to share knowledge and develop their ideas together.

**Subject Objectives:** On completing the subject successfully, students will be able to: 1. To identify social power relations in the health care setting including: the hierarchy of professional relationships; inequalities in the patient provider relationship, and issues in the distribution health care resources in a community. 2. To discuss the bases of the power relations in terms of concepts including ethnicity, gender, class, race and age. 3. To use a social science method to observe and describe media representations of social power relations in a health care setting. 4. To discuss and analyse social relations in the form of an essay and a short report. 5. To work in teams to enhance learning.

**ASIA299 Special Topics in South East Asian Studies 8cp**

- **Summer 2002/2003**
  - Wollongong: Flexible

**Contact Hours:** Contact Study Abroad Office for more information.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:**
- Essays and examination

**Subject Description:** Students will undertake a subject in a Southeast Asian university. At present exchange agreements exist with Prince of Songkla University in Thailand, Gadjah Mada University in Indonesia and the University of Indonesia, enabling subjects from those universities to be taken as part of a Wollongong BA. Subjects from other universities can be taken by arrangement with the Subject Director, Associate Professor Adrian Vickers.

**Subject Objectives:** Information unavailable

**ASIA399 Special Topics in South East Asian Studies 8cp**

- **Summer 2002/2003**
  - Wollongong: Flexible

**Contact Hours:** Contact Study Abroad Office for more information.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Essays and examination

**Subject Description:** Students will undertake a subject in a Southeast Asian university. At present exchange agreements exist with Prince of Songkla University in Thailand, Gadjah Mada University in Indonesia and the University of Indonesia, enabling subjects from those universities to be taken as part of a Wollongong BA. Subjects from other universities can be taken.
### Subject Descriptions

by arrangement with the Subject Director, Associate Professor Adrian Vickers.

**Subject Objectives:** information unavailable

#### AUST101 Australian Studies: Cultures and Identities

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<tr>
<th>Semester</th>
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<th>Delivery</th>
<th>Contact Hours</th>
<th>Pre-requisites</th>
<th>Co-requisites</th>
<th>Restrictions</th>
<th>Exclusions</th>
<th>Assessment</th>
<th>Subject Description</th>
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<tbody>
<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>On Campus</td>
<td>3 hrs lecture, 2hr seminar</td>
<td>(AUST101 and AUST246)</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>essay 1 (1,200 words) 30%; essay 2 (2,000 words) 40%; annotated bibliography 20%; participation 10%.</td>
<td>This subject introduces students to some of the important issues and academic debates about identities in Australia. It explores some of the principal features that characterise images of Australia, Australians and the Australian continent. It approaches the subject from an historical and cultural perspective and asks what 'being Australian' has meant to different people at different times, both for the social groups and individuals who have shaped dominant notions of national identity and those who have challenged them. What did it mean, for example, to Indigenous people, to women, to immigrants? The subject also critically examines expressions of Australian identity through some of its national rites and rituals such as Australia Day, Anzac Day, tourism, sport and national spectacles such as the Olympics. Subject Objectives: On successful completion of this subject, a student will be able to: 1) identify the key cultural, political, and historical debates about the concept of Australian national identity 2) demonstrate basic skills in accessing a range of research resources including library reference, journals, books and the internet; 3) demonstrate a capacity to write critical responses to quite complex cultural and social issues and problems; 4) effectively present research findings in oral and written forms; 5) demonstrate a range of skills that enable the critical examination of various sources on Australian cultures and histories. 6) demonstrate in discussion forums an appreciation of and respect for cultural and intellectual diversity.</td>
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#### AUST246 A Sociology of Australia's Indigenous People: Contemporary Issues

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<th>Pre-requisites</th>
<th>Co-requisites</th>
<th>Restrictions</th>
<th>Exclusions</th>
<th>Assessment</th>
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<tbody>
<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>On Campus</td>
<td>3 hrs lecture, 2hr seminar</td>
<td>(24cp at 100 level incl 6cp in Sociology), (24cp at 100 level incl AUST101), (24cp at 100 level incl ENGL113), (24cp at 100 level incl HIST107), (24cp at 100 level incl ARTS112), (24cp at 100 level incl ABST100), (24cp at 100 level incl ABST150)</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>essay 1 (1,200 words) 30%; essay 2 (2,000 words) 40%; annotated bibliography 20%; participation 10%.</td>
<td>This subject examines the present day position of Australia's Indigenous people in their relations within Australian society. Persisting questions of social justice, land rights and self determination and representation supply the central focus of the subject. The subject emphasises both the particular cultural and historical contexts and the common themes in the indigenous experiences of Australian society. The issues that are to be considered include the various government policies, including health and education, their implementation and effects, land rights, civil rights and self determination and self government campaigns and national reconciliation. Subject Objectives: On successful completion of this subject, students will be able to: 1) demonstrate a knowledge of major issues in the relations between Indigenous people and governments; 2) demonstrate an understanding of a selected range of Aboriginal people's social cultural and political agendas in their relations with governments and the wider community; 3) demonstrate the capacity to critically analyse the strategies employed by both governments and Aboriginal interests to address the relations between them; 4) draw on a selection of practical examples to illustrate this capacity.</td>
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#### AUST300 Twentieth Century Australian Literary Culture

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<th>Semester</th>
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<th>Pre-requisites</th>
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<tbody>
<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>Flexible</td>
<td>1x3hr Seminar x 3wkly; +online interaction</td>
<td>(AUST101 and AUST246) or (AUST101 and HIST218)</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>essay 1 (1,500-2,000 words) 35%; essay 2 (1,500-2,000 words) 35%; participation 15%</td>
<td>This subject examines twentieth-century Australian literary culture in the context of critical theories of gender, &quot;race&quot; and colonialism. This subject examines some twentieth century Australian texts in terms of concepts of race, gender and class. The subject will explore the benefits and problems of using history to read literature and using literature to read history. Topics may include: captivity narratives, scandals, pioneer legends, and the representation of Aboriginal people in non-Aboriginal writing. Subject Objectives: On successful completion of this subject, a student will be able to: 1) identify some of the cultural, political, ideological, historical and intellectual background of Australian literary culture in the twentieth century. 2) use scholarly commentaries on issues of race, class and gender to write critical readings of literary texts. 3) test ideas and arguments before student colleagues and staff in both written and oral forms, and consider the implications of any responses for their intellectual position. 4) demonstrate a respect for the ideas of others and offer critical and informed responses to them. 5) write historised analyses of literary texts at an advanced level.</td>
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#### CCS105 Introduction to Communication and Cultural Studies

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<th>Semester</th>
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<tbody>
<tr>
<td>Autumn</td>
<td>Moss Vale</td>
<td>Flexible</td>
<td></td>
<td></td>
<td>none</td>
<td>none</td>
<td>COMS100</td>
<td>reflective journal 30%; Class participation 10%; Group project 20%; Final essay 40%</td>
<td>This subject analyses the present day position of Australia's indigenous people in their relations within Australian society. Persisting questions of social justice, land rights and self determination and representation supply the central focus of the subject. The subject emphasises both the particular cultural and historical contexts and the common themes in the indigenous experiences of Australian society. The issues that are to be considered include the various government policies, including health and education, their implementation and effects, land rights, civil rights and self determination and self government campaigns and national reconciliation. Subject Objectives: On successful completion of this subject, students will be able to: 1) demonstrate a knowledge of major issues in the relations between Indigenous people and governments; 2) demonstrate an understanding of a selected range of Aboriginal people's social cultural and political agendas in their relations with governments and the wider community; 3) demonstrate the capacity to critically analyse the strategies employed by both governments and Aboriginal interests to address the relations between them; 4) draw on a selection of practical examples to illustrate this capacity.</td>
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<td>Wollongong</td>
<td>Flexible</td>
<td></td>
<td></td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>essay 1 (1,200 words) 30%; essay 2 (2,000 words) 40%; annotated bibliography 20%; participation 10%.</td>
<td>This subject introduces students to some of the important issues and academic debates about identities in Australia. It explores some of the principal features that characterise images of Australia, Australians and the Australian continent. It approaches the subject from an historical and cultural perspective and asks what 'being Australian' has meant to different people at different times, both for the social groups and individuals who have shaped dominant notions of national identity and those who have challenged them. What did it mean, for example, to Indigenous people, to women, to immigrants? The subject also critically examines expressions of Australian identity through some of its national rites and rituals such as Australia Day, Anzac Day, tourism, sport and national spectacles such as the Olympics. Subject Objectives: On successful completion of this subject, a student will be able to: 1) identify the key cultural, political, and historical debates about the concept of Australian national identity 2) demonstrate basic skills in accessing a range of research resources including library reference, journals, books and the internet; 3) demonstrate a capacity to write critical responses to quite complex cultural and social issues and problems; 4) effectively present research findings in oral and written forms; 5) demonstrate a range of skills that enable the critical examination of various sources on Australian cultures and histories. 6) demonstrate in discussion forums an appreciation of and respect for cultural and intellectual diversity.</td>
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<td>Flexible</td>
<td></td>
<td></td>
<td>none</td>
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<td>essay 1 (1,200 words) 30%; essay 2 (2,000 words) 40%; annotated bibliography 20%; participation 10%.</td>
<td>This subject introduces students to some of the important issues and academic debates about identities in Australia. It explores some of the principal features that characterise images of Australia, Australians and the Australian continent. It approaches the subject from an historical and cultural perspective and asks what 'being Australian' has meant to different people at different times, both for the social groups and individuals who have shaped dominant notions of national identity and those who have challenged them. What did it mean, for example, to Indigenous people, to women, to immigrants? The subject also critically examines expressions of Australian identity through some of its national rites and rituals such as Australia Day, Anzac Day, tourism, sport and national spectacles such as the Olympics. Subject Objectives: On successful completion of this subject, a student will be able to: 1) identify the key cultural, political, and historical debates about the concept of Australian national identity 2) demonstrate basic skills in accessing a range of research resources including library reference, journals, books and the internet; 3) demonstrate a capacity to write critical responses to quite complex cultural and social issues and problems; 4) effectively present research findings in oral and written forms; 5) demonstrate a range of skills that enable the critical examination of various sources on Australian cultures and histories. 6) demonstrate in discussion forums an appreciation of and respect for cultural and intellectual diversity.</td>
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Assessment: 2 seminar papers 30% each, 1 exam 40%

Subject Description: This subject is an introduction to the concepts and terminology of communication and cultural studies. It provides a range of critical tools with which to analyse, critique and interrogate communications processes, texts and audiences. Students explore the tension between the way that social practice tries to regulate and stabilise meaning and the tendency for meaning to proliferate in instability. The course explores the following themes and concepts: 1. semiotics. 2. texts, codes, discourse, narrative, genre. 3. Myth and ideology. 4. intertextuality and multi-genres texts. 5. Audiences, Texts and subject positions.

Subject Objectives: information unavailable.

CCS207 Signs of Power: Culture and Representation 8cp

Spring Wollongong On Campus

Contact Hours: 1hr L, 2hrs T.

Pre-requisites: CCS105

Co-requisites: none

Restrictions: none

Exclusions: Not to count with CCS107

Assessment: seminar papers & exercises 40%, 1 essay 60%

Subject Description: In this unit we will explore cultural representations of the social world through an examination of signs, texts and social practices within the context of socio-cultural relations and processes. Having examined the premise that culture works like a language we will consider the questions of how representations are constructed, the contexts in which they are formed and the implications they have for issues of power and cultural politics. Particular attention will be paid to representations of gender and race within the texts of popular culture (television, magazines, advertising etc).

Subject Objectives: information unavailable.

CCS213 Audiences and Readers 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: CCS105

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 1 major assignment 50%, 1 minor assignment 35%, 1 seminar paper 15%

Subject Description: This subject extends the work begun in CCS105 by introducing students to more advanced concepts and issues of communications as process and as cultural practice. It is concerned with methods of understanding and analysing audience reception of texts in a variety of media, and in the ways in which theories of audience response have informed the analysis of textual production. It involves case studies that illustrate issues and theoretical approaches.

Subject Objectives: information unavailable.

CCS215 Race, Gender, Colonialism: Studies in Australian Culture 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: CCS105

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: seminar paper 15%, two essays 40% each, participation 5%

Subject Description: This subject examines nineteenth and twentieth century Australian cultural formations in the context of contemporary critical theories of gender, race and colonialism. It introduces students to the study of colonial discourse and the manner in which it engenders institutionalized subjects. In addition, it examines the representation and critique of gender; the appropriateness of nation and other terms as organizing principles; and the critiques produced through Aboriginal and immigrant cultural practices.

Subject Objectives: information unavailable.

CCS217 Film Form and Style 8cp

Spring Wollongong On Campus

Contact Hours: 1hr L, 2hrs Scr 2hrs S.

Pre-requisites: CCS105

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: project/essay 50%, assignment 30%, seminar participation 20%

Subject Description: An introduction to the main concepts used to analyse the film industry and film texts. The first section focusses on film form and style through discussions of cinematography, editing and mise-en-scene, narrative and non-narrative systems. The second section examines genre forms, focussing on the documentary form and national cinemas, focussing on Soviet montage cinema. This course emphasises film before the introduction of sound, early Soviet cinema and other non-Hollywood traditions.

Subject Objectives: information unavailable.

CCS219 Australian Screen 8cp

Spring Wollongong On Campus

Spring Shoalhaven On Campus

Spring Bega Education Access Centre

Spring Batemans Bay On Campus

Contact Hours: 2hrs S

Pre-requisites: CCS105

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Journal 40%, project research 20%, project report 30%, participation 10%

Subject Description: This subject covers the history of the Australian screen, from the early development of the industry, through the decline of the 1950s and 1960s and the government-assisted revival in the 1970s, to the present day. Arguments for and against a national cinema are considered, and the co-operation between Australian television and cinema in the production of a national image is explored.

Subject Objectives: information unavailable.

CCS221 Critical Cultural Practice 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: CCS105

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: major essay 50%, textual analysis 30%, seminar paper 15%, seminar participation 5%

Subject Description: This subject is an introduction to contemporary theories and practices of critical analysis. It is specifically concerned with theories of representation and the application of these theories in socio-cultural contexts. The
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subject examines a broad range of cultural texts as sites upon which critical skills may be developed in an informed theoretical framework.

Subject Objectives: information unavailable.

CCS223 Introduction to Publishing Studies: Print 8cp
Autumn Wollongong On Campus
Contact Hours: 1 hr L, 2 hrs S/W.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: tutorial paper 20%, sessional essay 40%, publication exercise 40%
Subject Description: A study of the processes and products of publishing in all media and forms from their origins of historical development up to the contemporary infotech age, treating these as instances of cultural production, dissemination, and reception as well as addressing the various socio-economic, cultural, political and legal conditions, contexts and issues involved. Practical, experiential approaches will be employed and, to this end, various workshops (eg desktop publishing) will be offered.

Subject Objectives: information unavailable

CCS225 Introduction to Electronic Publishing 8cp
Spring Wollongong On Campus
Contact Hours: 1x1hr lecture + 1x2hr seminar.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay (25%), Seminar Paper (30%), Project (35%), Participation (10%)
Subject Description: This subject surveys electronic publishing from desktop publishing to the world wide web, thus complementing CCS223 Introduction to Publishing Studies: Print. It covers the history of publishing in electronic form, the features and possibilities of the medium including audio and moving images, its formats, distinctive genres and cultural impact. It includes some production work in desktop publishing and web pages.

Subject Objectives: Students successfully completing CCS225 should be able to: 1. analyse, discuss and comment on aspects of the history, development, particular nature and cultural impact of electronic publishing; 2. demonstrate an in-depth understanding of a particular genre, practice or use of the electronic medium; 3. demonstrate a working knowledge of the production of web pages; 4. display advanced skills in cultural and textual analysis, in essay writing and oral presentation.

CCS330 The Practices of Everyday Life 8cp
Spring Wollongong On Campus
Contact Hours: 1hr lecture, 2hr seminar per week.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: seminar presentation 30%; textual exercise 30%; Essay 40%
Subject Description: This subject introduces students to a range of theories which enable the critical re-evaluation of the practices of everyday life in th context of popular culture.

Students will critically re-evaluate everyday practices in relation to tactical consumption, unauthorised pleasures, oppositional uses and unintended effects of power. Topics discussed include: kitsch, camp and the culture of trash; commodification and identity; indigeneity and race in popular culture; the codification of suburban and urban spaces; gender performance; sexual identity and the politics of drag.

Subject Objectives: On completion of the subject, students should be able to: 1. Demonstrate a strong understanding of the theoretical approaches studied in the course; 2. Deploy those theories in the critical analysis of everyday practice and cultural artefacts; 3. Discuss the interrelations of everyday practices and discourses of power.

CCS333 Popular Genres 8cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Seminar paper 20%, Essay 30%, Major essay 40%, Participation 10%
Subject Description: This subject focuses on the critical study of theories of genre together with an examination of the meanings accrued to categories of the popular in discussions of generic texts. It introduces students to poststructuralist and structuralist approaches, psychoanalytic, feminist and semiotic definitions of genre as an analytical category in cultural critique. The subject will focus on transformations in the genres: science fiction/detective/romance/fantasy/horror.

Subject Objectives: information unavailable

CCS334 Technologies of the Body 8cp
Autumn Wollongong On Campus
Contact Hours: 3 hrs S.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Seminar paper 20%, Essay 30%, Major essay 40%, Participation 10%
Subject Description: This subject is an introduction to the discursive and material analysis of definitions and descriptions brought to bear on the body across a number of institutional and disciplinary sites. As such, it examines major theoretical and critical concerns about the socio-cultural practices associated with the representation of bodies. These concerns emanate from and include Feminist, Postcolonial, Postmodern, Psychoanalytic, Poststructuralist and Queer Theoretical debates about identity and representation.

Subject Objectives: information unavailable

CCS335 Electronic Cultures 8cp
Autumn Wollongong On Campus
Contact Hours: 1L, 2S.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Short report 20%, Seminar paper 30%, Essay/journal 40%, Participation 10%
Subject Description: This subject covers text, practices and impact of electronic culture in cyberspace or elsewhere.
Students will consider how concepts of the body, gender, identity and community are formulated in the electronic environment; they will scrutinise notions of authoring and authority, reading and interactivity, and will explore issues of access and equity, and policies dealing with regulation, copyright and privacy. This subject complements Publishing Studies offered in CCS223 and CCS225.

Subject Objectives: Students successfully completing CCS335 should be able to: 1. demonstrate a familiarity with the forms and practices of electronic culture including the contents and mode of presentation of typical electronic texts; 2. demonstrate an awareness of the main debates inspired by the new media and an understanding of its impact on culture in Australia and elsewhere; 3. analyse the implications of the texts and practices found in the electronic environment using an appropriate theoretical framework; 4. display advanced skills in cultural and textual analysis and in essay writing.

CCS337 Hollywood and American Culture 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: minor essay 30%, major essay 50%, participation 20%

Subject Description: A study of American cinema and its interaction with American popular and political culture, covering the development of the studio system; the transition from silent to sound; Hollywood's response to censorship demands; the representation of social, sexual and political issues in the 1950s in particular; and the relationship between American cinema and television to the end of the 1960s.

Subject Objectives: information unavailable.

CCS339 Hollywood and the Globalisation of Culture 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: minor essay 30%, major essay 50%, participation 20%

Subject Description: This subject examines the history of Hollywood and its interaction with American popular culture since 1968. In addition, it explores the influence of Hollywood on global screen production and distribution, considering other national cinema histories in the context of resistance to, or collaboration with, the dominant American national cinema. The rise of American independent production is addressed, as well as principal theoretical shifts in film and media theory since the 1970s.

Subject Objectives: information unavailable.

CCS341 Screen Studies: Advanced Seminar 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: major essay/video project 50%, minor assignment 30%, seminar presentation 20%

Subject Description: This subject allows students to undertake advanced detailed study of a specific screen genre or industry. The special topic studied is subject to staff availability and expertise. Special topics to be offered may include advanced television study, new Black Cinema, Queer Screen, the Hollywood Musical, British Cinema, Early Cinemas, German Cinema.

Subject Objectives: information unavailable.

CCS343 Directed Study 8cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 3 hrs S.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: Available only in special circumstances. Students can only enrol after consulting with and gaining the approval of the Head of Program.
Exclusions: none
Assessment: Assignments to be negotiated with the Subject Co-ordinator in the first week of session.

Subject Description: Directed reading, research and other investigative activities lead to the production of a major essay or report in a field of study selected by the student and approved by the Head of Program. Prospective students must have a Distinction average in CCS, and entry depends on the availability of staff.

Subject Objectives: information unavailable.

CCS348 Television, Globalisation and Cultural Identity 8cp
Autumn Wollongong On Campus
Contact Hours: 1hr L, 2hrs S.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: Not to count with CCS341
Assessment: information unavailable

Subject Description: In this subject we explore the rise of global television and explore its contribution to the construction of cultural identities. The course will introduce students to a set of key concepts and empirical studies with which to explore the impact of global television. Particular stress is laid on the discursive and symbolic character of identity and the emergence of hybridity in the context of globalisation. The subject will allow students to examine the issues of: Modernity, globalization and 'new' technology; Emerging patterns in the communications Industries; The global appeal of soap opera and news; Audiences and cultural identity: race and nation; Cultural Identity, globalization and cultural imperialism.

Subject Objectives: information unavailable

CCS351 Semiotics and Communication 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: seminar paper 30%, major essay 50%, in-class exam 20%

Subject Description: This subject will focus on European and American theoretical traditions and the relationship of each to social semiotics and communication studies. Themes of language and form, graphic and information models and
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copyright, discourse, writing and grammatology, semiosis and social codes, structuralism and modernism, and text and media will be approached in terms of these theories. Particular attention will be given to current neo-pragmatic, realist and post-structuralist attempts to update semiotics.

Subject Objectives: information unavailable.

CCS352 Flashpoints, Contestations in Contemporary Australian Culture 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Seminar presentation 25%, seminar write-up 25%; major essay 50%
Subject Description: Contemporary Australian culture has been subject to perturbation as a consequence of a series of culture wars in which culture (and the culture) has become the site of contestation between discourses of the media, age, race and ethnicity, and gender. Focusing on a selection of these cultural flashpoints, this subject will examine moments of crisis in Australian culture via these discourses and the particular cultural practices and products involved.

Subject Objectives: information unavailable.

CCS357 Television Cultures 8cp
Spring Wollongong On Campus
Contact Hours: 1L, 15cr, 2S.
Pre-requisites: CCS105
Co-requisites: none
Restrictions: none
Exclusions: Not to count with CCS257
Assessment: project/essay 50%, assignment 30%, seminar participation 20%
Subject Description: This subject examines television as social and cultural practice, looking at formal and aesthetic features of television genres, issues of representation and identity, and historical and technological developments of television in Australia within a global context.

Subject Objectives: information unavailable

CCS400 Honours 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: (Major in CCS at credit average - not to include Pass Terminating grades)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: dissertation or project 50%, plus seminar papers, essays, projects, research reports etc as required in the particular units of a program of complementary studies arranged for each candidate 50%
Subject Description: 1. A dissertation (or project) of 15,000 words or equivalent on a topic developed in consultation with the student's supervisor and approved by the Head (24 cp); 2. A program of complementary studies comprised of coursework subjects and project work arranged in consultation with each student and approved by the Head (24 cp).

Subject Objectives: information unavailable

CCS405 Joint Honours in Communication & Cult Studies and another Discipline 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information not available
Pre-requisites: (Major in CCS at credit average - not to include Pass Terminating grades)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This will consist of a course of studies approved by the Head of Program in collaboration with the Head of the other academic unit concerned and will normally be composed of elements offered at 400-level by each unit.

Subject Objectives: information unavailable

CCS407 Special Study 8cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: (Major in CCS at credit average - not to include Pass Terminating grades)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is designed to enable students enrolled in Honours in other Programs to take one of the subjects in the Communication and Cultural Studies Honours Program. Enrolment is subject to the approval of the Head of Program.

Subject Objectives: information unavailable

ELS151 English For Academic Purposes: A Second Language Perspective 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 1hr Lect.& 2hrs Tut.
Pre-requisites: Minimum IELTS score of 6 (reading/writing) & 5 (speaking/listening) for International students
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Continuous assessment 100%
Subject Description: This subject provides an introduction to English for Academic Purposes primarily for International students who have undertaken their school studies in a language other than English. It will introduce and examine a general range of texts focussing on some of the key distinguishing features of academic writing.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Achieve a basic proficiency in EAP for NESB students; 2. Identify common academic text types; 3. Reproduce common academic text types.
ELS152  English Language Studies 1  6cp
Spring  Wollongong  On Campus
Contact Hours: 2 hrs lecture and 2 hrs tutorials.
Pre-requisites: ELS151
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: class work 25%, oral presentation 25%, essay 30%, examination 20%.
Subject Description: This subject follows on from ELS 151. It will expand on the content of ELS 151 by developing students' knowledge of English, and the contexts in which it is used. It will also include one lecture per wk on 'cultural literacy'.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Achieve an intermediate proficiency in English for Academic Purposes for ESB students; 2. Identify a range of disciplinary academic text types; 3. Analyse a range of academic genres; 4. Reproduce a range of academic genres.

ELS161  English For Academic Purposes : A First Language Perspective  6cp
Autumn  Moss Vale  Flexible
Autumn  Wollongong  On Campus
Autumn  Shoalhaven  Flexible
Autumn  Bega Education Access Centre
Autumn  Batemans Bay  Flexible
Contact Hours: Wollongong - 1 hr lecture and 2 hrs tutorial; Other - 2 hrs tutorial + on-line.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class work 20%, written assignment 60%, final test 20%
Subject Description: This subject provides an overview of the kind of English used in the academic context. It is designed for students who have undertaken their school studies in English and who are wanting an induction into writing and speaking in the university environment. It will introduce, examine and practice a range of both written and spoken academic genres.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Achieve a basic proficiency in English for Academic Purposes for ESB students; 2. Identify a range of written and oral academic genres; 3. Analyse a range of written and oral academic genres; 4. Reproduce a range of written and oral academic genres.

ELS261  English Language Studies 2  8cp
Autumn  Wollongong  On Campus
Contact Hours: 2 hrs lecture, 2 hrs tutorial per week.
Pre-requisites: (LANG110 & ELS151 & ELS152) OR (LANG110 & ELS161)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: assignments 50%, participation 10%, portfolio 10%, essay 30%
Subject Description: This subject is the first 200 level subject in the English Language Studies major. Students will be working with discipline specific language looking at the linguistic features that separate and define them. In particular, students will be investigating cohesion and thematic development across a selected range of disciplines.
Subject Objectives: On completion of this subject, a student will be able to: 1. achieve an advanced proficiency in EAP for both ESB and NESB students; 2. identify a range of discipline specific academic text types; 3. analyse a range of discipline specific academic text types.

ELS361  English Language Studies 3  8cp
Spring  Wollongong  On Campus
Contact Hours: 1 hr lecture, 2 hrs tutorial.
Pre-requisites: ELS261
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Oral and written assignment 50%, portfolio 10%, participation 10%, essay 30%
Subject Description: This subject follows ELS261. Students will be investigating abstraction, technicality, attitude and opinion across a selected range of disciplines.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. commitment to independent learning and critical analysis; 2. ability to logically analyse issues; 3. an understanding of information literacy; 4. self-confidence combined with oral and written academic English communicatin skills.

ELS362  Language and communication in a global context  8cp
Autumn  Wollongong  On Campus
Contact Hours: 3 hrs lecture/seminar per week.
Pre-requisites: 24 credit points of BA subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Test (30%), class-based tasks and presentations (40%), assignment (30%)
Subject Description: This subject examines the impact of globalisation on communication with a specific focus on the role and functions of English. It traces the spread of English across the world as a native, second and foreign language and discusses its impact on the status of other languages. It pays particular attention to the use of English in intercultural encounters. Another focus is on analysing and producing texts characteristic of global English in business, the media and education.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. demonstrate a knowledge and understanding of the English language in a global context; 2. recognise domain specific global English contexts; 3. analyse factors and forces in the spread of English; 4. recognise different varieties of English and the associated socio-cultural factors.

ENGL113  Contemporary Writing in Australia  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: ENGL190
Assessment: 2 Essays 60% (25% & 35%); 1 class presentation 15% (10 to 15 minute presentation); 1 Practical Exercise 15% (1 in-class quiz); Class participation 10%.
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Subject Description: This subject will examine texts which challenge the idea that there is one representative "literature" in Australia. Through an examination of the various discourses, myths and historical narratives which construct cultural identity, it will focus on the question of genre and gender construction, and on the function of autobiography and fiction in constructing a national literature. The subject will feature guest writers and performers.

Subject Objectives: At the conclusion of the subject, successful students will be able to: 1. define the basic terminology and concepts (eg discourse, ideology, displacement, alienation, social construction, indigenerity, narrative, myth, positionality, culture, national identity); 2. describe the various discourses, myths, historical narratives, which construct cultural identity, and identify their inscription in a broad range of texts; 3. explain the function of history, autobiography and fiction in constructing a national literature; 4. contrast "Migrant Writing", "Indigenous Writing", "Anglo Writing"; 5. demonstrate an appreciation of indigenous and migrant cultures; 6. write a critical analysis of "National Identity" and "National Literature" and interrogate and challenge the idea that "one representative literature speaks for all Australians".

ENGL117  Forms of the Imagination  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: Since the decline of realism, fantasy in fiction is no longer dismissed out of hand as mere escapism. Now the creation of other worlds and other possibilities appears as a necessary exercise of the human capacity for imagination. In this subject we study many kinds of imaginative fiction (and their corresponding social backgrounds); eg myth; Arthurian Romance; the Gothic; the supernatural; surrealism; science fiction; swords and sorcery; magic realism.

Subject Objectives: information unavailable.

ENGL120  An Introduction to Literature and Screen Studies  6cp
Autumn  Wollongong  On Campus
Contact Hours: 2 x 1hr lectures and 1 x 1hr tutorial.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 essays 35% & 45%; take-home exercise 10%; library skills test (ungraded but compulsory); class participation 10%.

Subject Description: This subject is an introduction to the reading and criticism of texts in various forms and media. Students will be introduced to the principles, processes and methodologies involved in the critical 'reading' of texts drawn from prose fiction, poetry, advertising, journalism, theatre, film, television, etc. The texts selected for study will be treated on their own individual terms as expressive communicative examples of the various forms and media.

Subject Objectives: At the conclusion of this subject the successful student will: 1. grasp the expanded notion of 'text' and understand that 'how' a text means is an integral part of 'what' it means; 2. be familiar with several kinds of literary and popular texts: drama, film, novel, verse etc; 3. understand the basic conventions of each genre and how each uses particular devices to create meaning; 4. be able to demonstrate how texts arise from social contexts and construct particular kinds of "readers" appropriate to those contexts; 5. be familiar with concepts of discourse, reader position and intertextuality; 6. have developed skills in the critical close reading of texts; 7. have developed basic information retrieval skills relevant to this and other subjects.

ENGL121  Text and Gender  6cp
Contact Hours: 2 x 1 hr L; 1 x 1hr T.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (ENGL108) or (ENGL110)
Assessment: 2 Essays 60% (25% & 35%); 1 Class presentation 15% (10-15 minute presentation); 1 Practical exercise 15% (1 take-home-class quiz); Class participation 10%

Subject Description: This subject is primarily concerned with the definition and construction of the notions 'female' and 'male' in literary and cinematic texts. These texts will be drawn from historical periods from the Renaissance to the present and include poems, pamphlets, stories, novels and the screen texts of cinema and cyberspace.

Subject Objectives: At the conclusion of the subject, successful students will be able to: 1. demonstrate an understanding of the content/meanings of the texts studied. 2. describe some of the rhetorical, generic, and linguistic strategies the texts use to produce meaning. 3. demonstrate an understanding of the relationship between the texts and their cultural context with particular attention paid to the ways in which culture produces 'gender'. 4. show an initial understanding of the ways concepts such as 'human', 'woman', 'man', 'female', 'male', 'feminine', and 'masculine' are produced by and through culture.

ENGL199  Understanding Literary Techniques  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 seminar papers 30% each; 1 practical criticism exercise 30%; participation 10%

Subject Description: This subject is particularly suited to the needs of mature-age students and students who do not feel confident in the techniques of close textual analysis. Each seminar will include a short lecture on a particular literary device (eg metaphor, symbol, the narrative voice), a workshop wherein several examples will be analysed, and a paper presented by a student.

Subject Objectives: information unavailable.

ENGL228  English Renaissance Literature and Culture  6cp
Autumn  Wollongong  On Campus
Contact Hours: 1hr L; 2hrs Seminar.
Pre-requisites: At least 6 cp at 100-level English
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1 essay; 1 tutorial paper; 2 short critical exercises
Subject Description: This subject introduces students to the literature and culture of the English Renaissance. It focuses on a diversity of texts including plays, poetry, autobiographical writing, historical narrative, and contemporary observations; texts written by a number of major and minor writers of the period (e.g., Shakespeare, Donne, Milton, Thomas Kyd, 'Ephelia', Mary Rich, Thomas Hariot, Walter Ralegh, Queen Elizabeth and others). The subject concentrates on the ways these texts inform and are informed by three major cultural contexts: the historical, the social, and the literary/generic.

Subject Objectives: Students who successfully complete this subject will be able to: 1. demonstrate an understanding of the content/meanings of the literary texts studied; 2. describe the rhetorical, generic, and linguistic strategies the texts use to produce meaning; 3. show knowledge of the relationship between the texts and their social, historical, and literary contexts; and, 4. provide a critical analysis of the texts by identifying and describing the inter-relationship between the above three dimensions of study.

ENGL229 Romantics & Victorians: English Literature From 1790-1900

8cp

Autumn Wollongong On Campus

Contact Hours: 1 hr L; 2 hr Seminar.

Pre-requisites: At least 6 cp at 100-level English

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 1 take-home test 30%; 2 essays 35% ea

Subject Description: This is a study of the revolution of imagination. The literature in this subject represents an influential part of the cultural production of a century of European history that includes the French, Industrial and Scientific Revolutions - a period of exciting, daunting upheaval in political, social, scientific and aesthetic theory and which includes the writings of the Romantic Poets, the Bronte sisters, Tennyson, Barrett-Browning, Hardy, George Eliot and Dickens.

Subject Objectives: information unavailable

ENGL230 Page to Stage: Modes of Performance

8cp

Autumn Wollongong On Campus

Contact Hours: 3 hr Seminar.

Pre-requisites: At least 6 cp at 100-level English

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 1 essay; 1 seminar presentation; journal

Subject Description: From ancient Greece through to contemporary Hollywood, dramatic performance has functioned to entertain, to educate, and to call for change. Today's TV and cinema culture has a rich dramatic heritage of which we too often remain unaware. This subject provides an introduction to the study of performance through text, theory, and practice. Elements of performance will be explored through the study of specific scripts, and through practical work drawn from various performance modes. The connections between performances and their cultural contexts will be explored, with special emphasis on gender, sexuality, politics and nation. We will also consider the crucial influence of genre - whether comedy, tragedy, satire, or morality play - on performance and dramatic convention. The texts in the course will range from Greek tragedy through the medieval and Renaissance stages to the avant garde and experimental challenges of the twentieth century.

Subject Objectives: Students completing ENGL230 should be able to: 1. demonstrate a familiarity with a cross-historical range of dramatic texts, and with the dramatic and technical considerations relevant to the performance of these texts; 2. critically analyse the texts chosen for study; 3. discuss representations of gender, sexuality, race and nationhood, and the role of dramatic texts in the exploration of moral, ethical, political and philosophical questions.

ENGL231 Australian Drama and Theatre

8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: At least 6 cp at 100-level English

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable.

Subject Description: This subject will examine the development of Australian drama from 1788, and the relationship between Australian drama and the Australian theatre enterprise.

Subject Objectives: information unavailable.

ENGL233 History of Australian Writing

8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: At least 6 cp at 100-level English

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 2 practical exercises (15% each); 1 tutorial paper (30%); 1 major essay (30%) - to be confirmed at first lecture

Subject Description: This subject begins with a discussion of traditional literature, and especially the fairy tale; its uses, meaning and relevance in today's world. This will be followed by a study of nineteenth and twentieth century fantasy literature for children by British, American and Australian authors.

Subject Objectives: information unavailable.

ENGL234 Children's Literature in Australia

8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: At least 6 cp at 100-level English

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 2 practical exercises (15% each); 1 tutorial paper (30%); 1 major essay (30%) - to be confirmed at first lecture

Subject Description: This subject examines the development of Australian Children's Literature in the nineteenth and twentieth centuries with greater emphasis on writers of the present day.

Subject Objectives: information unavailable.

ENGL243 Fantasy and Children's Literature

8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: At least 6 cp at 100-level English

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable.

Subject Description: This subject begins with a discussion of traditional literature, and especially the fairy tale; its uses, meaning and relevance in today's world. This will be followed by a study of nineteenth and twentieth century fantasy literature for children by British, American and Australian authors.

Subject Objectives: information unavailable.

ENGL244 Children's Literature in Australia

8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: At least 6 cp at 100-level English

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable.

Subject Description: This subject examines the development of Australian Children's Literature in the nineteenth and twentieth centuries with greater emphasis on writers of the present day.

Subject Objectives: information unavailable.

ENGL248 Chaucer

8cp

Spring Wollongong On Campus

Contact Hours: 1 hr L; 2 hr seminar.

Pre-requisites: (At least 6 cp at 100-level English)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 2 essays; 1 translation test

Subject Description: This subject will examine the development of English literature in the fourteenth and fifteenth centuries. Film, drama, and all aspects of the medieval period will be discussed.
Subject Description: This subject involves the study of some of The Canterbury Tales of Geoffrey Chaucer and also provides an introduction to the literary and cultural context of his time. It considers the construction and representation of gender, sexuality, love, marriage, youth and age. The subject is designed to make Chaucer accessible to modern readers, who will find the texts racy, bawdy, witty, ironic, in their coverage of a wide range of human experience.

Subject Objectives: Students completing this subject should be able to: 1. demonstrate a familiarity with Chaucer's work, its reception and reworking in later periods. 2. critically analyse the texts chosen for study. 3. discuss the construction and representation of cultural concepts like gender, sexuality, love, marriage, youth and age in the context of fourteenth-century England. 4. demonstrate an ability to read and understand Chaucer's English.

ENGL253 Major Twentieth Century Writers 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: At least 6 cp at 100-level English
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: A study of major modern writers in English from England, America, Ireland and New Zealand.
Subject Objectives: information unavailable.

ENGL255 Eighteenth Century Literature and Culture 8cp
Spring Wollongong On Campus
Contact Hours: 1hr L; 2hr Seminar.
Pre-requisites: At least 6 cp at 100-level English
Co-requisites: none
Restrictions: none
Exclusions: ENGL256
Assessment: essay; tutorial paper; short critical exercises
Subject Description: Eighteenth-century English literature ranges from the biting social satire of Pope and Swift to the increasing popularity at the end of the century of the 'new' genres of Feeling - the Gothic and the novel of Sensibility. The period is known for its comic writing but this subject also focuses on the work of women writers - those 'other Augustans' whose skills of social observation considerably broaden our understanding of the period.
Subject Objectives: Students who successfully complete this subject will be able to: 1. demonstrate an understanding of the content/meanings of the literary texts studied. 2. describe the rhetorical, generic, and linguistic strategies the texts use to produce meaning. 3. show knowledge of the relationship between the texts and their social, historical, and literary contexts; and 4. provide a critical analysis of the texts by identifying and describing the inter-relationship between the above three dimensions of study.

ENGL259 An Introduction to Canadian Writing 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: At least 6 cp at 100-level English
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1 essay 50%; 1 presentation & report 40%; class participation 10%
Subject Description: This subject will focus primarily on contemporary Canadian fiction, but it will also offer a wider context for an appreciation of this country’s literature and culture through an examination of a range of texts: exploration journals, poetry and fiction by First Nations and Canadian writers (including, Michael Ondaatje and Margaret Atwood). The texts for this course illustrate a wide range of issues, styles and preoccupations in Canadian literature.

Subject Objectives: Students completing ENGL259 should be able to: 1. demonstrate a familiarity with a diversity of contemporary Canadian writing and related moments of cultural importance; 2. critically analyse the texts chosen for study; 3. discuss the construction and representation of cultural constructs such as gender, sexuality and "race" in the context of nineteenth and twentieth-century Canadian literature.

ENGL260 Nineteenth Century Australian Literary Culture 8cp
Spring Wollongong Flexible
Spring Batemans Bay Flexible
Spring Bega Education Flexible
Spring Access Centre Flexible
Spring Shoalhaven Flexible
Contact Hours: 1x3hr Seminar every third week;
Pre-requisites: (At least 6 cp of English at 100-level) or (ARTS113)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1000 word essay 30%; 2000 word essay 40%; 7 Best bulletin board postings 15%; Participation 15%
Subject Description: This subject examines nineteenth-century Australian literary culture in the context of contemporary critical theories of gender, "race", class and colonialism. Amongst other things, it examines the representation and critique of gender roles, the process by which national literary canons and national identity are constructed, and the manner in which colonial ideology played a critical role in the representation of Aboriginal people and Aboriginality in the literature of the period.
Subject Objectives: On completion of this subject, you should be able to: 1. articulate your understanding of the processes and structures by which canons of national literatures produce their notion of national identity. 2. Interrogate the discursive means by which gender roles, class positions and the figure of the indigene are simultaneously constructed and critiqued in the literature of nineteenth-century Australia. 3. Demonstrate a range of critical skills which enable the examination of the presuppositions which inform a range of cultural practices and artefacts. 4. Have more advanced skills in accessing a range of research resources, including electronic texts. 5. Be able to work effectively in groups and to negotiate roles and task responsibilities. 6. To demonstrate a capacity to write in a variety of styles and genres.

ENGL264 Modernism 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: At least 6 cp at 100-level English
Co-requisites: none
Restrictions: none
Exclusions: (ENGL253)
Assessment: 1 take-home test 30%; 2 essays 35% ea - to be confirmed at first lecture
Subject Description: This subject focuses on the theory and cultural production of modernism from the 1890s to the 1940s and the exciting textual dynamic that brings the disciplines of verbal and visual arts, science and technology into tension. Literary texts by Kafka, Synge, Camus, Lawrence, Eliot, Woolf, Yeats, Stein, Faulkner and Joyce will be read in conjunction with texts from science, psychology, art and music.

Subject Objectives: Information unavailable.

ENGL265 English and the Empire 8cp
Spring Wollongong On Campus
Contact Hours: 1 hr lecture; 2 hr seminar.
Pre-requisites: None
Restrictions: None
Exclusions: None
Assessment: 1 take-home test 15%; 1 presentation 35%; 1 essay 45%; class participation 5%

Subject Description: This subject considers supposedly 'universal' and 'neutral' English literary classics to show how the discipline of English literature arose out of imperialist expansion and created a literary set of representations that served to justify global power differentials. It inspects overtly colonial fiction to see how its discourse operates and also surveys some of the counter-discursive texts exposing, parodying and subverting colonialist representations.

Subject Objectives: At the successful completion of this subject, students will: 1. have an understanding of major features of imperial discourse 2. be familiar with a range of fiction and poetry arising from British Empire history 3. be able to articulate how these texts reflect and/or contest such a 'legacy' 4. have an understanding of ways in which 'English' is implicated in (neo-) imperialist national and global processes 5. be equipped to begin analysis of contemporary 'post-colonial' conditions.

ENGL299 The Vikings: Old Norse Culture, Language and Literature 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: At least 6 cp at 100-level English
Co-requisites: None
Restrictions: None
Exclusions: None
Assessment: Information unavailable.

Subject Description: This subject introduces students to the cultural and social achievements of the societies which produced the vikings; to the impressive literature they produced including the poetry, the family sagas, and the work of the historian Snorri Sturluson (in translation). It also gives students an insight into their language (Old Norse, or Old Icelandic) which is of great historical importance, and closely related to the earliest form of English.

Subject Objectives: Information unavailable.

ENGL312 Shakespeare, Jonson and Their Contemporaries 8cp
Autumn Wollongong On Campus
Contact Hours: 1 hr L; 2 hr Seminar.
Pre-requisites: At least 6 cp of 100 level ENGL and 6 cp of 200 level ENGL and any other 6 credit points
Co-requisites: None
Restrictions: None
Exclusions: None
Assessment: 1 seminar paper; take-home exercises; essay/journal

Subject Description: A study of selected plays of the Elizabethan-Jacobean period with special reference to the relationships between the plays and contemporary English society.

Subject Objectives: Students completing this subject should be able to: 1. analyse and understand the connections between certain plays by Shakespeare, Jonson, Marlowe and Webster, and Elizabethan-Jacobean society in particular. 2. analyse and understand more generally the connections between literary texts and society (then and now). 3. research, critically analyse and write critically on complex questions of textual and cultural formation.

ENGL330 Theatre in English Since 1968 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (At least 6 cp of 100 level ENGL and 6 cp of 200 level ENGL and any other 6 credit points)
Co-requisites: None
Restrictions: None
Exclusions: None
Assessment: Information unavailable.

Subject Description: This subject will examine recently performed plays in Britain, Ireland, Canada, and America, focussing on innovative approaches to performance and subject matter. We will look at the cultural politics of theatre in the contemporary Western state, the possibilities for political theatre, the revival of popular theatre by the New Left and feminist movements, and the interplay between theatre, other media, and new technologies such as cyberspace.

Subject Objectives: Information unavailable.

ENGL331 Modern Drama 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (At least 6 cp of 100 level ENGL and 6 cp of 200 level ENGL and any other 6 cp. BCA Theatre strand students with 12 cp in Theatre subjects may enrol in this subject without the English pre-req, but will still need a waiver form signed by the Head of Program
Co-requisites: None
Restrictions: None
Exclusions: THEA301
Assessment: Information unavailable.

Subject Description: A study of the major movements in drama of the late nineteenth century and their development in the twentieth century, in their theatrical contexts.

Subject Objectives: Information unavailable.

ENGL334 Critical Theory: Development and Debates 8cp
Autumn Wollongong On Campus
Contact Hours: 1 hr L; 2 hr seminar.
Pre-requisites: (At least 6 cp of 100 level ENGL and 6 cp of 200 level ENGL and any other 6 credit points)
Co-requisites: None
Restrictions: None
Exclusions: None
Assessment: 2 essays 30% and 40%; 1 seminar presentation 20%; class participation 10%

Subject Description: This subject is an introduction to several critical movements that have currency in contemporary literary and cultural studies: structuralism, poststructuralism, psychoanalysis, materialist and historicist approaches, feminism
and theories of gender and sexuality, and theories of post-coloniality and ethnicity. The subject explores the tensions and connections between these movements, attending to the ways in which each movement approaches questions of subjectivity and textual meaning. Students are also given the opportunity in one essay to deploy theoretical concepts through the reading of a literary text.

Subject Objectives: Students completing the course should be able to: 1. demonstrate a familiarity with the aims and methodologies of several important contemporary critical movements; 2. discuss the relations and interactions between these movements; 3. critically analyse literary and cultural theories, not simply "apply" them; 4. deploy theoretical concepts in the analysis of cultural artefacts, e.g. novels and films. More generally, students completing the course will have further developed critical thinking and essay writing skills.

ENGL337 Sex, Power, and Chivalry - Medieval to Modern Literature 8cp

Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1 essay; tutorial presentation; journal; class participation

Subject Description: This subject begins by providing an introduction to some of the major chivalric texts of the later Middle Ages, including Malory's tales of King Arthur, the love lyrics of the troubadours and the female trobairitz, and the lais of Marie de France. It then goes on to examine Cervantes' and others' famous early satires on knightly masculinity, Victorian writers' nostalgic revisitation of Camelot, modern popular romance fiction, the postmodern queer chivalry of Kathy Acker, and the hardbitten knights of Hollywood Westerns. It takes a literary-historical approach, exploring the fascinating and highly complex relationship between gender and social rank in chivalric texts, and traces these texts' changing preoccupation with the issues of power, heroism, sexuality, secrecy, fidelity and betrayal. No previous knowledge of medieval literature is assumed.

Subject Objectives: On successful completion of this subject, students should be able to: 1. Develop a familiarity with a range of chivalric texts 2. Identify, read, and discuss Middle English and other medieval texts competently 3. Critically analyse the texts chosen for study, focussing on their representation of gender 4. Display a critical understanding of the relationship between text and historical context 5. Explain the role of literature in perpetuating or changing social and cultural values

ENGL340 Directed Study in English 8cp

Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)
Co-requisites: (12cp of 300 level ENGL)

Restrictions: Students must have a distinction average in all English subjects and must have the approval of the Head of Program before enrolling.
Exclusions: none
Assessment: information unavailable

Subject Description: Directed reading, research and other investigative activities lead to the production of a major essay/report in a field of study selected by the student. Approval must be sought from head of English Studies program prior to enrolment. Entry to subject depends on availability of staff to supervise student in a particular course of study. Prospective students must have a Distinction average in English.

Subject Objectives: information unavailable

ENGL345 Twentieth Century Women Writers 8cp

Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 take-home tests; 1 presentation and paper; 1 essay

Subject Description: This subject deals with the work of six modern women writers: Virginia Woolf, Katherine Mansfield, Sylvia Plath, Dorothy Hewett, Alice Walker and Jamaica Kincaid. Of particular concern are the cultural processes which so often lead to the mythologising of a woman writer's life, and the way this life/myth interacts with interpretations of that writer's work.

Subject Objectives: Students who successfully complete this subject will be able to: 1. demonstrate an understanding of the content/meanings of the literary texts studied; 2. describe the rhetorical, generic, and linguistic strategies the texts use to produce meaning; 3. show knowledge of the relationship between the texts and their social and literary contexts with particular attention paid to the autobiographical genre and the complex entanglement of the life, the text, the gender and the persona(s) of authors studied; and 4. provide a critical analysis of the texts by identifying and describing, where appropriate, the inter-relationship between the above three dimensions of study.

ENGL346 Comparative Australian/Canadian Writing 8cp

Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1 final essay 40%, 1 written presentation 30%; 1 take-home quiz 20%; participation 10%

Subject Description: A comparative study of a number of novels by Australian and Canadian writers. Students will be offered general theory on the nature of the comparative process and this theory will then be applied to the readings in this subject. Students will also be required to relate texts when appropriate to such developments in contemporary fiction as post-structuralism, post-colonialism and magic realism, as well as considering issues of gender, "race and genre".

Subject Objectives: information unavailable.
ENGL350  Fantasy and Popular Fiction  8cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)  
Co-requisites: none  
Restrictions: none  
Exclusions: CCS333  
Assessment: 1 major paper 40%; 1 take-home exam 20%; 1 presentation & paper 30%; participation 10%  
Subject Description: This subject will explore the development of various non-realistic genres of popular fiction such as other-world fantasy, science fiction, gothic, horror, fairy tale and talking animal story. Students will study a range of texts, from the X-Files to Alien and Dracula and situate them in the context of contemporary critical and cultural theory.  
Subject Objectives: Students completing this course should be able to: 1. demonstrate a general knowledge of a diversity of fantasy writing and criticism; 2. critically analyse the texts chosen for study; discuss the construction and representation of cultural concepts such as gender, “race” and class in the context of speculative modes of production; 4. demonstrate a familiarity with genre analysis and its application to a range of texts.  

ENGL355  Fourteenth Century Literature  8cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable.  
Subject Description: Students will study Chaucer’s “The Wife of Bath’s Tale”, the religious dream-poem, “Pearl”, the Arthurian story, “Sir Gawain and the Green Knight” and look at current approaches including feminist and gender-based readings. The selected editions of texts are easily readable with glosses and paraphrases. A reader with study hints and critical readings will be available.  
Subject Objectives: information unavailable.  

ENGL359  Contemporary Australian Drama  8cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites:  
- (At least 18 cp incl 6cp of 100-level ENGL and ENGL230)  
- (At least 18 cp incl 6cp of 100-level ENGL and ENGL231)  
- (At least 18 cp incl 6cp of 100-level ENGL and ENGL330)  
- (At least 18 cp incl 6cp of 100-level ENGL and ENGL331)  
- (any THEA subject)  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable.  
Subject Description: An examination of the theatrical, literary and social development in Australian Drama from 1970. Texts will include (when available) first and second drafts, manuscripts in pre-production preparation, rehearsal texts and published plays. New texts may be drawn from scripts workshopped at the annual National Playwrights’ Conference or from dramaturgical departments allied with the State Theatre Companies.  
Subject Objectives: information unavailable.  

ENGL363  Turning Points: Selected Post-Colonial Fiction  8cp  
Contact Hours: 3hr Seminar.  
Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: 1 seminar paper 35%; 1 essay 45%; 1 project 15%; class participation 10%  
Subject Description: A survey of major fiction texts of post-colonial writing in English, especially 'first' novels from emerging nations and fiction that has, by virtue of critical attention or post-colonial concern, become seminal in creating the literary corpus of post-colonial studies. It examines the interaction between colonial experience and literary form and technique, and critical responses surveyed for various constructions of a post-colonial 'tradition'.  
Subject Objectives: Students will gain familiarity with basic fiction texts in the field and some knowledge of the backgrounds in which they appear. Students will become aware of some of the dynamics in literary treatments of history and historical constructions of literature. Students will gain an awareness of some of the key critical issues pertaining to the production and reception of emergent writing.  

ENGL365  Nineteenth-Century Women Writers  8cp  
Contact Hours: 1 hr lecture and 1.5 hr tutorial per week.  
Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: 1 essay; 1 tutorial paper; 2 short critical exercises  
Subject Description: This subject looks at the work of women writers in England, Australia and the United States in the Nineteenth Century, through different types of writing - fiction, poetry, diaries and journalism. The subject examines the establishment of the female writing self within the cultural structures of the nineteenth century and the engagement of that self with the social and literary conventions of that time.  
Subject Objectives: Students who successfully complete this subject will be able to: 1. demonstrate an understanding of the content/meanings of the literary texts studied. 2. describe the rhetorical, generic, and linguistic strategies the texts use to produce meaning. 3. show knowledge of the relationship between the texts and their social and literary contexts with particular attention paid to the gendered nature of these contexts for women of the period. 4. provide a focal point for discussion of the social and legal position of women throughout the nineteenth century; and 5. provide a critical analysis of the texts by identifying and describing, where appropriate, the inter-relationship between the above for dimensions of study.  

ENGL366  Africa and the New World  8cp  
Contact Hours: 3hr seminar.  
Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)  
Co-requisites: none  
Restrictions: none
ENGL371 Twentieth Century Australian Literary Culture 8cp

Spring Shoalhaven Flexible
Spring Bega Education Flexible
Spring Batemans Bay Flexible
Spring Wollongong Flexible

Contact Hours: 1x3hr Seminar x3-weekly; +online interaction.

Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)

Co-requisites: none

Restrictions: none

Exclusions: none

Subject Description: This subject examines twentieth-century Australian literary culture in the context of theories of gender, "race" and colonialism. The subject will explore the benefits and problems of using history to read literature and using literature to "read" history. Topics may include: captivity narratives, scandals, pioneer legends, and the representation of Aboriginal people in non-Aboriginal writing, changing representations of masculinity and contemporary Indigenous photography.

Subject Objectives: On completion of this subject, you should:
1. identify some of the cultural, political, ideological, historical and intellectual background of Australian literary culture in the twentieth century.
2. use scholarly commentaries on issues of "race" class and gender to write critical readings of literary texts.
3. test ideas and arguments before student colleagues and staff in both written and oral forms, and consider the implications of any responses for their intellectual position.
4. demonstrate a respect for the ideas of others and offer critical and informed responses to them.
5. write historised analyses of literary texts at an advanced level.

ENGL373 Studies in Decolonising Literatures 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: To be advised

Subject Description: This subject examines literatures which have grown out of Pacific, South-east Asian and African colonies of the former British Empire. In 2000 the focus will be on Pacific Literatures. The subject considers how issues of nationalism, language, race, gender and cultural identity shape critical and creative practices and examines issues of minority writings within the nation and the implication of regional/national literatures in global systems.

Subject Objectives: information unavailable.

ENGL374 Novel into Film 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 1 paper 40%; 1 take-home test or practical critique 20%; 1 presentation and report 30%; participation 10%

Subject Description: This subject will examine the works of literature and film as separate entities and the fascinating third world which they create when they come together. Using adaptation theory the subject will examine some of the many difficulties which are encountered when a book is brought to the screen, or when a film is translated into a novel.

Subject Objectives: On successfully completing this subject students will be able to identify key debates on the subject of adaptation theory and will be able to apply these to analyze the way texts are shaped by political, economic, and cultural forces. They will understand the debate which has raged over the bias of print and come to understand that neither film nor print texts are to be valorized over the other. Finally, they will have refined their analytical, interpretative, and essay writing skills.

ENGL398 The Vikings - Old Norse Culture, Language and Literature Advanced 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: (At least 6cp of 100 level ENGL and 6cp of 200 level ENGL and any other 6 credit points)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable.

Subject Description: This subject will consist of a detailed study (including translation) of "Njal's Saga" and one or two other texts, the selection of which will be negotiated with students. The sections of Njal's Saga in E V Gordon's "An Introduction to Old Norse" will be read in the original language and studied in detail. In addition, the saga will be read in full in the English translation and studied in class. Emphasis will be a literary understanding of the texts in the original language, not on grammar.

Subject Objectives: information unavailable.

ENGL400 English IV Honours 48cp

Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003

Contact Hours: Seminars & meeting,

Pre-requisites: Major in English at credit average

Co-requisites: none

Restrictions: Entry to the Honours Year shall be determined on the advice of the Honours Co-ordinator and Head of Program

Exclusions: none
Assessment: information unavailable

Subject Description: The Honours course consists of three subjects and a dissertation of 15,000 words. Course work constitutes 60%, and dissertation 40% of the final mark. Supervision must be arranged through the Honours Co-ordinator, in consultation with the Head of Program. Offerings are subject to the availability of staff. Students may be able to take subjects, other than English Studies subjects, after consultation with the Honours Co-ordinator.

Subject Objectives: information unavailable

ENGL403 Combined Honours 48cp

Annual  Wollongong  On Campus
Spring 2002/  Wollongong  On Campus
Autumn 2003

Contact Hours: Seminar & meetings.

Pre-requisites: Major in English at credit average

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: A combination of thesis and coursework

Subject Description: The combined Honours course will consist of a program of study approved by the Head of the English Studies Program in collaboration with the Head of the other Department or Program concerned. The course will normally be composed of elements offered at 400-level by the two Departments or Programs.

Subject Objectives: information unavailable

ENGL499 Special Study 8cp

Spring  Wollongong  On Campus
Autumn  Wollongong  On Campus

Contact Hours: 2hr seminar.

Pre-requisites: Negotiated between Head of English and Head of other Program involved.

Co-requisites: none

Restrictions: Students must have approval of the head of program prior to enrolling.

Exclusions: none

Assessment: information unavailable

Subject Description: This subject is designed to enable Honours students from other departments or programs to take one of the subjects in the English Studies Program Honours course. Enrolment is subject to the approval of the Head of Program.

Subject Objectives: information unavailable

EURO110 France and Italy: A Cultural and Historical Framework 6cp

Spring  Wollongong  On Campus

Contact Hours: 2 hrs lecture, 1 hr seminar.

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: two essay outlines, one essay, short quizzes, final test, tutorial performance

Subject Description: This subject aims to introduce students to specific geographical, historical, cultural forces and social frameworks which contributed to shape modern France, Italy and their peoples. By looking at historical periods such as the Roman Empire, the Renaissance, the French Revolution, the Italian unification, the two Great Wars and their effects, it seeks to provide essential information which forms a very basic part of every French or Italian speaker's consciousness. It is a tool for better understanding the way the French and Italians think and speak and the cultural context in which their articles and books are written.

Subject Objectives: Through the lectures, students should develop a broad understanding of: 1. the historical events and cultural movements in Europe that shaped contemporary France and Italy; 2. the evolution of social structures and political institutions in France and Italy; 3. the relationship between geography and the political and linguistic development of the two countries. Through the tutorials, students should, for their country of specialisation: 4. demonstrate the ability to explore in depth specific topics from different periods of the country's development; 5. read critically and synthesise information from variety of sources, with students majoring in French or Italian expected to read some materials in the target language; 6. demonstrate the ability to do appropriate background reading and to draft coherent and comprehensive essay outlines on prescribed topics; 7. recognise cultural references commonly expressed in contemporary French/Italian media.

EURO210 Nations without States in the European Union 8cp

Autumn  Wollongong  On Campus

Contact Hours: 2 hrs per week lecture/seminar.

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 1 research project, 1 essay and various assignments

Subject Description: This subject aims to study a range of European indigenous minorities and the dynamics of their relationship not only with the Nation-States within which they are situated, but also with each other. It will look at the historical, political and economic integration of these minorities into the wider state and how the rapid political and economic changes occurring in the European Union (EU) affect these relationships.

Subject Objectives: on successful completion of this subject, a student will be able to: 1. Understand the origins and development of linguistic minorities in the E.U; 2. Demonstrate an understanding of the historical/social/political/linguistic aspects of minorities; 3. Have a basic understanding of the relationship between state/regions/minorities and E.U; 4. Understand the process of colonisation; 5. Thoroughly understand one linguistic minority (at least); 6. Understand the concept of "Nationalism"; 7. Appreciate the parallels existing between minorities in E.U and the Aborigines in Australia.

FREN151 French IA Language 6cp

Autumn  Wollongong  On Campus

Contact Hours: 6 hrs L/P p/wk.

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: assignments, tests

Subject Description: This subject, a semi-intensive course, is the entry point to the French major for beginners or near-beginners in French. There is a dual focus on communicative and structural aspects of the language. Listening, speaking, reading and writing skills are developed through a combination
of the classroom activities and assignments. Grammar and speaking skills are supported by computer-based activities. Oral and written assessment tasks are continuous throughout the session.

**Subject Objectives:** On successful completion of this subject, students will be able to: 1. Comprehend simple spoken French in common situations; 2. Extract essential information from basic texts in French, such as short newspaper articles and letters; 3. Express themselves orally in French in situations of basic social interaction, such as initiating conversation, expressing simple ideas, opinions and experiences, and requesting information; 4. Express themselves accurately in written French using simple vocabulary and constructions; perceive system in language and use that awareness to generate meaning; 5. Demonstrate an insight into the values and attitudes of people from another culture.

**FREN152 French IB Language 6cp**

**Spring** Wollongong On Campus

**Contact Hours:** 6 hrs lecture/practical per week.

**Pre-requisites:** FREN151

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** assignments, tests

**Subject Description:** The program begun in FREN151 is sustained and developed, advancing students' proficiency in listening, speaking, reading and writing, and emphasising both communicative and structural aspects of the language. Students read a set of contemporary French short stories and items from current newspapers. Grammar and speaking skills are supported by computer-based activities. Oral and written assessment tasks are continuous throughout the session.

**Subject Objectives:** On successful completion of this subject, a student will be able to: 1. achieve improved comprehension of the speech of French native speakers in situations of everyday communication; 2. develop strategies for coping with unfamiliar lexical and syntactic elements of the written and spoken language; 3. make more flexible use of known language and will be more willing to experiment with unfamiliar language in recounting events and expressing ideas and opinions; 4. read and respond personally to increasingly sophisticated texts; 5. view televised news bulletins, access current affairs Web sites, and synthesise information into written reports; 6. Through exposure to televised news bulletins students will be initiated into the social, cultural and political fabric of contemporary France; 7. consolidate and expand their working knowledge of basic French grammar.

**FREN251 French IIA Language 8cp**

**Autumn** Wollongong On Campus

**Contact Hours:** 4 hrs lecture/practical per week.

**Pre-requisites:** (FREN152) or (approval of Head of Program on basis of HSC French).

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** assignments, presentations, tests

**Subject Description:** This subject is the entry point to the French major for students with a sound pass in 2U HSC French (or equivalent), and the second year of language studies for beginners or near-beginners. Language skills are developed and consolidated through the study of print, audio and video materials; current affairs; a systematic review of basic grammar; listening and conversation activities; and exercises in written expression and reading comprehension. Revision and maintenance of core grammar are achieved through a program of computer-based exercises.

**Subject Objectives:** On successful completion of this subject, students will be able to: 1. achieve improved comprehension of the speech of French native speakers in situations of everyday communication; 2. develop strategies for coping with unfamiliar lexical and syntactic elements of the written and spoken language; 3. make more flexible use of known language and will be more willing to experiment with unfamiliar language in recounting events and expressing ideas and opinions; 4. read and respond personally to increasingly sophisticated texts; 5. view televised news bulletins, access current affairs Web sites, and synthesise information into written reports; 6. Through exposure to televised news bulletins students will be initiated into the social, cultural and political fabric of contemporary France; 7. consolidate and expand their working knowledge of basic French grammar.

**FREN252 French IIB Language 8cp**

**Spring** Wollongong On Campus

**Contact Hours:** 4 hrs lecture/practical per week.

**Pre-requisites:** FREN251

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** assignments, presentations, tests

**Subject Description:** The program for FREN251 is continued and expanded.

**Subject Objectives:** On successful completion of this subject, students will be able to: 1. achieve improved comprehension of the speech of French native speakers in situations of everyday communication; 2. develop strategies for coping with unfamiliar lexical and syntactic elements of the written and spoken language; 3. make more flexible use of known language and will be more willing to experiment with unfamiliar language in recounting events and expressing ideas and opinions; 4. read and respond personally to increasingly sophisticated texts; 5. view televised news bulletins, access current affairs Web sites, and synthesise information into written reports; 6. Through exposure to televised news bulletins students will be initiated into the social, cultural and political fabric of contemporary France; 7. consolidate and expand their working knowledge of basic French grammar.

**Subject Description:** The aim of this subject is to provide an understanding of contemporary French society by tracing the main movements that have occurred over the past three decades in French history, culture and politics. Lectures will cover topics such as political institutions, the French economy, education, immigration, women's rights, and technological change.

**Subject Objectives:** information unavailable
FREN351 French IIIA Language 8cp
Autumn Wollongong On Campus
Contact Hours: 3 hrs lecture/practical per week.
Pre-requisites: FREN252
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: assignments, tests
Subject Description: The subject has analytical and functional components. A study is made of a wide range of styles and registers of written French, including literary, business and commercial texts. The development of students' spoken and written expression is built on the study of current affairs material and contemporary cultural phenomena, and on everyday communication needs. Source materials are multimedia - audio, video, print and Internet. Sensitivity to language structure is enhanced through translation exercises, detailed textual analysis and advanced grammar. Revision and maintenance of core grammar are achieved through a program of computer-based exercises.

Subject Objectives: On successful completion of this subject, students will be able to: 1. comprehend normal spoken French and current affairs as presented in contemporary media; 2. express themselves comfortably in French in everyday situations; 3. gather and synthesise information on topics of current interest from different French-language sources and in different media. 4. recognise culture-specific information and cultural suppositions in French source material; 5. present a personal response (written and spoken) to issues presented in the French media; 6. demonstrate sustained mastery of fundamental French grammar; 7. use effectively the resources of tools such as bilingual dictionaries and descriptive grammars; 8. produce an accurate translation into English of non-specialist French documents.

FREN352 French IIIB Language 8cp
Spring Wollongong On Campus
Contact Hours: 3 hrs lecture/practical per week.
Pre-requisites: FREN351
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: assignments, tests
Subject Description: The program for FREN351 is continued and expanded.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. comprehend normal spoken French and current affairs as presented in contemporary media; 2. express themselves comfortably in French in everyday situations; 3. gather and synthesise information on topics of current interest from different French-language sources and in different media. 4. recognise culture-specific information and cultural suppositions in French source material; 5. present a personal response (written and spoken) to issues presented in the French media; 6. demonstrate sustained mastery of fundamental French grammar; 7. use effectively the resources of tools such as bilingual dictionaries and descriptive grammars; 8. produce an accurate translation into English of non-specialist French documents; 9. identify key features of style and register in a range of contemporary French writing.

FREN361 French IIIC 8cp
Autumn Wollongong On Campus
Contact Hours: 1 hr seminar, 2 hrs supervised work per week.
Pre-requisites: FREN252
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: set out in Subject Outline
Subject Description: This is a reading course offered under the direct supervision of a member of staff. Topics, as determined by the Coordinator for French, will be chosen from an area of French language, literature or civilisation and provide a program of advanced work complementing the student's prior studies in French.

Subject Objectives: information unavailable

FREN362 French IIID 8cp
Spring Wollongong On Campus
Contact Hours: 1hr seminar, 2 hrs supervised work per week.
Pre-requisites: FREN252
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: set out in Subject Outline
Subject Description: This is a reading course offered under the direct supervision of a member of staff. Topics, as determined by the Coordinator for French, will be chosen from an area of French language, literature or civilisation and provide a program of advanced work complementing the student's prior studies in French.

Subject Objectives: information unavailable

FREN391 French Study Abroad A 8cp
Autumn France On Campus
Spring France On Campus
Summer 2002/2003 France On Campus
Contact Hours: To determined by host university.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: not available
Subject Description: Students taking this subject will undertake an approved course of studies at a French University deemed equivalent to an 8 credit point 300 level subject at the University of Wollongong. This subject will be taken under the supervision of a member of staff and a detailed subject outline will be provided. Permission to undertake this subject must be obtained at least six months prior to the proposed departure date from Australia. Any variation to the initial proposal must be approved by the Head of Program and approval will be given only in exceptional circumstances.

Subject Objectives: information unavailable

FREN392 French Study Abroad B 8cp
Autumn France On Campus
Spring France On Campus
Summer 2002/2003 France On Campus
Contact Hours: To be determined by host university.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Subject Descriptions

Exclusions: none
Assessment: not available

Subject Description: Students taking this subject will undertake an approved course of studies at a French University deemed equivalent to an 8 credit point 300 level subject at the University of Wollongong. This subject will be taken under the supervision of a member of staff and a detailed subject outline will be provided. Permission to undertake this subject must be obtained at least six months prior to the proposed departure date from Australia. Any variation to the initial proposal must be approved by the Head of Program and approval will be given only in exceptional circumstances.

Subject Objectives: information unavailable

FREN393 French Study Abroad C 8cp
Autumn  France On Campus
Spring  France On Campus
Summer 2002/2003 France On Campus
Contact Hours: To be determined by host university.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: not available

Subject Description: Students taking this subject will undertake an approved course of studies at a French University deemed equivalent to an 8 credit point 300 level subject at the University of Wollongong. This subject will be taken under the supervision of a member of staff and a detailed subject outline will be provided. Permission to undertake this subject must be obtained at least six months prior to the proposed departure date from Australia. Any variation to the initial proposal must be approved by the Head of Program and approval will be given only in exceptional circumstances.

Subject Objectives: information unavailable

FREN450 French IV Honours 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: FREN352
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: not available

Subject Description: Students take five (5) subjects, normally three in the first session and two (including the dissertation) in the second session. The five subjects will comprise either three subjects from (a), (b), (c) and (d), together with (e) and one subject from (f), or two subjects from (a), (b), (c) and (d), together with (e) and two subjects from (f). Honours Subjects: (a) Literary theory, (b) Historical research, (c) Civilisation, (d) Introduction to linguistic research, (e) Special subject, (f) Contextual study - One or two 300-level subjects not already taken.

Subject Objectives: information unavailable

GENE216 Women in Society: Images and Representation 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: 8 cp
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: This subject focuses on cultural representations of women in industrial societies in sexual, maternal and work roles. The images of women in literature, art and popular culture will be examined using contemporary feminist perspectives.

Subject Objectives: information unavailable.

HIST107 Plunder, Profit and Progress: Empires and Colonies 6cp
Autumn Wollongong On Campus
Contact Hours: 3hrs lecture, tutorials and seminars.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay of 2,000 words 35%; examination or optional essay of 1,500 words 30%; tutorial exercise of 400 words (WebCT based) 10%; tutorial paper of 800 words 15%; tutorial participation 10%.

Subject Description: Examines the formation of the modern world of which Australia is part, by looking at the history of empires and colonisation. Major themes include: theories of empire building and colonialism, relations between indigenous populations and colony-builders, the role of trade in empire. Empires to be examined will be chosen from the following: Mongol Empire, Ottoman Empire, Islamic Empires, Chinese Empire, Iberian Empires, Dutch Trading Empire, British Empire.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. develop a command of basic knowledge of the empires studied; 2. identify common themes in processes of imperialism; 3. differentiate between different empires on the basis of temporal and cultural factors; 4. describe features of interactions between colonisers and indigenous populations; 5. explain how empires contribute to population movements; 6. demonstrate the links between empires and economic patterns.

HIST108 War, Dictatorship and Propaganda in Europe 1918-1945 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hours per week lectures, tutorials and WebCT.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay of 1,500 words 35%; examination 30%; weekly tutorial exercises 25%; participation 10%.

Subject Description: This subject compares the Soviet and Nazi dictatorships. It examines the historical roots, political systems, uses of violence, everyday life and political imagery of the Soviet Union and Nazi Germany between the wars. It compares the leadership style of Hitler and Stalin and their contribution to the outbreak and course of World War Two.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Express clearly in written and oral form his/her view on the main similarities and differences of the Soviet and Nazi dictatorships. 2. Critically evaluate concepts employed by historians and political scientists to interpret the Soviet and Nazi dictatorships. 3. Use electronic resources for the purposes of research and discussion. 4. Demonstrate a knowledge of the basic historian's conventions.

HIST121 Dispossessed, Diggers and Democrats: Australia 1788 to 1888 6cp
Spring Wollongong On Campus
Contact Hours: 3 hours per week lectures & tutorials.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 essays 35% each; tutorial presentation and annotated bibliography 10%; tutorial exercise 10%; tutorial participation 10%
Subject Description: This subject focuses on history from below: the extraordinary experiences and contributions of ordinary people in colonial Australia. It examines the British dis/possession of Australia; the character of penal society and the transformation to free society; the interaction of European and Aboriginal societies; European exploration and the politics of land ownership; the gold rushes; ethnicity and race in colonial society; gender relations and power; the development of a working class and labour movement; the dominance and impact of the middle class culture and ideology of progressive liberalism; and the changing character of work and consumption.
Subject Objectives: On successful completion of this subject, a student will be able to:
1. Demonstrate detailed knowledge of key factors shaping the evolution of Australian society in the 19th century.
2. Demonstrate an ability to critically evaluate and use a range of primary sources.
3. Demonstrate an awareness of the existence of historiographical debates and the evolution of historical knowledge.
4. Express clearly in written and oral form his/her views on issues raised in the subject.
5. Access electronic and Web-based sources of information

HIST124 The Cold War and After 8cp
Spring Wollongong On Campus
Contact Hours: Three hours lectures, tutorials and WebCT per week.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay (1,500 words) 35%; exam 30%; weekly tutorial exercises 25%; participation 10%
Subject Description: This subject examines the politics and image making of the forty-year contest between the American and Soviet superpowers. To help in the understanding of different concepts and interpretations of the Cold War, a number of case studies are undertaken. These include the battle for Europe, the Suez Crisis, the Cuban Missile Crisis, the Vietnam War and the fall of the Soviet Union.
Subject Objectives: On successful completion of this subject, a student will be able to:
1. Express clearly in written and oral form his/her view on the origins, course and outcome of the Cold War.
2. Critically evaluate concepts employed by historians and political scientists to interpret the politics and image making of the Cold War.
3. Use electronic resources for the purposes
of research and discussion.
4. Demonstrate a knowledge of the basic historian's conventions.

HIST205 Ancient History (Greece and Rome) 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (6 cp of HIST) or (HIST101)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 essays 80%, tutorial presentation 20%
Subject Description: Examines the ancient societies of Greece and Rome within the broad context of the birth of Western civilisation and ancient world history. Covers approximately 800 years of history, but focuses on Fifth Century Greece and Rome of the Late Republic and Early Empire. Analyses the social, political, economic and cultural development of the Greek polis (city state) to the time of Alexander. Surveys the Hellenistic world and analyses the Late Roman Republic from 133BC.
Subject Objectives: Information unavailable.

HIST210 The European Union: Post-war integration, 1945 to 1995 8cp
Autumn Wollongong On Campus
Contact Hours: 2 hour lecture plus 1 hour tutorial per week.
Pre-requisites: (6 cp of HIST) or (AUST101) or (6cp of POL)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Summary of article 15%; tutorial presentation 15%; 1 essay 30%, exam 30%; tutorial participation 10%
Subject Description: This subject identifies and examines the political, economic and social processes driving European integration from the end of World War Two to 1995. It explores the thinking behind and the development of the European Economic Community (EEC), the pivotal role of France and Germany in European integration, the relationship between nation states and supranational institutions, and the implications for Europe of the collapse of the Soviet bloc.
Subject Objectives: On successful completion of this subject, a student will be able to:
1. Use electronic databases and the internet to identify and exploit primary and secondary sources.
2. Demonstrate an understanding of the political, economic, and social causes underpinning European integration and the creation and evolution of the EEC and other European institutions and organizations.
3. Demonstrate a basic understanding of the structure and role of the EEC, structural changes, and the relationship between supranational institutions and nation States.
4. Demonstrate a knowledge of the identity and role of the major States that promoted, influenced and challenged moves towards European integration.

HIST218 Consensus, Conflict and Culture: Australia 1888-1988 8cp
Autumn Moss Vale On Campus
Autumn Shoalhaven On Campus
Autumn Bega Education Access Centre
Autumn Batemans Bay On Campus
Contact Hours: Shoalhaven - Information unavailable; Bega Education Access Centre and Batemans Bay - 3 hours lectures and tutorials per week.
Pre-requisites: (6 cp of HIST), or (AUST101) or (6cp of ARTS)
subject description: examines the history of russians and their society in the second century of european settlement. focuses on how russians understood their society, and how those understandings helped shape russian history. topics studied are class and gender in the 1890s; nation making; indigenous russians; modernization; impacts of wars; immigration; industrialisation; the making of a consumer society; gender and ethnicity politics; 1960s social protest and transformations.

subject objectives: on successful completion of this subject, a student will be able to: 1. demonstrate detailed knowledge of key factors shaping the evolution of russian society in the 20th century. 2. demonstrate an ability to critically evaluate and use case study in primary and secondary sources. 3. demonstrate an awareness of the existence of historiographical debates and the evolution of historical knowledge. 4. express clearly in written and oral form his/her views on issues raised in the subject.

hist232 russia in war and revolution 8cp
spring wollongong on campus
contact hours: three hours lectures, tutorials and webct.
pre-requisites: (6 cp of hist) or (aust101)
co-requisites: none
restrictions: none
exclusions: none
assessment: 1 essay (1,500 words) 35%; exam 30%, weekly tutorial exercises 25%; participation 10%
subject description: this subject looks at a broad sweep of russian history from the vikings to the collapse of the soviet union in comparative context. topics dealt with in detail include early russia, the mongols, the tsars, the russian revolution, the soviet union and the gorbachev era. the subject investigates the crucial role russia has played in world history.

subject objectives: on successful completion of this subject, a student will be able to: 1. express clearly in written and oral form his/her views on the main themes of russian history. 2. critically evaluate concepts employed by historians and political scientists to russia and soviet history. 3. use electronic resources for the purposes of research and discussion.

hist275 the growth of the united states, 1865-1898 8cp
autumn wollongong on campus
contact hours: 1 hr lecture, 2hr seminar per week.
pre-requisites: (6 cp of hist) or (aust101)
co-requisites: none
restrictions: none
exclusions: none
assessment: two essays (2,000 words each) (25% & 35%) tutorial paper (1,000 words) & presentation (30%) tutorial participation (10%)
subject description: this subject examines the growth of the united states in the period following the american civil war. it looks at the frontier experience and the role of manifest destiny. it also considers the impact of industrial change. issues of race, class, gender and ethnicity are considered as factors in the development of the postbellum united states. attention is directed to the tensions of an expanding nation state and the spanish-american war of 1898 is used as a measure of us progress in the second half of the nineteenth century.

subject objectives: on successful completion of this subject, a student will be able to: 1. express views raised in this subject clearly in oral and written form. 2. demonstrate an awareness of differing interpretations about the growth of the united states. 3. appreciate the impact of diverse issues like class, race, gender and ethnicity on the development of the antebellum united states. 4. critically evaluate the formation of the united states as a modern nation state. 5. use modern technology for purposes of discussion and learning.

hist276 america's rise to globalism since 1919 8cp
spring wollongong on campus
contact hours: 1 hr lecture, 2hr seminar per week.
pre-requisites: (6 cp of hist) or (aust101)
co-requisites: none
restrictions: none
exclusions: none
assessment: two essays (30% each) tutorial paper (1,000 words) (30%) tutorial participation (10%)
subject description: this subject is concerned with the rise of the united states to world leadership. the us entered the european war massively in debt as a consequence of its industrial expansion during previous decades. it emerged as the great creditor nation of the world. during the remainder of the twentieth century, this position of pre-eminent wealth was converted into global power. the dominance of the united states and its emergence as the reigning hegemon is explored through a range of political, diplomatic, military, social, and economic issues.

subject objectives: on successful completion of this subject, a student will be able to: 1. express views raised in this subject clearly in oral and written form. 2. demonstrate an awareness of differing interpretations about the rise of the united states to global leadership. 3. appreciate the impact of diverse political, economic, social, diplomatic, and military factors on the rise of the united states. 4. critically evaluate the expansion of the united states as a world power. 5. use modern technology for purposes of discussion and learning.

hist286 from ancient kingdoms to colonies: southeast asia, 1500-1870 8cp
contact hours: subject not on offer in 2002.
pre-requisites: (6 cp of hist) or (aust101)
co-requisites: none
restrictions: none
exclusions: none
assessment: 1 x 2,000 word essay 40%; 2 tutorial papers (1,500 words each) 25% each; participation 10%
subject description: examines the forces of change in southeast asia between 1500 and 1870. religion, trade and social organisation such as law and slavery. the changing european role in southeast asia from marginal traders to colonial rulers is viewed as part of the process of change which allowed tribal groups to survive until the age of high colonialism.

subject objectives: on successful completion of this subject, a student will be able to: 1. demonstrate a knowledge of the impact of colonisation on southeast asian societies; 2. critically evaluate the historiography of colonisation; 3. express clearly in written and oral form views on issues raised by the subject; 4. demonstrate the ability present views on these issues in oral form; 5. demonstrate an awareness of cultural diversity.
HIST287 Southeast Asian Transformation 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (6 cp of HIST) or (AUST101)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay (2,000 words) 40%; 2 tutorial papers (1,500 words each) 25% each; tutorial participation 10%
Subject Description: This subject looks at how local and foreign theorists tried to understand the social processes and changes taking place both within nations and on a regional basis, from the 1870s to the WWII. It provides insights to the nature and prospects of the rapidly modernising societies in Southeast Asian region.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate a knowledge of the impact of colonisation on Southeast Asian societies; 2. Critically evaluate the historiography of colonisation; 3. Express clearly in written and oral form views on issues raised by the subject; 4. Demonstrate the ability present views on these issues in oral form; 5. Demonstrate an awareness of cultural diversity.

HIST288 Religion and Military Rule in Southeast Asia 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (6 cp of HIST) or (AUST101)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1 essay of 1,500 words 30%; 1 essay of 2,500 words 40%; 1 tutorial exercise in two parts 20%; tutorial participation 10%
Subject Description: Examines the twentieth-century experiences of colonialism, nationalism and modernisation in Burma, Thailand, Laos and Cambodia. We ask what the roles of Buddhism and ethnicity were in these transformations, and how they are compatible with the two forces of socialism and militarism.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Develop a command of basic knowledge of the countries studied; 2. Analyse relationships between religion and social and political action; 3. Describe cultural, social and economic features of modernisation; 4. Explain the roles of ethnicity and nationalism in relationship to identity; 5. Explain the rise of forms of militarism especially in relation to the state; 6. Demonstrate links between patterns of colonial rule and present-day problems in Southeast Asia.

HIST291 Film and History 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (6 cp of HIST) or (AUST101) or (6 cp of ENGL) or (6 cp of CCS) or (6 cp of POL)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay (2,000 words) 30%; film review (2,000 words) 30%; tutorial presentation with annotated bibliography 10%; WebCT discussion 30%
Subject Description: Film is a powerful tool when it comes to representations of the past, frequently commanding more authority than the works of scholars. Using selected examples, this subject examines the use of film as an interpretive tool in historical representation, setting a film version of selected events against the interpretations of scholars. History, rather than the medium, is the focus of the subject.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Critically evaluate the use of film as an interpretive approach to history; 2. Express clearly in written and oral form views on issues raised in the subject; 3. Demonstrate an awareness of different ways of approaching a study of the past; 4. Demonstrate an appreciation of and respect for cultural diversity; 5. Use modern technology for discussion.

HIST315 Comparative Settler Capitalism 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8 cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Minor essay 30%; major essay 45%; review essay 15%; participation 10%
Subject Description: The term settler capitalism describes the specific form of colonialism typified by Australia, New Zealand, South Africa and Argentina. This course examines and explains the remarkable similarities and the subtle differences in these societies' histories. Beginning around 1700, it seeks to identify the unique features of Australian historical evolution, and those features that Australia shares with the other societies. Topics include environmental colonisation and history, indigenous societies, transplanting European economic forms, people and culture, gender relations; working class histories; state formation and nation building.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Describe and use the concept settler capitalism as a typology and theory; 2. Describe key similarities and differences in Australian, New Zealand, Argentinian and South African histories; 3. Critically evaluate the relative importance of environmental, social, cultural and political factors in accounting for historical similarities and differences; 4. Support his/her ideas with appropriate use of historical evidence.

HIST318 The Making of the Modern Australian Woman 8cp
Spring
Contact Hours: 3 hours per week lectures and tutorials.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8 cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 essays 60%; research paper 30%; tutorial participation 10%
Subject Description: Examines the major forces determining the position of women in twentieth century Australia. Topics include the domestic ideology, the demographic transition of the late nineteenth century, structural change in the economy, widening educational opportunities and the growth of tertiary sector employment for women. A major focus is the interaction of ethnicity, class and gender in constructing the diverse social category of womanhood.
Subject Objectives: On successfully completing this subject students will be able to evaluate the main forces which have altered the lives of Australian women in the twentieth century. They will be able to describe the economic and demographic

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factors which have interacted to produce these changes. They will be able to distinguish between first and second wave feminism and to trace the intellectual underpinnings of each. They will be familiar with the historiographical debate on women's history and the way in which this subject has achieved a place in the University curriculum. Finally they will have acquired more sophisticated skills in historical analysis and essay writing.

HIST325  Theory and Method of History  8cp
Spring  Wollongong  On Campus
Contact Hours: 2 hr seminar per wk.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Minor essay 35%; research proposal 50%; participation 15%
Subject Description: Explores theory and practice of contemporary historical enquiry. Theoretical issues include: causation in historical enquiry, types of explanation, facts versus values, varieties of history writing, the production and status of historical knowledge. Methodological issues include: formulating research problems, planning and undertaking research, understanding and using secondary and primary sources, accessing and retrieving research information.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate knowledge of the relevance of theory to historical enquiry. 2. Demonstrate knowledge of historical research methods. 3. Formulate a research proposal using appropriate theory and method. 4. Critically assess a range of ways of doing history. 5. Identify key issues in the construction of historical knowledge. 6. Express his/her views on issues raised in the subject.

HIST334  Regional History  8cp
Autumn  Wollongong  On Campus
Autumn  Shoalhaven  On Campus
Autumn  Bega Education  On Campus
Autumn  Batemans Bay  On Campus
Contact Hours: Wollongong - 2 hour seminar per week. Other - Information not available.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level) or (14cp of ARTS)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay of 3,000 words 40%; book review of 1,500 words 20%; seminar presentation with annotated bibliography 20%; WebCT discussion 20%
Subject Description: Regional studies approach history from the perspective of place. They examine the response of regional and local communities to the general responses identified by historians. This subject examines the nature of regional identity, place and landscape using both theoretical literature and case studies. The regions chosen can vary from year to year.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Critically evaluate the use of regional methodology as an analytical tool; 2. Critically evaluate the use of the regional concept by a leading regional historian; 3. Assess the place of regions within popular culture; 4. Analyse the place of the regional form within popular culture as an approach to historical interpretation; 5. Express clearly in written and oral form views on issues raised during the subject; 6. Use modern technology for both research purposes and for discussion; 7. Demonstrate an awareness of disciplinary approaches to regional theory outside the discipline of History.

HIST336  Australians and War 1914-1972  8cp
Autumn  Wollongong  On Campus
Contact Hours: 3 hours lectures and tutorials per week.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level) or (14cp of POL with 8cp at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Book review of 1,500 words 20%; research project of 3,000 words 40%; tutorial presentation with annotated bibliography 10%; examination 30%
Subject Description: Examines the impact of war on Australian society with an emphasis on the two World Wars and the Vietnam conflict. The subject's primary interest lies with the Home Front. Major themes examined include the motivation to enlist, the experience of the ordinary soldier, conscription, the place of women in wartime Australia, prisoners of war, social change and the place of digger and Anzac in Australia's sense of identity.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate a knowledge of the impact of war on Australian society; 2. Critically evaluate the historiography of war and Australian society; 3. Express clearly in written and oral form views on issues raised by the subject; 4. Demonstrate the ability to undertake research using primary sources; 5. Critically evaluate the work of one historian in the field.

HIST338  Advanced Topics in the History of Science 1500-1800  8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay 50%; 2 seminar report write-ups 50%
Subject Description: Deals each year with one advanced history of science topic in the Scientific Revolution and/or Enlightenment. Textual criticism of primary sources is emphasised, along with recent historiographical debates. Topics include: the body in the Scientific Revolution; Descartes and the rise of the Mechanical Philosophy; the experimental life - origins or processes; Newton and Newtonianism; the natural philosophical field and its sites - universities, courts, scientific societies and correspondence networks.
Subject Objectives: information unavailable.
HIST360  War, death and society: Europe 1350-1650  8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Summary of article 10%; Seminar paper 20%; Research essay 30%; Participation 10%; Examination 30%
Subject Description: This subject focuses on factors in the development of European states and society, including the great epidemics and wars of the period and their impact. Topics will include the Black Death and the rebellions and wars of the 15th, 16th and 17th centuries (up to 1650).
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Use electronic databases and the internet to identify and exploit primary and secondary sources. 2. Demonstrate an understanding of the economic, social and political reasons for the decline of feudalism and the changing nature and role and impact of war, and the emergence of the modern European state.

HIST361  Fascism and the Authoritarian Right in Twentieth Century Europe  8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level) or (14cp of POL with 8cp at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial paper 20%; Research Essay 50%; Examination 30%
Subject Description: Examines the authoritarian Right and fascism in twentieth century Europe. The theoretical literature regarding the nature of fascism will be analysed, followed by an examination of the ideological origins of fascism. A number of right wing regimes, including Fascist Italy, Nazi Germany, Franco’s Spain and Vichy France are then considered. The aim is to examine the extent to which these regimes can be described as fascist.
Subject Objectives: information unavailable.

HIST363  Revolutions in World History  8cp
Autumn  Wollongong  On Campus
Contact Hours: 2 hours seminar per week.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research essay 60%; paper 30%; participation 10%
Subject Description: Examines the concept of revolution as a means of understanding some of the major transformations that have taken place in world history. Focus in any given year will involve looking at 2 or 3 major revolutions, upheavals, catastrophes, and/or major transformations in depth. Revolutions for study could include agricultural, state, Christian, Islamic, military, scientific, capitalist, democratic (American and French), industrial, socialist (Russia and China).
Subject Objectives: On successful completion of this subject, students will: 1. Have a knowledge of, and be able to discuss critically, the theoretical literature regarding the nature of revolution, rapid transforming change including catastrophes and its utility as a conceptual tool to explain historical change. 2. Have developed an indepth knowledge of two or three major world revolutions and/or catastrophic transformations. 3. Have developed their research capacities through having undertaken a major research project relating to a world revolution.

HIST379  Culture and Identity in Indonesian History, 1870-2001  8cp
Spring  Wollongong  On Campus
Contact Hours: 3 hours lectures, tutorials, seminars.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: One essay of 1,500 words (30%); One essay of 2,500 words (40%); One tutorial exercise (20%); Tutorial participation (10%)
Subject Description: Examines Indonesian experience and perceptions of the modern age. Using novels, autobiographies, films and other texts the subject examines the roles of Javanese and other cultures in Indonesian nationalism, Dutch colonialism, the Revolution, the politics of culture in post-Revolution Indonesia, the rise of the military and the role of Socialism. Particular attention is paid to the ideology of development in Suharto’s Indonesia, using tourism in Bali as a case study.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. develop a command of basic knowledge of Indonesian history; 2. analyse relationships between culture and politics using sources from a variety of media; 3. demonstrate a knowledge of issues in historiography; 4. explain problems of development in relation to state policies; 5. analyse the roles of different ideologies in social change; 6. explain the concept of modernity and its social and cultural implications.

HIST380  Twentieth Century Australian Literary Culture  8cp
Spring  Wollongong  Flexible
Spring  Shoalhaven  Flexible
Spring  Bega Education  Access Centre
Spring  Batemans Bay  Flexible
Contact Hours: 1x3hr Seminar x 3wkly; +online interaction.
Pre-requisites: (14 cp of HIST with 8 cp at 200-level) or (AUST101 with 8cp of HIST at 200-level) or (AUST101 and POL230) or (POL230 and 8 cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: AUST300 and ENGL371
Assessment: Bulletin Board Postings (1,000 words) 15% ; essay 1 (1,500-2,000 words) 35%; essay 2 (1,500-2,000 words) 35%, participation 15%
Subject Description: This subject examines twentieth-century Australian literary culture in the context of critical theories of gender, “race” and colonialism. This subject examines some twentieth century Australian texts in terms of concepts of race,
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Define the historical process of commodification. 2. Critically evaluate its social, collective and individual impacts. 3. Evaluate the contributions to commodification studies made by key theorists. 4. Analyse the process of commodification in specific societies, and in relation to specific examples. 5. Critically debate the social implications of commodification as a general process.

HIST401 History IV (Honours) 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: 52 cp in a History Major at an average of no less than 70% (including HIST325 Theory and Method at 70% or better)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research thesis 80%; 2 - 3 essays 40%;
Subject Description: Requirements: (1) Research thesis of 15,000-20,000 words, based on student's own supervised research and making a modest contribution to historical knowledge; (2) Two to three major essays totalling 11,000 - 12,000 words based on the seminar series (3) Regular attendance at weekly honours seminars (two sessions); (4) A work in progress report to be delivered to the seminar group
Subject Objectives: information unavailable

ITAL151 Italian IA Language 6cp
Autumn Wollongong On Campus
Contact Hours: 6 hrs tutorial/practical per week.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: LANG153 or ITAL103
Assessment: 3 written tests 25% Computer tests 15%
Language laboratory assignments 15% Other written assignments 15% Oral test 15% Participation 15%
Subject Description: This is a semi-intensive language course for beginners or near-beginners in Italian and presupposes no prior study of the language. The approach is a functional-notional one which places major emphasis on the
communicative functions of language. Revision and maintenance of core grammar are achieved through computer-aided language learning exercises. Oral and written skills are developed through a combination of classroom activities, language laboratory exercises and assignments. Up to date cultural information is also given.

**Subject Objectives:** On successful completion of this subject students will: 1. achieve a basic proficiency in listening and speaking Italian; 2. achieve a basic proficiency in reading and writing Italian; 3. gain an understanding of major cultural and social values of Italians.

**ITAL152 Italian IB Language**

*Spring*  
Wollongong  
On Campus

**Contact Hours:** 6 hrs tutorial/practical per week.
**Pre-requisites:** ITAL151  
**Co-requisites:** none  
**Restrictions:** none

**Exclusions:** none

**Assessment:** 3 written tests 25%  
Computer tests 15%  
Language laboratory assignments 15%  
Other written assignments 15%  
Oral test 15%  
Participation 15%

**Subject Description:** The program begun in ITAL151 is sustained and developed. Revision and maintenance of core grammar are achieved through a programme of computer-aided language learning exercises. Oral and written skills are developed through a combination of classroom activities, language laboratory exercises and assignments. Oral and written assessments are continuous throughout the session. Successful completion of ITAL152 qualifies students for entry into ITAL251 and ITAL210.

**Subject Objectives:** On successful completion of this subject, students will further their 1. basic proficiency in listening and speaking Italian; 2. basic proficiency in reading and writing Italian; 3. understanding of major cultural and social values of Italians.

**ITAL251 Italian IIA Language and Literature**

*Autumn*  
Wollongong  
On Campus

**Contact Hours:** 4 hrs tutorial/practical per week.
**Pre-requisites:** ITAL152  
**Co-requisites:** none  
**Restrictions:** none

**Exclusions:** none

**Assessment:** 2 written tests 30%  
Conversation 15%  
Oral presentation 15%  
Other assignments 15%  
Language laboratory assignments 15%  
Participation 10%

**Subject Description:** The emphasis is on the further development of all the communicative skills in standard Italian. Major attention is given to more complex language structures and their use. Fluency for direct oral communication is further strengthened through a laboratory tape program and small group conversation practicals. The various communicative skills are developed by the use of carefully programmed Subject Objectives: On successful completion of this subject students will: 1. develop their proficiency in listening and speaking Italian; 2. refine their proficiency in reading and writing Italian; 3. further develop their knowledge of various cultural and social values of Italians; 4. be able to use information from a variety of Italian media.

**ITAL252 Italian IIB Language and Literature**

*Spring*  
Wollongong  
On Campus

**Contact Hours:** 4 hrs tutorial/practical per week.
**Pre-requisites:** ITAL251  
**Co-requisites:** none  
**Restrictions:** none

**Exclusions:** none

**Assessment:** 2 written tests 30%  
Conversation 15%  
Oral presentation 15%  
Other assignments 15%  
Language laboratory assignments 15%  
Participation 10%

**Subject Description:** The program begun in ITAL251 is continued.

**Subject Objectives:** On successful completion of this subject students will: 1. further develop their proficiency in listening and speaking Italian; 2. further develop their proficiency in reading and writing Italian; 3. further develop their knowledge of various cultural and social values of Italians; 4. be able to use information from a variety of Italian media.

**ITAL351 Italian IIIA Language and Literature**

*Autumn*  
Wollongong  
On Campus

**Contact Hours:** 3 hrs tutorial/practical per week.
**Pre-requisites:** ITAL252  
**Co-requisites:** none  
**Restrictions:** none

**Exclusions:** none

**Assessment:** 2 written tests 30%  
Oral presentation and test 20%  
Assignments (Lab. Manual and tapes) 20%  
Aural comprehension tests 20%  
Participation 10%

**Subject Description:** This is an advanced subject in Italian language and styllistics based on the Corso Superiore used at Perugia's Universita Italiana per Stranieri. Fine points of advanced grammar, linguistic structure and stylistic use are studied. Reading comprehension, translation, text analysis and written expression are further developed by the use of graded selections taken from the contemporary printed media and from contemporary works of Italian literature.

**Subject Objectives:** On successful completion of this subject students will: 1. refine their proficiency in listening and speaking Italian; 2. refine their proficiency in reading and writing Italian; 3. further develop their knowledge of various cultural and social values of Italians; 4. be able to use information from a variety of Italian media.

**ITAL352 Italian IIID Language and Literature**

*Spring*  
Wollongong  
On Campus

**Contact Hours:** 3 hrs tutorial/practical per week.
**Pre-requisites:** ITAL351  
**Co-requisites:** none  
**Restrictions:** none

**Exclusions:** none

**Assessment:** 2 written tests 30%  
Oral presentation and test 20%  
Assignments (Lab. Manual and tapes) 20%  
Aural comprehension tests 20%  
Participation 10%

**Subject Description:** The program begun in ITAL351 is continued.

**Subject Objectives:** On successful completion of this subject students will: 1. refine their proficiency in listening and speaking Italian; 2. refine their proficiency in reading and writing Italian; 3. further develop their knowledge of various cultural and social values of Italians; 4. be able to use information from a variety of Italian media.
ITAL361 Interpreting I 8cp
Autumn Wollongong On Campus
Contact Hours: 5 hours of lecture/practical per week.
Pre-requisites: ITAL352
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final Test 30% Translation assignments 25% Language laboratory assignments 10% Feedback assignment 10% Essay 10% Participation 10%
Subject Description: The course has a dual purpose: (1) Consolidation and advancement of language studies undertaken in previous years leading to advanced proficiency in written and oral communication skills and in translation; (2) Development of the language and associated skills and cultural knowledge compatible with the ability to function as interpreter at a level equivalent to NAATI paraprofessional accreditation (formerly level 2).
Subject Objectives: On successful completion of this subject students will: 1. refine their proficiency in listening and speaking Italian; 2. refine their proficiency in reading and writing Italian; 3. further develop interpreting and translating skills at paraprofessional level.
ITAL362 Interpreting II 8cp
Spring Wollongong On Campus
Contact Hours: 5 hours lecture/practical per week.
Pre-requisites: ITAL361
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final Test 30% Translation assignments 25% Language laboratory assignments 10% Feedback assignment 10% Essay 10% Participation 10%
Subject Description: The course begun in ITAL361 is continued and expanded
Subject Objectives: On successful completion of this subject students will: 1. refine their proficiency in listening and speaking Italian; 2. refine their proficiency in reading and writing Italian; 3. further develop interpreting and translating skills at paraprofessional level.
ITAL391 Italian Study Abroad A 8cp
Autumn Italy On Campus
Spring Italy On Campus
Summer 2002/2003 Italy On Campus
Contact Hours: As required.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: to be advised by host university
Subject Description: Students taking this subject will undertake an approved course of study at an Italian University deemed equivalent to an 8 credit point 300 level subject at the University of Wollongong. This subject will be taken under the supervision of a member of staff and a detailed subject outline will be provided. Permission to undertake this subject must be obtained at least six months prior to the proposed departure date.
Subject Objectives: information unavailable
ITAL392 Italian Study Abroad B 8cp
Autumn Italy On Campus
Spring Italy On Campus
Summer 2002/2003 Italy On Campus
Contact Hours: As required.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: to be determined by host University
Subject Description: Students taking this subject will undertake an approved course of study at an Italian University deemed equivalent to an 8 credit point 300 level subject at the University of Wollongong. This subject will be taken under the supervision of a member of staff and a detailed subject outline will be provided. Permission to undertake this subject must be obtained at least six months prior to the proposed departure date.
Subject Objectives: information unavailable
ITAL393 Italian Study Abroad C 8cp
Autumn Italy On Campus
Spring Italy On Campus
Summer 2002/2003 Italy On Campus
Contact Hours: As required.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: to be determined by host university
Subject Description: Students taking this subject will undertake an approved course of study at an Italian University deemed equivalent to an 8 credit point 300 level subject at the University of Wollongong. This subject will be taken under the supervision of a member of staff and a detailed subject outline will be provided. Permission to undertake this subject must be obtained at least six months prior to the proposed departure date.
Subject Objectives: information unavailable
ITAL450 Italian IV Honours 48cp
Annual Wollongong On Campus
Spring Wollongong On Campus
2002/Autumn 2003 On Campus
Contact Hours: 8hrs p/wk.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: one seminar paper and one essay
Subject Description: Students take five (5) subjects, normally three in the first session and two (including the dissertation) in the second session. The five subjects will comprise either three subjects from (a), (b), (c) and (d), together with (e) and one subject from (f), (a), (b), (c) and (d), together with (e) and two subjects from (f). Honours Subjects: (a) Literary theory, (b) Historical research, (c) Civilisation, (d) Introduction to linguistic research, (e) Special subject, (f) Contextual study - One or two 300-level subjects not already taken.
Subject Objectives: information unavailable
JAPA101  An Introduction to Japanese  
6cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: none  
Co-requisites: none  
Restrictions: none  
Exclusions: (JAPA102) or (JAPA103)  
Assessment: assignments, classwork, tests.  
Subject Description: This subject is not part of the Japanese major, but is being offered as an elective subject in the Summer Session. It is designed for students with no prior knowledge of the Japanese language. It will introduce the syllabaries of Japanese, Hiragana and Katakana and survival language functions relevant to contemporary contexts.  
Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve an elemental competency in reading and writing Japanese. 2. achieve a basic proficiency in listening and speaking Japanese. 3. demonstrate a basic understanding of the social context in which Japanese is spoken. 4. produce Japanese teaching materials for use in schools.  
JAPA102  Japanese Studies for Educational Purposes  
6cp  
Contact Hours: 3 hrs per week.  
Pre-requisites: none  
Co-requisites: none  
Restrictions: none  
Exclusions: (JAPA101) or (JAPA103)  
Assessment: Language tests 45%, assignments 45%, participation 10%  
Subject Description: This subject is not part of the Japanese major, but is being offered as an elective subject in the Bachelor of Education (Primary). It is designed for students with no prior knowledge of the Japanese language. It will introduce the syllabaries of Japanese, Hiragana and Katakana and survival language functions relevant to educational contexts. It will also survey current issues in Japanese education. It is divided into language seminars and Japanese studies lectures.  
Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve an elemental competency in reading and writing Japanese. 2. achieve a basic proficiency in listening and speaking Japanese. 3. demonstrate a basic understanding of the social context in which Japanese is spoken. 4. produce Japanese teaching materials for use in schools.  
JAPA103 Japanese Studies for Business Purposes  
6cp  
Contact Hours: 1hr lecture; 2hr practical per week.  
Pre-requisites: none  
Co-requisites: none  
Restrictions: none  
Exclusions: (JAPA101) or (JAPA102)  
Assessment: Language tests 70%, Assignments 20%, Participation 10%  
Subject Description: This subject is not part of the Japanese major, but is being offered as an elective subject in the Bachelor of Commerce. It is designed for students with no prior knowledge of the Japanese language. It will introduce the syllabaries of Japanese, Hiragana and Katakana and survival language functions relevant to commerce contexts. It will also survey current issues in Japanese business. It is divided into language seminars and Japanese studies lectures.  
Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve an elemental competency in reading and writing Japanese. 2. achieve a basic proficiency in listening and speaking Japanese. 3. demonstrate a basic understanding of the social context in which Japanese is spoken. 4. demonstrate an understanding of issues related to Japanese business matters.  
JAPA110 Japan and the Japanese  
6cp  
Contact Hours: 2 hours lecture, 1 hour practical per week.  
Pre-requisites: none  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Continuous assessment 90%; participation 10%  
Subject Description: This course familiarises students with Japan and some of the main issues that have influenced the formation of modern Japan. The approach in this subject is thematic, ranging from public to private spheres, from regional to national to international spheres, from studies of religion to studies of literature, art and film, concentrating, but not exclusively, on the past two centuries. Students will also be asked to consider some theoretical and abstract concepts such as Orientalism, Imperialism or the construction of national myths for example. These are concepts that will also be useful in other subjects across faculty.  
Subject Objectives: On successful completion of this subject, a student will be able to: 1. demonstrate an understanding and knowledge of various social issues concerning Japan. 2. have developed competencies in critical analysis of issues. 3. have developed written competencies through essays. 4. have developed oral skills through discussion.  
JAPA141 Beginners' Japanese I  
6cp  
Contact Hours: 6hrs lect/prac per week.  
Pre-requisites: none  
Co-requisites: none  
Restrictions: none  
Exclusions: JAPA151  
Assessment: Continuous assessment 90%; participation 10%  
Subject Description: Introduces the basics of Japanese language covering the pronunciation and the writing of the hiragana and katakana syllabaries and Chinese characters, as well as basic Japanese sentence construction. A situational approach will be used, with each lesson presenting students with increasingly complex situations.  
Subject Objectives: On successful completion of this subject, students will be able to: 1. achieve an elemental competency in reading and writing Japanese. 2. achieve a basic proficiency in listening and speaking Japanese. 3. demonstrate a basic understanding of contemporary Japan.  
JAPA142 Beginners' Japanese II  
6cp  
Contact Hours: 6 hours lect/prac per week.  
Pre-requisites: (JAPA151) or (JAPA141)  
Co-requisites: none  
Restrictions: none  
Exclusions: JAPA152  
Assessment: Continuous assessment 90%; participation 10%  
Subject Description: The program begun in JAPA151/JAPA141 is continued and expanded.
<table>
<thead>
<tr>
<th>Subject Description</th>
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<tbody>
<tr>
<td><strong>Subject Objectives:</strong> On successful completion of this subject, a student will be able to: 1. achieve a higher elementary competency in reading and writing Japanese. 2. achieve a higher elementary competency in listening and speaking Japanese. 3. demonstrate a basic understanding of contemporary Japan.</td>
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<tr>
<th>JAPA143 Beginners' Japanese III</th>
<th>8cp</th>
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<tr>
<td><strong>Subject Description:</strong> The program begun in JAPA151/JAPA141 and JAPA152/JAPA142 is continued and expanded.</td>
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<tr>
<td><strong>Subject Objectives:</strong> On successful completion of this subject, a student will be able to: 1. achieve a higher elementary competency in reading and writing Japanese. 2. achieve a higher elementary competency in listening and speaking Japanese. 3. demonstrate a basic understanding of contemporary Japan.</td>
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<tr>
<td><strong>Contact Hours:</strong> 3 hrs per week.</td>
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<tr>
<td><strong>Pre-requisites:</strong> (JAPA152) or (JAPA142)</td>
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<td><strong>Exclusions:</strong> (JAPA153) or (JAPA154)</td>
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<td><strong>Assessment:</strong> Continuous assessment 90%; participation 10%</td>
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<tr>
<th>JAPA161 Post HSC Japanese I</th>
<th>6cp</th>
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<tr>
<td><strong>Subject Description:</strong> Development of skills in speaking, listening to, reading and writing Japanese. Study of social context and aesthetic use of the language. Development of language study skills, computer skills and understanding of language in general.</td>
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<tr>
<td><strong>Subject Objectives:</strong> On successful completion of this subject, a student will be able to: 1. achieve a higher elementary competency in reading and writing Japanese. 2. achieve a higher elementary competency in listening and speaking Japanese. 3. demonstrate a basic understanding of contemporary Japan.</td>
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<tr>
<td><strong>Contact Hours:</strong> 3 hrs per week.</td>
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<tr>
<td><strong>Pre-requisites:</strong> (Pass in 2Unit/3Unit HSC equivalent).</td>
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<td><strong>Exclusions:</strong> none</td>
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<td><strong>Assessment:</strong> Continuous assessment 90%, participation 10%</td>
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<tr>
<th>JAPA162 Post HSC Japanese II</th>
<th>6cp</th>
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<tr>
<td><strong>Subject Description:</strong> The program for JAPA161 is expanded and developed.</td>
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<tr>
<td><strong>Subject Objectives:</strong> On successful completion of this subject, a student will be able to: 1. achieve a higher elementary competency in reading and writing Japanese. 2. achieve a higher elementary competency in listening and speaking Japanese. 3. demonstrate a basic understanding of contemporary Japan.</td>
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<td><strong>Contact Hours:</strong> 3 hrs per week.</td>
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<tr>
<td><strong>Pre-requisites:</strong> JAPA161</td>
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<td><strong>Exclusions:</strong> none</td>
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<tr>
<td><strong>Assessment:</strong> Continuous assessment 90%, participation 10%</td>
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<tr>
<th>JAPA261 Intermediate Japanese I</th>
<th>8cp</th>
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<tr>
<td><strong>Contact Hours:</strong> 5 hrs lecture/practical per week.</td>
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<tr>
<td><strong>Pre-requisites:</strong> (JAPA153) or (JAPA143) or (JAPA162) or (JAPA154)</td>
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<tr>
<td><strong>Assessment:</strong> Continuous assessment 90%; participation 10%</td>
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<tr>
<td><strong>Subject Description:</strong> The program begun in JAPA141/151/161 is continued and expanded.</td>
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<tr>
<td><strong>Subject Objectives:</strong> On successful completion of this subject, a student will be able to: 1. achieve a higher elementary competency in reading and writing Japanese. 2. achieve a higher elementary competency in listening and speaking Japanese. 3. demonstrate a basic understanding of contemporary Japan.</td>
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<th>JAPA262 Intermediate Japanese II</th>
<th>8cp</th>
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<tr>
<td><strong>Contact Hours:</strong> 6 hrs Lect/pract p/w.</td>
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<tr>
<td><strong>Pre-requisites:</strong> JAPA261</td>
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<td><strong>Exclusions:</strong> none</td>
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<tr>
<th>JAPA263 Intermediate Japanese III</th>
<th>12cp</th>
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<td><strong>Contact Hours:</strong> Subject not on offer in 2002.</td>
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<tr>
<td><strong>Pre-requisites:</strong> JAPA262</td>
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<td><strong>Exclusions:</strong> none</td>
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<th>JAPA264 Japanese IIC Language</th>
<th>12cp</th>
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<td><strong>Contact Hours:</strong> Subject not on offer in 2002.</td>
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<td><strong>Pre-requisites:</strong> JAPA262</td>
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<td><strong>Exclusions:</strong> none</td>
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<th>JAPA265 Japanese Advanced Language</th>
<th>12cp</th>
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<td><strong>Contact Hours:</strong> Subject not on offer in 2002.</td>
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<td><strong>Pre-requisites:</strong> JAPA262</td>
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<td><strong>Exclusions:</strong> none</td>
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<tr>
<th>JAPA266 Japanese Literature</th>
<th>12cp</th>
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<td><strong>Contact Hours:</strong> Subject not on offer in 2002.</td>
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<td><strong>Pre-requisites:</strong> JAPA262</td>
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<td><strong>Exclusions:</strong> none</td>
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Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve a higher elementary competency in reading and writing Japanese. 2. achieve a higher elementary competency in listening and speaking Japanese. 3. demonstrate a basic understanding of contemporary Japan.
Subject Objectives: This subject will introduce students to the study of the language of Japanese economics, and media using Japanese and English language materials.

Subject Description: This subject will further develop students' skills in speaking, listening to, reading and writing Japanese. The language will be studied in its social context. Computer skills and understanding of language in general will be developed further.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve a higher elementary competency in reading and writing Japanese. 2. achieve a higher elementary competency in listening and speaking Japanese. 3. demonstrate a basic understanding of contemporary Japan.

JAPA361 Advanced Japanese I 8cp

Contact Hours: 5 hrs lecture/practical per week.
Pre-requisites: (JAPA263) or (JAPA264)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments & tests 90%; classwork 10%

Subject Description: This subject will further develop students' skills in speaking, listening to, reading and writing Japanese. The language will be studied in its social context. Computer skills and understanding of language in general will be developed further.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve an advanced competency in reading, writing and comprehension of Japanese. 2. achieve an advanced proficiency in listening and comprehension of Japanese. 3. demonstrate the ability to express one's own opinion constructively and articulately in Japanese. 4. demonstrate an understanding and knowledge of various economic and social issues concerning contemporary Japan.

JAPA362 Advanced Japanese II 8cp

Contact Hours: 5 hrs lecture/practical per week.
Pre-requisites: (JAPA361)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments & tests 90%; classwork 10%

Subject Description: This subject will further develop students' skills in speaking, listening to, reading and writing Japanese. The language will be studied in its social context. Computer skills and understanding of language in general will be developed further.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve an advanced competency in reading, writing and comprehension of Japanese. 2. achieve an advanced proficiency in listening and comprehension of Japanese. 3. demonstrate the ability to express one's own opinion constructively and articulately in Japanese. 4. demonstrate an understanding and knowledge of various economic and social issues concerning contemporary Japan.

JAPA450 Japanese IV Honours 48cp

Contact Hours: Information unavailable.
Pre-requisites: (JAPA310 & JAPA362)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: continuous assessment 100%

Subject Description: A high credit performance or better is required for entry to JAPA450. Students will write an essay (10,000 words maximum) in English on a topic in Japanese studies to be approved by the Head of Program, and a project report (10,000 characters maximum) in Japanese on a topic to be approved by the Head of Program. They will also have classes on research methods in Japanese studies.

Subject Objectives: On completion of this subject, a student will be able to: 1. achieve a high level of written communication skills - in both Japanese and English. 2. demonstrate an ability for critical analysis. 3. achieve specialised knowledge in an area of Japanese studies.

JAPA550 Japanese Studies Abroad 48cp

Contact Hours: As required.
Pre-requisites: (JAPA310 and JAPA362)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Continuous assessment 50%; exit assessment 50%

Subject Description: This course involves the study for one full academic year at a Japanese University. Students who have no knowledge of the Japanese language will enter an elementary language. Those students with Japanese language skills will be placed into the host university's programme. In order to pass the subject, a 'pass' must be obtained in the final exit test (at the level appropriate to the student's entry point) upon return to Wollongong. Students successfully completing this subject will be awarded the Graduate Diploma of Arts (Japanese).

Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve an appropriate level of competency in reading and writing Japanese. 2. achieve an appropriate level of proficiency in listening and speaking Japanese. 3. demonstrate an understanding of contemporary Japan (social customs, current affairs etc). 4. demonstrate language development and cultural experience.

LANG110 An Introduction to Linguistics: The English Language 6cp

Contact Hours: 2 Lects, 1 Tut p/wk.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with ENGL130
Assessment: seminar papers and exercises 60%, 1 essay 40%

Subject Description: This subject introduces the discipline of linguistic theory and analysis as a means of exploring the nature of spoken and written language and its relationship to context. Through this subject, students should achieve a better
understanding of the role and nature of languages, and a greater ability to construct situationally appropriate texts.

Subject Objectives: On successful completion of this subject, a student will be able to: 
1. achieve a basic understanding of linguistic principles as applied to Systemic Functional Linguistics; 2. analyse the linguistic elements and their function in designated texts; 3. construct situationally appropriate texts.

LANG210 Communicating in a Foreign Language 8cp

Spring Wollongong On Campus
Contact Hours: 2 hrs lecture/practical per week.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tests, assignments, team work

Subject Description: This subject aims to provide language students with a better understanding of the process of Second Language Acquisition (SLA) and of bilingualism. We focus on the linguistic, socio-cultural and personal factors which affect SLA and discuss bilingualism as an individual and a societal phenomenon. This subject is compulsory for students majoring in a language or in ELS (English Language Studies).

Subject Objectives: On successful completion of this subject, a student will be able to: 
1. achieve a basic understanding of the principles of applied linguistics as applied to SLA, bilingualism and phonetics and phonology; 2. analyse socio-cultural factors impacting on linguistic use; 3. identify the stages in L1 & L2 learning/acquisition; 4. achieve a basic proficiency in phonetic analysis.

LANG305 Literature and Society in Renaissance Europe 8cp

Spring Wollongong On Campus
Contact Hours: 1 hr lecture, 2 hrs seminar.
Pre-requisites: 24 credit points
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: two essays, two quizzes, tutorial participation

Subject Description: The Renaissance constitutes a crucial period in Western civilisation. It saw a re-orientation of the arts and sciences which deeply influenced the course of European, and indeed world history. The subject will begin by examining the works of Dante Alighieri and will proceed to stress the contradictory nature of the Renaissance, concentrating on Italy and France. It will examine the literature (with works by Boccaccio, Petrarch, Machiavelli, Vasari, Rabelais, Montaigne, Ronsard, Du Bellay), art, and learning of the period, while exploring underlying social and political tensions.

Subject Objectives: Students should develop 
1. A knowledge of the manifestations of Renaissance thought in the literature, art and society of Italy and France. 
2. An ability to relate phenomena of the Italian and French Renaissance to a broader European framework. 
3. In-depth first-hand knowledge of specific authors and their major works, and awareness of the influence of those works on later movements. 
4. An understanding of the major linguistic developments of the period (revision, standardisation, refinement) and their relation to the arts, society and politics. 
5. A reasoned, personal, source-based response to one or more manifestations of Renaissance thought.

LANG371 Advanced Studies in Language/Culture A 8cp

Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 1 hr seminar, 2 hrs supervised work per week.
Pre-requisites: none
Co-requisites: none
Restrictions: Needs approval from Head of Program.
Exclusions: none
Assessment: set out in Subject Outline

Subject Description: This is a reading course offered under the direct supervision of a member of staff in the student's chosen area of specialisation in the Modern Languages Program. This subject provides an opportunity for upper level students in French, Italian, Japanese or English Language Studies to pursue a program of advanced work in approved areas of linguistic or cultural studies in the relevant language. For details of availability of topics offered, students should consult the Coordinator of their language strand. Entry to this subject is at the discretion of the Head of Program.

Subject Objectives: On successful completion of this subject, a student will be able to: 
1. achieve advanced knowledge and proficiency in the defined area of study; 
2. achieve advanced competency in some or all of the macro-skills in the relevant language; 
3. develop research skills related to the defined topic.

LANG372 Advanced Studies in Language/Culture B 8cp

Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 1hr seminar, 2 hrs supervised work per week.
Pre-requisites: none
Co-requisites: none
Restrictions: Needs approval of Head of Program
Exclusions: none
Assessment: set out in Subject Outline

Subject Description: This is a reading course offered under the direct supervision of a member of staff in the student's chosen area of specialisation in the Modern Languages Program. It subject provides an opportunity for upper level students in French, Italian, Japanese or English Language Studies to pursue a program of advanced work in approved areas of linguistic or cultural studies in the relevant language. For details of availability of topics offered, students should consult the Coordinator of their language strand. Entry to this subject is at the discretion of the Head of Program.

Subject Objectives: On successful completion of this subject, a student will be able to: 
1. achieve advanced knowledge and proficiency in the defined area of study; 
2. achieve advanced competency in some or all of the macro-skills in the relevant language; 
3. develop research skills related to the defined topic.

LANG373 Advanced Studies in Language/Culture C 8cp

Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: 1 hr seminar and 2hrs supervised work per week.
Pre-requisites: none
Co-requisites: none
Restrictions: Needs approval from Head of Program
Exclusions: none
PHIL102  Body, Mind and Persons A    6cp
Spring  Wollongong  On Campus
Contact Hours: 2 hr lecture, 1 hr tutorial per week.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (PHIL202) or (PHIL103) or (PHIL203)
Assessment: Essay (40%); examination (40%); tutorial (20%)

Subject Description: Body, Mind and Persons is an introduction to some central philosophical issues concerning persons and their place in the world. Topics covered are from the following major areas: 1. Mind and Body. We begin by asking why philosophers have been concerned with the status of the mind. This section then offers a critical examination of some philosophers' accounts of the nature of the human mind and the relationship between our minds and our bodies. 2. Matters of the Self, Life and Death. This section explores a range of issues relating to the value of our lives as persons. We ask such questions as: can anyone knowingly and willingly do wrong? what is the relationship between living the good life and living the moral life? what consequences does determinism have for the way we regard and react to others? what is evilness/goodness or beauty/ugliness of character or soul? what is the relation between our sexualtiy and our personhood? can we make a principled distinction between good and bad sex? is our death something bad for us? These questions will relate to issues which have come up elsewhere in the subject.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate, orally and in writing, acquaintance with some of the main figures, issues, and schools of thought associated with the philosophy of mind and the philosophical discussion of qualitative aspects of personhood. 2. Research, produce, and reference an essay in some or all of the macro-skills in the relevant language; 3. develop research skills related to the defined topic.

Assessment: information unavailable

Subject Description: Subjects for this course will be chosen in consultation with the Head of Program from those available in FREN and ITAL 450 (a), (b), (c), (d) and (f). Students will also write an essay of approximately 10,000 words on a topic in French or Italian literature, linguistics, history, civilisation and culture, or on a comparative topic. Students will take five subjects in all, normally three in the first session and two (including the long essay) in the second. The five subjects will comprise either three subjects chosen from FREN and ITAL 450 (a), (b), (c) and (d), together with the essay (e), and one subject from FREN and ITAL 450 (f), or two subjects chosen from FREN and ITAL 450 (a), (b), (c) and (d), together with the essay (e), and two subjects from FREN and ITAL (f). Honours Subjects: (a) Literary theory, (b) Historical research, (c) Civilisation, (d) Introduction to linguistic research, (e) Special subject, (f) Contextual study - One or two 300-level subjects not already taken.

Subject Objectives: information unavailable

PHIL112 Logic A    6cp
Spring  Wollongong  On Campus
Contact Hours: 2 hr lecture, 1 hr practical per week.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (PHIL153) or (PHIL216) or (PHIL253) or (MATH2230)
Assessment: Class tests (40%); examination (60%)

Subject Description: An introduction to formal logic covering (i) the representation of arguments in English in the symbolic languages of propositional logic and predicate logic; (ii) the use of tables as a method of testing for validity within propositional logic; and (iii) formal proof as a method of establishing validity within both propositional logic and predicate logic.

Subject Objectives: On successful completion of this subject, students will be able to, 1. demonstrate understanding of the distinctive features of such debate. 4. Demonstrate, orally and in writing, an appreciation of the emphasis placed in Philosophy on the value of argument and the role of reasons.

PHIL425 Combined French and Italian Honours48cp
Annual  Wollongong  On Campus
Spring 2002/ Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable

Subject Description: A reading course offered under the direct supervision of a member of staff in the student's chosen area of specialisation in the Modern Languages Program. This subject provides an opportunity for upper level students in French, Italian, Japanese or English Language Studies to pursue a program of advanced work in approved areas of linguistic or cultural studies in the relevant language. For details of availability of topics offered, students should consult the Coordinator of their language strand. Entry to this subject is at the discretion of the Head of Program.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. achieve advanced knowledge and proficiency in the defined area of study; 2. achieve advanced competency in some or all of the macro-skills in the relevant language; 3. develop research skills related to the defined topic.

LANG425 6cp
Subject Descriptions

predicate logic, 3. construct proofs of validity in classical propositional logic and classical predicate logic

PHIL151 Practical Reasoning A 6cp
Autumn Moss Vale Flexible
Autumn Wollongong Flexible
Autumn Shoalhaven Flexible
Autumn Bega Education Flexible
Autumn Batemans Bay Flexible

Contact Hours: Wollongong - 2 hr lecture, 1 hr practical per week; Other - 3hrs lect/prac per week.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (PHIL153) or (PHIL253) or (PHIL214)
Assessment: Class tests (40%); examination (60%)

Subject Description: An introduction to the informal study of reasoning designed to improve the ability to organise and analyse bodies of information clearly, systematically and critically regardless of the student's area of specialisation. Topics include inductive and deductive reasoning; distinguishing good from bad arguments; meaning and definition; common fallacies and dirty debating tricks; complex problem solving and scientific method.

Subject Objectives: information unavailable

PHIL201 Knowledge, World and Values B 6cp
Autumn Wollongong On Campus

Contact Hours: 2 hr lecture, 1 hr tutorial per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: (PHIL101) or (PHIL103) or (PHIL203)
Assessment: Essay (40%); examination (40%); tutorial (20%)

Subject Description: Exploration of 1. scepticism and theories of justification of belief 2. theories of the self and its identity through time 3. issues relating to realism and idealism 4. the nature of moral values; cultural relativism; the subjectivity/objectivity of values; self-interest and morality 5. the justification of political institutions; rights and authority; the obligation to obey the state; equality and justice; law and morality. 6. Introduction to philosophical skills and approach.

Subject Objectives: Upon successful completion of this subject students will have developed familiarity with some of the central issues, text and authors in the theory of knowledge, moral philosophy and political philosophy. Students will also have developed an understanding of the nature of philosophical approaches to the issues covered and will have developed skills in argumentation, reading and writing in philosophy.

PHIL202 Body, Mind and Persons B 6cp
Spring Wollongong On Campus

Contact Hours: 2 hr lecture, 1 hr tutorial per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: (PHIL102) or (PHIL103) or (PHIL203)
Assessment: Essay (40%); examination (40%); tutorial (20%)

Subject Description: Body, Mind and Persons is an introduction to some central philosophical issues concerning persons and their place in the world. Topics covered are from the following major areas: 1. Mind and Body. We begin by asking why philosophers have been concerned with the status of the mind. This section then offers a critical examination of some philosophers accounts of the nature of the human mind and the relationship between our minds and our bodies. 2. Matters of the Self, Life and Death. This section explores a range of issues relating to the value of our lives as persons. We ask such questions as: can anyone knowingly and willingly do wrong? what is the relationship between living the good life and living the moral life? what consequences does determinism have for the way we regard and react to others? what is evilness/goodness or beauty/ugliness of character or soul? what is the relationship between our sexuality and our personhood? can we make a principled distinction between good and bad sex? is our death something bad for us? These questions will relate to issues which have come up elsewhere in the subject.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate, orally and in writing, acquaintance with some of the main figures, issues, and schools of thought associated with the philosophy of mind and the philosophical discussion of qualitative aspects of personhood. 2. Research, produce, and reference an essay in a format appropriate for a Philosophy essay. 3. Engage in Philosophical debate while demonstrating a basic understanding of the distinctive features of such debate. 4. Demonstrate, orally and in writing, an appreciation of the emphasis placed in Philosophy on the value of argument and the role of reasons.

PHIL206 Practical Ethics 8cp
Autumn Wollongong On Campus

Contact Hours: 3hrs lecture/seminar per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essays 80% (or essay 40% and exam 40%); seminar 20%

Subject Description: A systematic study of a range of ethical problems facing contemporary western society. A major objective of this subject will be to identify the theoretical assumptions behind particular moral viewpoints. Topics will include a selection of the following: privacy; pornography and censorship; prejudice and discrimination; capital punishment; sexual ethics; sexual harassment; rape; war; abortion; infanticide; suicide; genetic engineering.

Subject Objectives: information unavailable

PHIL211 Greek Philosophy 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essays 80% (or essay 40% and exam 40%); seminar 20%

Subject Description: Introduces philosophy by way of one of the great classics of Western literature, Plato's The Republic. Involves an exposition and critical assessment of Plato's theory of the just state, the just person and justice for women, the nature of knowledge, the aims of education, the best sort of government and the proper roles of artists and philosophers in society. No prior knowledge of philosophy or ancient history is required.

Subject Objectives: information unavailable.
PHIL214 Practical Reasoning B 8cp  
Autumn  Wollongong  On Campus  
Contact Hours: 2 hr lecture, 1 hr practical per week.  
Pre-requisites: At least 18 cp, not necessarily in Philosophy  
Co-requisites: none  
Restrictions: none  
Exclusions: (PHIL151) or (PHIL153) or (PHIL253)  
Assessment: Class tests (40%); examination (60%)  
Subject Description: An introduction to the informal study of reasoning designed to improve the ability to organise and analyse bodies of information clearly, systematically and critically regardless of the student's area of specialisation. Topics include inductive and deductive reasoning; distinguishing good from bad arguments; meaning and definition; common fallacies and dirty debating tricks; complex problem solving and scientific method.  
Subject Objectives: information unavailable  
PHIL215 Philosophy of the Arts 8cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: At least 18 cp, not necessarily in Philosophy  
Co-requisites: none  
Restrictions: none  
Exclusions: (PHIL202) or (PHIL252) or (PHIL254) or (PHIL354)  
Assessment: Essays 80% (or essay 40% and exam 40%); seminar 20%  
Subject Description: An examination at an advanced level of central issues in the philosophy of art, such as: What distinguishes art and aesthetic objects from other kinds of objects? What is the art object, eg is Beethoven's Ninth Symphony the manuscript, the published scores, the set of performances, or what? What does art have to do with truth, fantasy, make-believe, imagination or emotion? How do we interpret works of art? Are such interpretations arbitrary, subjective, objective, relative? Does art have any political role or a social value? Examples of different types of art, such as music, literature, film, painting, sculpture and architecture, will be used in attempting answers to these questions.  
Subject Objectives: information unavailable  
PHIL216 Logic B 8cp  
Spring  Wollongong  On Campus  
Contact Hours: 2 hr lecture, 1 hr practical per week.  
Pre-requisites: At least 18 cp, not necessarily in Philosophy  
Co-requisites: none  
Restrictions: none  
Exclusions: (PHIL112) or (PHIL153) or (PHIL253) or (MATH223)  
Assessment: Class tests (40%); examination (60%)  
Subject Description: An introduction to formal logic covering (i) the representation of arguments in English in the symbolic languages of propositional logic and predicate logic; (ii) the use of tables as a method of testing for validity within propositional logic; and (iii) formal proof as a method of establishing validity within both propositional logic and predicate logic.  
Subject Objectives: On successful completion of this subject, students will be able to: 1. demonstrate understanding of the basic principles of deductive logic, 2. translate between ordinary language and classical propositional and classical predicate logic, 3. construct proofs of validity in classical propositional logic and classical predicate logic  
PHIL231 Formal Logic A 8cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: (PHIL112) or (PHIL216)  
Co-requisites: none  
Restrictions: none  
Exclusions: (PHIL361) or (MATH223)  
Assessment: Class tests (40%); examination (60%)  
Subject Description: Provides a grounding in the fundamental concepts of modern formal logic. Main topics are (i) set theory and relations; (ii) semantic theory for propositional and predicate logic; (iii) formal proof procedures for propositional and predicate logic; and (iv) proof of the soundness and completeness of propositional logic.  
Subject Objectives: information unavailable  
PHIL232 Political Philosophy A 8cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: At least 18 cp, not necessarily in Philosophy  
Co-requisites: none  
Restrictions: none  
Exclusions: (PHIL332) or (PHIL257) or (PHIL357) or (POL214) or (POL314) or (PHIL383)  
Assessment: Essays 80% (or essay 40% and exam 40%); seminar 20%  
Subject Description: Examines classical conservative, liberal, and radical political theorists, such as Plato, Aristotle, Hobbes, Locke, Bentham, Rousseau, Wolstonecraft and Marx. Topics discussed include: the nature of the state; political obligation and authority; liberty, equality and justice; democracy; human rights and human nature; morality and politics; alienation, oppression and revolution.  
Subject Objectives: On successful completion of this subject a student will be able to: 1. Critically discuss the major figures in the history of political philosophy and identify the impact of their theories in contemporary debates. 2. Identify the broader philosophical significance of debates within political philosophy. 3. Identify the philosophical presuppositions and implications of terms such as political obligation, autonomy, and alienation. 4. Engage in critical debate about fundamental concepts in political theory. 5. Identify normative bases of major political theories.  
PHIL255 Interpretation and Communication 8cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: At least 18 cp, not necessarily in Philosophy  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Essays 80% (or essay 40% and exam 40%); seminar 20%  
Subject Description: In this subject we examine issues in the philosophy of language, with emphasis on theories of interpretation and communication. The subject considers both analytic and contemporary European traditions, with the focus varying from year to year. Issues considered include: 1. theories of meaning, and meaning scepticism (what is meaning?, is it determinate?); 2. radical interpretation; 3. arguments regarding indeterminacy of interpretation or translation; 4. speech act theory and theories of communication; 5. the nature of literary meaning; 6. the concepts of 'author', 'text', and 'work'; 7. the significance of metaphor and other tropes. There will be special emphasis on close readings of central texts.  
Subject Objectives: Upon successful completion of this subject, students will be able to: 1. Demonstrate familiarity with
Subject Objectives:

Some central issues in philosophy of language, and debates surrounding those issues; 2. Demonstrate facility with close reading of philosophical texts; 3. Demonstrate a developed ability to reason and write in philosophy.

PHIL256 Ethics and the Environment A 6cp
Autumn Wollongong On Campus
Contact Hours: 2 hr lecture, 1 hr tutorial per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: PHIL258
Assessment: Essay (30%); tutorial (10%); examination (60%)
Subject Description: A study of evaluative issues concerning the environment. Provides a grounding in debates about, for example, our obligations to non-human animals; whether wilderness areas have value independently of their value to humans; the problem of overpopulation and the question of our obligations to the 3rd world and to future generations; the value of biodiversity. This subject can also be taken as an 8 credit point subject, PHIL258, which shares lectures and tutorials, but has different assessment, reflecting the extra 2 credit points.
Subject Objectives: Information unavailable

PHIL258 Ethics and the Environment B 8cp
Autumn Wollongong On Campus
Contact Hours: 2 hr lecture, 1 hr tutorial per week.
Pre-requisites: At least 18 credit points, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: (PHIL256)
Assessment: Essay (30%); exam (60%); seminar (10%)
Subject Description: A study of evaluative issues concerning the environment. Provides a grounding in debates about, for example, our obligation to non-human animals; whether wilderness areas have value independently of their value to humans; the problem of overpopulation and the question of our obligation to the 3rd world and to future generations; the value of biodiversity. This subject can also be taken as an 8 credit point subject, PHIL258, which shares lectures and tutorials, but has different assessment, reflecting the extra 2 credit points.
Subject Objectives: Information unavailable

PHIL260 Philosophy of Feminism A 8cp
Autumn Wollongong On Campus
Contact Hours: 3 hr lecture/seminar per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: PHIL363
Assessment: Essay 80% (or essay 40% and exam 40%); seminar 20%
Subject Description: Introduction to feminist philosophy, examining the relationships between feminism and philosophy. Explores analytical and ethical issues which arise in feminist philosophy and the ways these issues divide feminists, through exploration of concepts such as: sex and gender difference, equality, justice, oppression, affect, exploitation and human nature as they occur in feminist theories.
Subject Objectives: Information unavailable

PHIL262 Theories of Knowledge and Metaphysics A 8cp
Spring Wollongong On Campus
Contact Hours: 3 hr lecture/seminar per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: PHIL322
Assessment: Essays 80% (or essay 40% and exam 40%); seminar 20%
Subject Description: An examination of attempts to answer the central questions in the theory of knowledge and of the metaphysical implications of those attempts. The questions addressed include: What is knowledge? Is knowledge possible? (the challenge of scepticism); Is knowledge different from information? Is a normative epistemology possible or desirable? We will discuss, eg debates over internalism and externalism, realism and anti-realism, descriptive and revisionary metaphysics.
Subject Objectives: Information unavailable

PHIL270 Philosophy of Law 8cp
Spring Wollongong On Campus
Contact Hours: 3 hr lecture/seminar per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: LLB312
Assessment: Essays 80% (or essay 40% and exam 40%); seminar 20%
Subject Description: Introduction to philosophical issues in law. Topics will include a selection of the following: morality and the law; the harm principle; legal paternalism; rights and obligations; conscience and the law; the justification of punishment; conceptual and moral problems in legal decision-making (e.g. "wrongful life" cases, and arguments for a legal duty of active aid).
Subject Objectives: Information unavailable

PHIL271 Special Philosophical Questions A 8cp
Spring Wollongong On Campus
Contact Hours: 3 hr lecture/discussion per week.
Pre-requisites: Approval of Head of Program
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essays 80% (or essay 40% and exam 40%); seminar 20%
Subject Description: A detailed, supervised investigation of an approved philosophical topic, author, period, or school of thought.
Subject Objectives: Information unavailable

PHIL284 Ethics A 8cp
Spring Wollongong On Campus
Contact Hours: 3 hr lecture/seminar per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: (PHIL301)
Assessment: Essay 80% (or essay 40% and exam 40%); seminar 20%

Subject Description: A critical survey of contemporary philosophical theories about the nature of social science. Examines the naturalistic, interpretive, critical and postmodernist schools. This survey is animated by sceptical concerns regarding the very possibility of a social science, and of even the possibility of determinately interpreting each other. An underlying thematic focus will be the question of intercultural understanding, the significance of cultural relativism, and the possibility of multiculturalism.

Subject Objectives: On completion of this subject, students will demonstrate (1) understanding of the nature of the major contemporary schools in the Philosophy of Social Science, (2) an ability, through critical evaluation, to determine the strengths and weaknesses of these schools, and (3) an appreciation of the peculiar difficulties facing those who would develop a science of humans as social creatures.

PHIL288 Philosophy of Mind and Action A 8cp
Autumn Wollongong On Campus
Contact Hours: 3 hr lecture/seminar per week.
Pre-requisites: At least 18 cp, not necessarily in Philosophy
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay 80% (or essay 40% and exam 40%); seminar 20%

Subject Description: Examines contemporary issues in one or more of the following areas: metaphysics of mind (dualism, mind-body identity, functionalism, etc.); theories of intention and agency; explanations of irrationality (such as divided mind accounts of self-deception and weakness of will); theories of emotion (its nature, epistemology and role in moral psychology); self-knowledge and first-person authority.

Subject Objectives: information unavailable

PHIL301 Ethics B 8cp
Spring Wollongong On Campus
Contact Hours: 3 hr lecture/seminar per week.
Pre-requisites: (At least 16 cp in PHIL at 200-level or 300-level)
Co-requisites: none
Restrictions: none
Exclusions: (PHIL251) or (PHIL284)
Assessment: Essays 80% (or essay 40% and exam 40%)

Subject Description: A critical study at an advanced level of fundamental issues in moral philosophy. Among the topics discussed will be a selection of the following: Moral relativism; subjectivist and objectivist theories of morality; facts and values; moral realism; consequentialism; moral motivation; egoism and altruism; morality and rationality.

Subject Objectives: information unavailable

PHIL305 Special Philosophical Questions B 8cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 3 hr lecture/discussion per week.
Pre-requisites: Approval of Head of Program
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essays 100% (or an equivalent approved combination of essay(s) and exam(s) and seminar)

Subject Description: A detailed, supervised investigation at an advanced level of an approved philosophical topic, author, period, or school of thought.

Subject Objectives: information unavailable

PHIL322 Theories of Knowledge and Metaphysics B 8cp
Spring Wollongong On Campus
Contact Hours: 3 hr lecture/seminar per week.
Pre-requisites: (At least 16 cp in PHIL at 200-level or 300-level)
Co-requisites: none
Restrictions: none
Exclusions: (PHIL262)
Assessment: Essays 80% (or essay 40% and exam 40%)

Subject Description: A critical study at an advanced level of fundamental issues in moral philosophy. Among the topics discussed will be a selection of the following: Moral relativism; subjectivist and objectivist theories of morality; facts and values; moral realism; consequentialism; moral motivation; egoism and altruism; morality and rationality.

Subject Objectives: information unavailable
**PHIL361  Formal Logic B  8cp**  
**Contact Hours:** Subject not on offer in 2002.  
**Pre-requisites:** (16 cp at 200-level and PHIL112) or (16 cp at 200-level and PHIL216)  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** (PHIL231) or (MATH223)  
**Assessment:** Class tests (40%); examination (60%)  
**Subject Description:** Provides an advanced grounding in the fundamental concepts of modern formal logic. Main topics are (i) set theory and relations; (ii) semantic theory for propositional and predicate logic; (iii) formal proof procedures for propositional and predicate logic; and (iv) proof of the soundness and completeness of propositional logic.  
**Subject Objectives:** information unavailable.

**PHIL363  Philosophy of Feminism B  8cp**  
**Autumn**  
**Contact Hours:** 3 hr lecture/seminar per week.  
**Pre-requisites:** (At least 16 credit points in Philosophy at 200-level or 300-level)  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** (PHIL260)  
**Assessment:** Essay 80% (or essay 40% and exam 40%); seminar 20%  
**Subject Description:** Introduction to feminist philosophy, examining the relationships between feminism and philosophy. Explores analytical and ethical issues which arise in feminist philosophy and the ways these issues divide feminists, through exploration of concepts such as: sex and gender difference, equality, justice, oppression, affect, exploitation and human nature as they occur in feminist theories.  
**Subject Objectives:** information unavailable.

**PHIL370  Topics in Philosophy of Law  8cp**  
**Contact Hours:** Subject not on offer in 2002.  
**Pre-requisites:** (At least 8 cp in Philosophy at 200-level or 300-level)  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Essays 80% (or essay 40% and exam 40%); seminar 20%  
**Subject Description:** Advanced study of central issues in the philosophy of law. Topics will include a selection of the following: the nature and justification of law; agent responsibility; action, intention, will, negligence; collective responsibility; moral and legal evaluation; justification and excuse; the justification of criminal defences, e.g. provocation, necessity, duress, self-defence, insanity.  
**Subject Objectives:** information unavailable.

**PHIL380  Bioethics  8cp**  
**Spring**  
**Contact Hours:** 2hrs lecture, 1hr tutorial per week.  
**Pre-requisites:** (At least 16 cp at 200-level or 300-level)  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** (PHIL365)  
**Assessment:** Essays 80% (or essay 40% and exam 40%); seminar 20%  
**Subject Description:** Philosophical examination of a range of bioethical problems. Topics will include: euthanasia and physician-assisted suicide; reproduction technology (e.g. IVF, cloning); anonymous donor programs; genetic counselling, screening and testing; surrogacy; allocation of health resources; organ transplantation; embryo and fetal research; experimentation involving human subjects; research involving animals; the role of ethics committees; the nature of professional ethics.  
**Subject Objectives:** information unavailable.

**PHIL383  Political Philosophy B  8cp**  
**Contact Hours:** Subject not on offer in 2002.  
**Pre-requisites:** (At least 16 cp of Philosophy at 200-level or 300-level)  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** (PHIL232)  
**Assessment:** Essays 80% (or essay 40% and exam 40%); seminar 20%  
**Subject Description:** Examines classical conservative, liberal, and radical political theorists, such as Plato, Aristotle, Hobbes, Locke, Bentham, Rousseau, Wolstonecraft and Marx. Topics discussed include: the nature of the state; obligation and authority; liberty, equality and justice; democracy; human rights and human nature; morality and politics; alienation, oppression and revolution.  
**Subject Objectives:** On successful completion of this subject a student will be able to: 1. Critically discuss the major figures in the history of political philosophy and identify the impact of their theories in contemporary debates. 2. Identify the broader philosophical significance of debates within political philosophy. 3. Identify the philosophical presuppositions and implications of terms such as political obligation, autonomy, and alienation. 4. Engage in critical debate about fundamental concepts in political theory. 5. Identify normative bases of major political theories.

**PHIL390  Contemporary Political Philosophy  8cp**  
**Contact Hours:** Subject not on offer in 2002.  
**Pre-requisites:** (At least 16 cp in PHIL at 200-level at 300-level)  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Essay 80% (or essay 40% and exam 40%); seminar 20%  
**Subject Description:** Examines classical conservative, liberal, and radical political theorists, such as Plato, Aristotle, Hobbes, Locke, Bentham, Rousseau, Wolstonecraft and Marx. Topics discussed include: the nature of the state; obligation and authority; liberty, equality and justice; democracy; human rights and human nature; morality and politics; alienation, oppression and revolution.  
**Subject Objectives:** On successful completion of this subject a student will be able to: 1. Critically discuss the major figures in the history of political philosophy and identify the impact of their theories in contemporary debates. 2. Identify the broader philosophical significance of debates within political philosophy. 3. Identify the philosophical presuppositions and implications of terms such as political obligation, autonomy, and alienation. 4. Engage in critical debate about fundamental concepts in political theory. 5. Identify normative bases of major political theories.

**PHIL403  Philosophy Honours  48cp**  
**Annual**  
**Spring 2002/  
**Autumn 2003**  
**Contact Hours:** Information unavailable.

**Pre-requisites:** Entry to the Honours year or Honours subjects shall be determined on the advice of the Head of Program  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none
Assessment: Thesis (40%); 3 Electives (60%)

Subject Description: 1. Thesis: Candidates shall present a thesis, normally of 12,000 words. 2. Electives: Candidates must choose three electives from the list of available electives in any particular year, in consultation with the Head of Program. Candidates will be required to choose at least two electives that do not strongly overlap in content. 3. Seminars: Candidates are expected to attend the Philosophy Seminar Program. Seminars are regularly held on Friday afternoons.

Subject Objectives: information unavailable

PHIL413 Combined Philosophy Honours 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: Entry to combined Honours shall be determined on the advice of the Programs concerned
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: The combined Honours course will consist of a program of study approved by the Head of the Philosophy Program in collaboration with the Head of the other Program concerned. The program will normally be composed of elements offered at 400 level by the two Programs, including a thesis.

Subject Objectives: information unavailable

POL111 Australian Politics 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hours lectures & tutorials.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Analytical media exercise 20%; essay 40%; examination 30%; tutorial participation 10%

Subject Description: This subject introduces students to the functions and operations of the basic institutions of politics (the parliament, constitution, cabinet, bureaucracy and High Court) in Australia, some of the ideas (democracy, liberalism, conservatism, social democracy, feminism), that are important in Australian political life, and some of the factors (political parties, gender, the media) that help to shape Australian political life. Students will be expected to understand what these institutions, ideas and practices actually contribute to Australian government and politics and what functions and roles they are supposed to do perform.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. have a basic understanding of the following: The main functions which are performed by the houses of parliament, the cabinet, the public service, the Governor General, the constitution, the federal system, and the High Court. 2. give an account of and be able to analyse some of the important political ideas that shape Australian politics including liberalism, conservatism, democracy, social democracy, feminism and you should be able to give an account of the fundamental principles underlying these different political ideas. 3. give an account of and be able to analyse some of the the factors that influence Australian political life including political parties, gender, interest groups, the media.

POL121 Politics in a Globalising World 6cp
Spring Wollongong On Campus
Contact Hours: 3 hours lectures & tutorials.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial Paper: 20% of final grade; Essay: 30% of final grade; Exam (3hr) 30% of final grade; Journal 20% of final grade

Subject Description: The subject examines the impact of Globalisation on Australian politics and in international relations generally. Australia's role in the Asia Pacific Region is analysed and the causes of the Asian economic and financial crisis examined. Developments within the Triad of rich countries and key theories of globalisation are critically assessed. Special attention is paid to world poverty, migration, labour relations, race and ethnicity in world politics. The collapse of communism and the problems of democratic transition are analysed. Finally the implications of globalisation for democracy and social justice are examined.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Gather a wide range of political information using electronic and archival means, 2) read and understand data and a diverse range of literature, 3) analyse policies for their impact on developed and developing countries, 4) demonstrate a basic understanding of cultural differences, 5) develop critical skills in media analysis and 6) analyse the impact of globalisation on democratic values and justice in the world.

POL141 Change and Debate in Contemporary Australian Politics 6cp
Spring Wollongong On Campus
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 5,000 words in essays.

Subject Description: Examines some of the major changes that have occurred in the Australian political culture since 1980, and reactions and responses to those changes. Topics covered included the new individualism and the resurgence of liberalism, cultural diversity and multiculturalism, de-regulation and privatisation, the 'clever country', economic rationalism, and republicanism. Relevant debates in the public culture are identified and the major arguments analysed. Emphasis is placed on the political and cultural significance of these debates.

Subject Objectives: information unavailable.

POL211 Democracy in Theory and Practice 8cp
Spring Wollongong On Campus
Contact Hours: 1 hour lecture, 2 hour tutorial.
Pre-requisites: (6cp of POL) or (6cp of HIST) or (6cp of PHIL) or (6cp of SOC)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial Paper 20% of Final grade; Essay 2000 words 40% of Final grade; Examination (containing seen and unseen questions) 30% of Final grade; Participation 10% of Final grade
Subject Description: The subject analyses and contrasts the development of two western traditions: democracy and republicanism. It examines their origins in Ancient Greece and Rome, the rise of different schools of liberalism, participatory and deliberative democracy, conservatism, pluralism, social democracy and European and Leninist Marxism. Contemporary critiques of Western democratic theory from feminist, neo Marxist, neo liberal, conservative, post modern and technocratic/industrialist scholars are analysed and their suggested alternatives are examined. The subject examines not only the quality and coherence of the ideas expressed by respective thinkers but their practical implications and feasibility.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Express an overall knowledge of the main developments in western democratic theory. 2) Demonstrate an understanding of the major differences between ancient and modern democratic and republican theory. 3) Be able to articulate the relationship of democracy to values such as liberty, community, equality and justice. 4) Analyse competing political ideas. 5) Assess the feasibility and desirability of political programs and their practical implications.

POL216 Politics in the USA 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (6cp of POL)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay 40%; Journal 30%; Exam 30%

Subject Description: This subject examines the American political system. It provides an introduction to the institutional context of American politics, focussing upon the structure and function of government, and also deals in depth with major factors and issues which shape politics today. The roles, in theory and practice, of the Constitution, the President, the Congress, the Supreme Court are examined. Political parties, election processes and campaigns are surveyed and analysed. These institutional aspects of American politics raise crucial questions about democracy and power, questions which the subject deals with at length. Other areas of enquiry include the mass media and political culture generally, federalism and bureaucratic, and racial and class divisions. Attention is also paid to ideology and the making of public policy.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Demonstrate a clear knowledge of the workings of the American political system. 2) Analyse critically the key institutional features of American politics. 3) Identify crucial issues which have significance on both a domestic and international level.

POL222 Australian Public Policy 8cp
Contact Hours: 1 hour lecture, 2 hour tutorial.
Pre-requisites: (6cp of POL) or (AUST101) or (HIST121)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial Paper 20% of final grade; Research paper 1500 words 40% of final grade; Exam (3hr) 30% of final grade; Class Participation 10% of final grade

Subject Description: The subject examines the formation and administration of Public Policy in Australia in a comparative framework, with special emphasis on comparisons with other advanced industrial societies. It examines areas such as: the impact of globalisation, and specific policy areas health, housing, transport, industry, policing, equal opportunities, social inequalities, urban and rural/regional problems and the environment. Legislative processes and outcomes are analysed and the influence of pressure groups/ corporations on government is critically examined. Students will be introduced to a range of theories of the Australian state, corporatism and globalisation.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Gather information using electronic and archival means, 2) read and understand statistical information, 3) analyse policies, 4) demonstrate a basic understanding of policy processes and state theories, 5) appreciate the multi cultural diversity of Australia and 6) analyse the importance of the goals of social justice and inclusion in policy formulation.

POL224 Politics and the Media 8cp
Spring Wollongong On Campus
Contact Hours: Three hours per week.
Pre-requisites: (6cp of POL) or (6cp of CCS)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay 40%; tutorial paper 30%; examination 30%

Subject Description: This subject examines the political role and power of the mass media. Particular attention is paid to the manufacture of news, the construction of news frames, the function of agenda-setting, the issue of bias, the use and abuse of media by politicians, the question of ownership and control, the role of advertising. While the major focus is on news reporting and commentary, cultural politics in general (including popular culture) is examined.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Demonstrate a clear knowledge of the workings of the media in both a local and international context. 2) Analyse critically newspaper articles and television programmes (both news/documentary and entertainment). 3) Be aware of the many debates about the nature and role of mass culture.

POL225 International Relations: An Introduction 8cp
Autumn Wollongong On Campus
Contact Hours: 3 hours per week lectures and tutorials.
Pre-requisites: (6cp of POL)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial paper 20%; essay 40%; exam 30%; tutorial participation 10%

Subject Description: Provides an introduction to the study of International Relations. Its focus is on concepts, issues and theories of particular contemporary relevance: Realism, Idealism, feminist perspectives, dependency and interdependence, globalism, etc. Close critical attention is paid to the New World Order, the United Nations, security and other global and regional regimes, international relations in the Asia-Pacific region, including Asia-Pacific co-operation, and the development of Australia's foreign relations, including Australian Government foreign policy.

Subject Objectives: information unavailable
POL226 Australian Political Thought 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: (6cp of POL) or (AUST101) or (HIST121)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Group Project - poster, oral presentation, written presentation 30%; Essay 30%; Short paper 20%; Participation - email 10%, tutorial 10%

Subject Description: This subject examines the constitution of gendered subjectivity, especially femininity, in industrialised societies. Key feminist concerns are addressed through the analysis of recent Australian publications about women focussing on paid work, family life, legal processes, sexuality and popular media. The role of the liberal democratic state in the regulation of gender relations is explored. Team work forms the core of student learning with discussion and project groups nearly every week.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Explain gender difference, embodiment, social reproduction and related concepts in terms of the workforce, the home and popular culture. 2. Understand the social production of subjectivity through experiences of race/ethnicity, class, gender and sexuality. 3. Write critically about a specific argument in the literature. 4. Learn through team work.

POL230 Latin America: The Politics of Conquest and Colonisation 8cp

Spring Wollongong On Campus

Contact Hours: 3 hrs per week.

Pre-requisites: (6cp of POL) or (6cp of HIST)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 1 x 1,000 word tutorial paper 20%; 2 x 2,000 word essays 70%; class participation 10%

Subject Description: This subject provides an overview of the conquest and colonisation of Latin America by the West. Columbus did not "discover" America. Many millions lived there before the arrival of Europeans. Indeed the Aztec capital - Tenochtitlan (now Mexico City) - was possibly the largest city in the world by the time the Spanish conquistadores arrived. We begin the course with a look at two of the pre-Columbian empires - the Aztecs and the Incas. The conquest of the Americas is often used to mark the beginning of what has been called the "rise of the West". The subject deals with why and how the West eventually established such dominance. It does so in the context of on-going controversies about this, about the motivations for the conquest and the dynamics of settler societies and colonial structures. In particular we will examine world-systems and dependency perspectives on these processes. All of this is dealt with in terms of its implications for "third world" societies today. During the course we will also sample the rich and varied culture of Latin America - its food, music, literature and film. Visit the course web page at http://www.uow.edu.au/arts/histpol/latin_america.html

Coordinator: John Minns

Subject Objectives: information unavailable

POL290 Women in Society: Productive and Reproductive Labour 8cp

Spring Wollongong On Campus

Spring Shoalhaven Flexible

Spring Batemans Bay Flexible

Spring Bega Education Flexible Access Centre

Contact Hours: Wollongong - 1 hour lecture, 2 hours tutorials; Other - information not available.

Pre-requisites: (6cp of POL) or (12cp at 100-level in any subject/s)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: 2 essays 80%; tutorial paper 20%

Subject Description: This subject examines the constitution of gendered subjectivity, especially femininity, in industrialised societies. Key feminist concerns are addressed through the analysis of recent Australian publications about women focussing on paid work, family life, legal processes, sexuality and popular media. The role of the liberal democratic state in the regulation of gender relations is explored. Team work forms the core of student learning with discussion and project groups nearly every week.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Explain gender difference, embodiment, social reproduction and related concepts in terms of the workforce, the home and popular culture. 2. Understand the social production of subjectivity through experiences of race/ethnicity, class, gender and sexuality. 3. Write critically about a specific argument in the literature. 4. Learn through team work.

POL314 Power and the Modern State 8cp

Spring Wollongong On Campus

Contact Hours: 3 hrs per week.

Pre-requisites: (14 cp of POL with 8cp at 200-level) or (HIST210 with 6cp of POL)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Tutorial paper 20%; Research Essay 50%; Examination 30%

Subject Description: Examines the nature and exercise of power in the modern state. Surveys liberal, socialist and conservative writings on power and the state in relation to the development of the types of polity that characterise modern advanced industrial countries such as Australia and countries in Europe, East Asia and North America. Analyses concepts such as reason of state, sovereignty, class, individualism, civil society, nation, the welfare state and the idea of the decline of the state.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Have an understanding of the forces that gave rise to the development of the modern state. 2. Demonstrate an appreciation of a variety of approaches to the modern state including liberal, conservative and socialist. 3. Analyse critically some of the key ideas associated with the modern state including sovereignty, state, welfare state, civil society, reason of state.

POL315 The Politics of Post Communist Countries 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: (14 cp of POL with 8cp at 200-level) or (HIST210 with 6cp of POL)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Tutorial Paper 20% of Final Grade; Research Essay 40% of Final Grade; Examination (3hr ) containing seen and unseen questions) 30% of Final Grade; Participation 10% of Final Grade

Subject Description: This subject examines problems of transition from soviet-style state socialism in the successor states of the former USSR and Eastern Europe. It contrasts the
Subject Description:
Russian and East European experience with market transition in the Peoples Republic of China and the reasons differences persist. Issues examined include: new forms of political representation, the transition to a market economy, changing roles for women and men, social welfare provision, economic decline and corruption, reforming the legal system, trade unions and new social movements, and minority nationalities policy. Recent theories of state and civil society will be analysed.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Outline the main features of the collapse of soviet-style socialism. 2) Analyse the reasons for successes and failures in the transition process. 3) Analyse policy formulation and key problem areas in post communist countries. 4) Use methods of comparative politics to compare different polities. 5) Demonstrate an understanding of recent social and political thought in the area.

POL317 Politics in the South Pacific 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (14 cp of POL with 8cp at 200-level) or (HIST210 with 6cp of POL)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial paper 20%; essay 40%; exam 30%; tutorial participation 10%

Subject Description: The subject analyses the politics and international relations of Papua New Guinea and other South Pacific island countries. Particular attention is paid to problems of government and issues in development, including external security and domestic law and order; decolonisation and constitutional change; interethnic and other internal conflicts; economic participation and distribution; foreign policy-making and regional cooperation, including relations with external actors.

Subject Objectives: information unavailable.

POL318 The Asian Tigers - Newly Industrialising Countries in Transition 8cp

Subject Description: Once they were called "miracle" economies. The extraordinarily rapid economic growth of these Newly Industrialising Countries - South Korea, Taiwan and Singapore - seemed to point the way forward for "third world" societies everywhere. But today the Tigers are in serious economic crisis - the miracle has turned into a mess. Some have argued that the earlier success of the Tiger economies derived from the cultural values of their people. Others have claimed that their political structures or economic policies were the key to their achievements. This subject looks at these and other explanations and places them in the context both of older processes of industrialisation - particularly those which took place in Europe and Japan - and of the continuing poverty of "third world" societies today. Finally we will consider the implications for Australia of the Tigers phenomena.

Subject Objectives: information unavailable

POL319 Political Economy in the New Millennium 8cp

Subject Description: The subject covers the development of Political Economic theory from antiquity to the present day. The centrality of political economy to political enquiry is stressed. It discusses major theorists from Plato, Quesnay, Steuart, Locke, Adam Smith, John Stuart Mill, Karl Marx and John Maynard Keynes to contemporary thinkers, debates and issues. It analyses core aspects of their approach to key political questions, such as: the role of the modern state, human nature, social order, civil society, freedom and necessity, production, distribution and justice. It questions the relevance of their thought to contemporary issues in a (post)-modern environment.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Outline the main features of the collapse of soviet-style socialism. 2) Analyse the reasons for successes and failures in the transition process. 3) Analyse policy formulation and key problem areas in post communist countries. 4) Use methods of comparative politics to compare different polities. 5) Demonstrate an understanding of recent social and political thought in the area.
Subject Description: This subject examines key debates concerning cultural politics in the twentieth century. Particular attention is paid to debates about Marxism and modernism, the political impact of mass culture, feminist cultural politics and the political significance of postmodernism. Key intellectual groupings analysed include the Frankfurt School, the Birmingham Centre for Contemporary Cultural Studies, American and French cultural feminism, the New York intellectuals, the Situationists. A major focus of the subject is upon the ways in which culture and politics intersect, the cultural forms which are most bound up with the world of politics and the political processes which are shaped by cultural forces. There will be scope for students to pursue any specific interests they have in the field.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate a clear knowledge of key debates in the field of cultural politics in the twentieth century. 2. Analyse critically the work of certain major thinkers in the twentieth century. 3. Deal with abstract and complex ideas in creative ways.

POL368 Protest and Power in America: The Sixties 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (14 cp of POL with 8cp at 200-level) or (HIST210 with 8cp of POL) or (14 cp of HIST with 8cp at 200-level) or (AUST101 with 8cp of HIST at 200-level)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essays 30%, essays 40%, one exam 30%
Subject Description: The 1960s was a pivotal decade in contemporary history and this subject examines the political upheavals, social transformations and cultural rebellions of those years in the USA. Analysis will focus upon the civil rights and black power movements, the new left, the student movement, the anti-war movement, the women's and gay liberation movements and the counter-culture. These movements sponsored significant social changes and raised issues which are still reverberating today.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate a clear knowledge of the many issues which became prominent in America during the 1960s. 2. Analyse critically the role of social movements in the 1960s. 3. Be aware of the way in which the 1960s still helps shape contemporary politics, society and culture.

POL401 Politics IV (Honours) 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: 52 credit points in a Politics major at an average of no less than 70%
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Thesis 60%; essays 40%
Subject Description: Requirements: (1) Research thesis of 15,000-20,000 words, based on student's own supervised research and making a modest contribution to political knowledge; (2) Two to three major essays totalling 11,000 - 12,000 words based on the seminar series (3) Regular attendance at weekly honours seminars (two sessions); (4) A work in progress report to be delivered to the seminar group
Subject Objectives: information unavailable

POL430 Joint Honours in Politics and Another Discipline 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: 52 credit points in a Politics major at an average of no less than 70%
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Depends on the nature of the combined degree
Subject Description: Students are advised to contact the Head of Program well before the session in which they intend to begin their Honours year so that precise course requirements can be arranged with the other Program.

Subject Objectives: information unavailable

SOC103 Aspects of Australian Society 6cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: 1hr lecture, 2hr seminar.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Report (1000 words) 15%; Tutorial presentation 15%; Tutorial participation 10%; Major essay (1500 words) 25%; Examination 35%
Subject Description: The subject concentrates on the basic issues involved in understanding both society in general, globalisation and contemporary Australian society. Themes of inequality and power are explored through the four dimensions of class, gender, ethnicity and the environment. The ways in which our individual lives intersect with the broader social structures are explored through an examination of family life, paid work, the influence of the media, and the impact of social movements.

Subject Objectives: On successful completion of this subject a student will be able to: 1. Define and use terms applicable to the study of Sociology within a social and cultural context. 2. Demonstrate an understanding of the range of theories and concepts utilized in the discipline. 3. Relate general theoretical concepts to specific phenomena. 4. Understand and utilize key methodological strategies in the study of the various levels of society. 5. Develop creative and innovative strategies for negotiating the rapidly changing future of human societies.

SOC104 Communication, Media and Society 6cp
Spring Wollongong On Campus
Contact Hours: 1hr lecture, 2hr seminar.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (CCS109)
Assessment: Report (1000 words) 15%; Tutorial presentation 15%; Tutorial participation 10%; Major essay (1500 words) 25%; Examination 35%
Subject Description: Communication binds societies together, and the forms it takes range from the personal to the globe-spanning web of electronic communication. This subject examines the spectrum of communication from a sociological perspective, focusing not simply on the 'vehicle' of transmission but rather on what is being transmitted and its impact on
Subject Descriptions

Society. The focus is on the media as a vehicle for cultural communication, fragmentation and change, introduces theoretical methodological issues, and its impact is evaluated in the areas of: tourism, religion, visuality and the television culture, and crime.

Subject Objectives: On successful completion of this subject a student will be able to: 1. Define and use terms applicable to the study of Sociology within a social and cultural context. 2. Demonstrate an understanding of the range of theories and concepts utilized in the discipline. 3. Relate general theoretical concepts to specific phenomena. 4. Understand and utilize key methodological strategies in the study of the various levels of society. 5. Develop creative and innovative strategies for negotiating the rapidly changing future of human societies.

SOC203 Developing Sociological Theories 8cp

Subject Description: Students are introduced to sociological theory, considered as a constantly evolving form of socially organized practical activity. What do people do with sociological theories, and what do sociological theories do with people? Examples will be drawn from a wide variety of classic and contemporary writings in sociology and cognate areas of the human sciences. We will emphasise seeking commonalities and parallels among theories with a view to possible accommodation or synthesis, while identifying outstanding points of disagreement and considering various means for their resolution in logical analysis, empirical research and application to questions of policy or organization.

Subject Objectives: Upon completion, students should be able to: 1. Develop useful theories about people in society, and suggest ways of testing or applying them as appropriate; 2. Use these in sustained arguments, spoken and written, responding to peer feedback; 3. Identify the main features of sociological theorizing and forms of explanation by reviewing a book; 4. Recognize and apply key sociological concepts, theories and theorists under multiple-choice examination conditions; 5. Give correct terminology and other basics under short-answer examination conditions; and 6. Reflect on ethical conduct of social theory and vice-versa.

SOC204 Culture, Power and Social Change 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: (12 cp at 100-level Sociology) or (6 cp at 100-level Sociology plus CCS105)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Book review 20%; Seminar paper 40%; Multiple-choice and short-answer examination 40%.

Subject Description: The family occupies a contradictory place in contemporary social thought, on one hand seen as natural part of social life and on the other in crisis. This subject explores the diverse sociological approaches to the family through a comparative analysis of family life in Australia and selected Asian countries. It places these theoretical perspectives in the context of the changes in family form and the life cycle from early modern times to the present.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate an understanding of a range of sociological and anthropological theories. 2. Apply a range of sociological and anthropological theories to the study of the family and various stages of the life cycle. 3. Develop competence and confidence in the use of written and verbal skills in the analysis of a range of issues dealt with in the subject. 4. Gain experience in applying sociological methodologies. 5. Develop skills in critically analysing texts. 6. Prepare and deliver oral presentations.

SOC205 Sociology of the Family 8cp

Contact Hours: 1 hour lecture, 2hr seminar per week.

Pre-requisites: 24 cp including 6cp in 100 level Sociology

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Interview transcript 20%; Seminar presentation & paper 30%; Seminar preparation 10%; Interpretive analysis 40%

Subject Description: This course is on the sociology of culture. The subject will explore anthropological and sociological definitions of culture and will examine the relationship between culture and industrial society, mass/popular culture, and culture, modernity and post-modernity. Substantive areas covered, which will also form the basis of student projects, include 'race'; ethnicity and culture; class and culture; gendered cultures; popular/media culture; youth cultures. Throughout the course students will examine some theoretical/methodological issues which concern how cultures is produced, how it relates to structures of power and domination and how these structures can be changed through intervention.

Subject Objectives: Information unavailable.

SOC221 Political Sociology 8cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: (12 cp at 100-level Sociology including SOC103) or (12 cp at 100-level Sociology including SOC104) or (12 cp from POL121, POL111, POL141)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: E-mail group discussion 10%; Class work 20%; Class participation 10%; Group project 25%; Final essay 35%

Subject Description: What is power? Who has it? How do you get it? How does it work? This course examines sociological theories of power from the 1950s to the 1990s, from Talcott Parsons to Michel Foucault, including Marxism, pluralism, and feminism. Work in class is of a practical and applied nature, and focuses on ways of changing the world, their potentials and limitations.

Subject Objectives: Information unavailable.

SOC222 Sociology of Crime and Justice 8cp

Contact Hours: 1hr lecture, 2hr seminar.

Pre-requisites: (24cp including 6cp of 100 level Sociology) or (24cp including LLB100 or LAW100) or (24cp including ARTS112 or ARTS113)

Co-requisites: none

Restrictions: none

Exclusions: none
**Subject Description:** The course is a critical and contextual look at aspects of the criminal justice system in, primarily, New South Wales. Areas covered include: policing, the court system, the representation of crime, public space, juveniles and justice, the criminalisation of social disadvantage and white-collar crime. These areas are addressed through an interdisciplinary framework that draws on ideas from sociology, criminology, social theory and cultural studies. Students are encouraged to consider how we are constituted in relation to the criminal justice system; rather than looking at the system from an imagined position outside its intricate and complex practices, institutions and representations.

**Subject Objectives:** On successful completion of this subject, a student will be able to: 1. think critically and creatively to challenge accepted or commonsense knowledge about the crime problem. 2. have an understanding of how the criminal justice system works in NSW. 3. reflect on criminology and sociology as disciplines, that is, as part of the human sciences. 4. examine some of the sources of criminal justice policy - media-public opinion, criminology and political opportunism. 5. work in a team to give a presentation on a set topic.

**SOC231 Introduction to Social Research 8cp**

- **Spring**
  - Wollongong: On Campus
  - Shoalhaven: Flexible
  - Bega Education: Flexible
  - Batemans Bay: Flexible

- **Contact Hours:** WebCT lecture notes, 2hr seminar, Pre-requisites: (24cp including 8cp at 100 level Sociology) or (ARTS112 and ARTS113)
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** Not to count with SOC296

- **Assessment:** Report review 10%; Research proposal 20%; Short answer exercises 30%; Research report 40%

**Subject Description:** This subject introduces students to key methods in social research: literature-based research; content analysis of documents, secondary analysis of statistics, and observation. Students will learn the value of using multiple research methods to explore and explain social relations. This is a skills based subject which includes undertaking library research, constructing and reading tables, manipulating a computer database, and writing a research report. The students will study aspects of the University of Wollongong.

**Subject Objectives:** At the end of this subject a student will be able to: 1) Use the library as a resource for original research; 2) Collect and analyse unobtrusive data; 3) Construct and manipulate secondary statistical data; and 4) Conduct a research project and develop report writing skills.

**SOC241 Culture and Communication 8cp**

- **Spring**
  - Wollongong: On Campus

- **Contact Hours:** 1hr lecture, 2hr seminar per week.
- **Pre-requisites:** 24cp including 6cp at 100 level Sociology
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none

- **Assessment:** Research essay 50%; critical commentaries 30%; group presentation 20%

**Subject Description:** Culture and communication are interdependent; culture is primarily about communication and communication is done through culture. To be without communication is to be in a culture of one. Systems of meaning, from the obvious, (language) to the more obscure (bodily gestures) are cultural; they exist within and through cultural practices that we are all doing everyday. The course examines ways that we communicate on the personal level, in conversation and through everyday interactions, and how different media, like film, television and the internet, are cultural forms of communication. These cultural forms of communication make different types of social relations and many of these forms of communication are visual. The course is structured around the question of whether we are a visual culture. This question is addressed through briefly analysing the cultural and historical determinants of how we see things, the role of image in social life, how looking at each other in everyday interactions constitutes the self-other relationship, and how subjectivities are formed through looking at films. In contrast, we also consider the often forgotten ways to communicate, including face to face conversation, odours and touch.

**Subject Objectives:** On successful completion of this subject, a student will be able to: 1. have an understanding of, and the interrelationships between, concepts from cultural, social and anthropological theory, including representation, sensorium, simulation, image, the gaze, visuality, culture, communication. 2. be able to apply the above concepts to aspects of everyday life in the form of written and oral arguments. 3. be able to think reflectively and imaginatively about culture an communication. 4. be able to work in small groups to give a presentation on a set topic.

**SOC242 Contemporary Issues in Society 8cp**

- **Autumn**
  - Wollongong: On Campus

- **Pre-requisites:** 24cp including 6cp at 100 level Sociology.
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none

- **Assessment:** Group project 25%; Tutorial presentation 20%; Participation 15%; Major Essay (2000 words) 40%

**Subject Description:** The subject will extend the concepts and forms of argument introduced in 100 level subjects to current social issues. The focus will vary from year to year, depending upon the prominence of particular social issues and the availability of staff. Among topics that might be covered are: Aborigines, unemployment, globalisation, family forms, welfare forms and poverty.

**Subject Objectives:** On successful completion of this subject, a student will be able to: 1. Define and use terms applicable to the study of Sociology within a social and cultural context. 2. Demonstrate an understanding of the range of theories and concepts utilized in the arguments concerning Globalisation and its effect on the environment. 3. Relate general Sociological theoretical concepts to specific phenomena. 4. Understand and utilize key methodological strategies in the study of the various levels involved. 5. Develop creative and innovative strategies for negotiating the rapidly changing future of human societies.

**SOC243 Contesting Asia: Culture, Diversity, Difference 8cp**

- **Autumn**
  - Wollongong: On Campus

- **Pre-requisites:** 24cp including 6cp at 100 level Sociology and either HIST107 or HIST121
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** Not to count with HIST287
Subject Descriptions

Assessment: Critical summaries 10%; mid-session class test 25%; oral presentation 20%; subject summary assignment 45%

Subject Description: This subject will examine the intersection of culture, economy and religion in Asia. It will analyse the significance of comparative approaches in sociology and anthropology in the age of globalisation. Drawing upon contrasting examples from contemporary Asian societies, particularly South Asia this subject will investigate some of the taken for granted assumptions about the process of social change. It will consider the notion of difference to explore the ways in which diverse groups within the region assert their cultural identities, resist marginalisation and critique forms of inequality. We will also pay attention to how Asian cultures have been represented in Western texts.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. demonstrate an understanding of social change in the sphere of culture, religion and economy in selected Asian countries 2. acquire knowledge of comparative approaches in sociology and anthropology for studying social change in Asian societies and cultures 3. apply a range of theories to explain forms of inequality in South Asia 4. develop skills in critically analysing texts 5. work in small groups 6. prepare and deliver oral presentations

SOC244 Punishment: Purpose, Practice, Policy 8cp
Spring Wollongong On Campus
Contact Hours: 1 hr lecture; 2 hr seminar per week.
Pre-requisites: (24cp including 6cp of 100-level Sociology) or (24cp including LLB100 or LAW100) or (24cp including ARTS112 or ARTS113)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research essay 50%; Concept paper 30%; Group presentation 20%

Subject Description: Why do we punish those who break the law; what benefit is gained, and for whom, from imprisonment and other forms of criminal justice sanctions? Are jails for retribution, rehabilitation, deterrence, revenge, a symbol of control or order, a way to make us feel superior? Once some of the reasons or justifications for punishment are addressed we look at some of the multiple ways to punish offenders and some policy options that can, or cannot make a difference. The course is an investigation into the more general issue of what we as a society get out of punishment and what it costs each of us, ie the differential impact of punishment on various sections of society.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. discuss the main justifications for punishing offenders; 2. outline and analyse the main forms of sanctions available to the criminal justice system; 3. produce a detailed analysis of some of the main concepts involved in purposes of punishment; 4. to make and sustain links between the purposes and practices of punishment; 5. develop and present a group project on a set topic.

SOC302 Contemporary Social and Political Thought 8cp

Contact Hours: Subject not on offer in 2002.
Pre-requisites: 16 cp at 200-level Sociology including SOC203
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major essay 40%; Seminar paper 30%; Presentation & participation 20%

Subject Description: This subject intends to provide an overview of twentieth century developments in the discipline through an examination of contemporary issues, debates and controversies. Students will examine some critical issues such as interests, consciousness and action; social and cultural reproduction, ideology and hegemony; power, knowledge and resistance, culture and globalisation. The debates around these issues will be explored through a variety of theoretical perspectives.

Subject Objectives: information unavailable.

SOC303 The Individual in Society 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: 16 cp at 200-level Sociology
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Exercises 40%; Group project presentation 20%; group major report 40%

Subject Description: This subject examines fundamental aspects of human identity and explores the extent to which an individual is 'socially constructed'. The subject broadly addresses the question of how personal identity is achieved and communicated in the context of change and uncertainty. The individual is located in the historical, cultural and institutional context of 'modern/postmodern' times through a consideration of contemporary myths ideologies and practices which provide structure and meaning to daily life (eg love, gender, truth). These issues involve cross-cultural exploration of different models of self, identity and relationship. Students have the opportunity to explore a range of perspectives including interactionist, structuralist, post-structuralist and post-modern approaches to questions of identity and communication. This also involves some consideration of 'non-western' traditions and questions about the ecological status of human identity.

Subject Objectives: information unavailable.

SOC305 Race and Ethnic Studies 8cp

Contact Hours: 1hr lecture, 2hr seminar.
Pre-requisites: (16 cp at 200-level Sociology) or (ABST100 plus 8 credit points of 200-level Sociology)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Seminar paper 20%; Seminar presentation 15%; Mid session class test 25%; Open book final examination 40%

Subject Description: This subject introduces students to theories of race, racism, ethnicity and migration. These will be linked to other dimensions of social structure and action, in particular class and gender relations. Global political economy, international migration and the process of ethnic group formation will be examined as the basis for many current situations of ethnic diversity. For Australia, we will look at the situation of indigenous people and of immigrants, and examine the role of cultural diversity in the development of social relations and national identity. We will also examine such issues at the international level. Examples will be drawn both from Australia and other countries. The subject includes consideration of the subjective and structural dimensions of racial oppression, ethnic mobilisation and liberation movements, as well as an analysis of the theoretical and substantive relationships between culture, identity and resistance.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. demonstrate an understanding of
current issues relating to race and ethnicity on a global scale 2. evaluate different theoretical frameworks in sociology and anthropology that have been utilised to explain race and ethnic relations in different social contexts 3. apply sociological analyses to several current issues 4. use the library as a resource for original research 5. work in small groups 6. critically analyse the work of others 7. communicate and argue sociologically

**SOC306 Sociological Research: Methodology and Practice 8cp**

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**Contact Hours:** Wollongong - 1L, 2S, Shoalhaven, Bega Education Access Centre and Batemans Bay - 3hrs lecture/seminar per week.

**Pre-requisites:** 24cp at 200-level including SOC231

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Exercises 40%; Group project presentation 20%; Group major report 40%.

**Subject Description:** This subject will build on the research skills introduced in SOC 231. Contemporary debates in research methodology will be addressed through lectures, discussion and critical evaluation of the literature. Tools for advanced data analysis will be developed in skills-based workshops. Students will have an opportunity to practise the skills by conducting a group project.

**Subject Objectives:** On successful completion of this subject, a student should be able to: 1. make a substantial contribution to the design and conduct of an empirical sociological investigation; 2. discuss and critically evaluate social research literature in a manner consistent with contemporary best practice; 3. work productively as a member of a research team; 4. present findings orally and in writing.

**SOC307 Urban Society 8cp**

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** (16 cp at 200-level Sociology) or (8 credit points at 200-level Sociology + GEOS242)

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** information unavailable.

**Subject Description:** See Head of Program.

**Subject Objectives:** information unavailable.

**SOC308 Social and Public Policy 8cp**

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**Contact Hours:** Wollongong - 1L, 2S, Shoalhaven, Bega Education Access Centre and Batemans Bay - 3hrs lecture/seminar per week.

**Pre-requisites:** (16 cp at 200-level Sociology) or (16 cp at 200-level Politics) or (16cp at 200-level from the Community and Environment major/specialisation)

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** E-mail group discussion 20%; submission presentation 30%; Major essay 50%.

**Subject Description:** This subject explores the relationship between social policy and sociological theory. The subject will review major debates in contemporary sociology in these areas and move towards understanding policy in Australia. The discussion of social policy in Australia will focus on understanding the role of the State, the development and impact of policy, and the historical and materialist base in which the State and its policies are located.

**Subject Objectives:** 1. To develop an overview of social/public policy theory, assumptions and processes. 2. To acquaint students with some of the skills and knowledge required to engage in social policy analyses and research whether in a paid or unpaid capacity. 3. To provide students with the knowledge and skills and to critically analyse policy issues in contemporary Australian society. 4. To develop submission writing skills using a current policy issue. 5. To provide students with skills to use the media in policy debates.

**SOC309 Social Movements 8cp**

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**Contact Hours:** 1 hr lecture, 2 hr seminar per week.

**Pre-requisites:** 16cp at 200-level Sociology

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Major essay 40%; Seminar presentation 15%; Group presentation 15%, Project paper 20% and class participation 10%.

**Subject Description:** This subject will examine historically and sociologically, local and global power relations with particular reference to traditional and recent channels of power and change. Firstly, some of the traditional channels, such as trade unions, will be analysed as agents of change. Secondly new social movements including the women's movement, urban movements, environmental and minority liberation movements, will be examined. Thirdly, students will also investigate recently emerged web-based protest groups.

**Subject Objectives:** information unavailable

**SOC318 Sociology of Development 3cp**

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**Contact Hours:** 1hr lecture, 2hr tutorial.

**Pre-requisites:** 16 cp in Sociology at 200-level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Analysis of development issue and policy 30%; Seminar presentation & paper 30%; Class test 15%; and seen examination 25%.

**Subject Description:** This subject will examine the development experience of people in the new global order. It will introduce students to the debates on development that emerged following the break up of European colonial empires. It will examine the ensuing interaction between rich and poor nations, and theoretical explanations for the emergence of international disparities of wealth. In particular it will focus on the Asia-Pacific region and explore the power laden international context in which development discourses are produced. A number of case studies will be utilised to explore local understanding of what constitutes development.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Demonstrate an understanding of a range of sociological and anthropological theories. 2. Apply sociological analyses to several current development issues. 3. Use the library as a resource for original research. 4. Work in small groups. 5. Prepare and deliver oral presentations. 6. Critically analyse the work of others. 7. Communicate and argue sociologically. 8. Demonstrate an understanding of contemporary development issues in the region.

SOC330 The Sociology of Gender Relations 8cp

Autumn Wollongong On Campus

Contact Hours: 1hr lecture, 2hr seminar.

Pre-requisites: 16 cp in Sociology at 200-level.

Co-requisites: none

Restrictions: none

Assessment: Seminar presentation 15%; minor essay 20%; seminar preparation 20%; open book examination 45%

Subject Description: This subject examines sociological theories that seek to explain the significance of gender as an organising principle of social life. It examines contemporary debates on the relationship between sex, gender and biology, and the intersection of gender and power. The following issues are addressed through a comparative analysis of literature on masculinity and femininity: class, sexuality, ethnicity, the body, violence, and the state.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Understand the social significance of gender, and the different ways sociologists discuss it; 2) Apply sociological analyses to several current issues in gender relations; 3) Use the library as a resource for original research; 4) Work in small groups; 5) Use email to contribute to an online discussion group; 6) Critically analyse the work of others; and 7) Communicate and argue sociologically.

SOC334 Bread & Circuses 8cp

Spring Wollongong On Campus

Contact Hours: 1hr lecture, 2hr seminar.

Pre-requisites: 16cp in Sociology at 200-level

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Tutorial paper 20%; tutorial presentation 20%; Class participation 20%; Major essay 40%

Subject Description: Bread and Circuses explores the issues of spectacle and violence. Utilising the Roman Games as a starting point it focuses on the modern day media and electronic circus (newspapers, magazines, books, television, movies, radio and advertising industries). The subject examines three major areas: war, sport and horror in its analysis of spectacle and violence.

Subject Objectives: On successful completion of this subject, a student will be able to: 1) Define and use terms applicable to a Sociological study of spectacle and violence within a social and cultural context. 2) Demonstrate an understanding of the range of theories and concepts utilized in the arguments concerning both the functions and impact of spectacle and violence. 3) Relate general sociological theoretical concepts to specific phenomena in the areas of war, sport and horror in order to examine their interconnections. 4) Understand and utilize key methodological strategies in the study of the various levels involved. 5) Develop creative and innovative strategies for negotiating the rapidly changing future of human societies.
Subject Objectives: information unavailable

SOC450 Joint Honours in Psychology and Sociology 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Thesis and coursework.
Subject Description: For details of the four year program for students intending to enrol in this subject, refer to entry under Program of Psychology.
Subject Objectives: information unavailable

SOC451 Joint Honours in Sociology and Another Discipline 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Thesis and coursework.
Subject Description: The combined Honours course will consist of a program of study totalling 48 credit points approved by the Sociology Head of Program and Head of Discipline in collaboration with the Head of the other Program concerned. The program will normally be composed of elements offered at 400-level by the two Programs.
Subject Objectives: information unavailable

SPAN151 Spanish for Beginners 1 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hours p/wk.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Continuous assessment 90%; Participation 10%
Subject Description: This is a language course in Spanish for beginners or near beginners in Spanish and presupposes no prior study of the language. It is useful for students wanting to acquire a basic knowledge of Spanish, and for those interested in using Spanish for business and travel. The emphasis is on communication (listening and speaking) and the development of an elemental competence in reading and writing.
Subject Objectives: On successful completion of this subject, students will: 1. Achieve a basic proficiency level in listening and speaking Spanish. 2. Achieve an elemental competence in reading and writing Spanish. 3. Demonstrate a basic knowledge and understanding of the Hispanic world and culture.

SPAN152 Spanish for Beginners 2 6cp
Spring Wollongong On Campus
Contact Hours: 3 hrs per week.
Pre-requisites: SPAN151
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Continuous assessment 90%, Participation 10%
Subject Description: The program in Spanish for SPAN151 is sustained and developed. The emphasis is on communication (listening and speaking) and the development of a basic competence in reading and writing that can be used for business and travel.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Achieve a reasonable proficiency in listening and speaking Spanish. 2. Achieve a basic competence in reading and writing Spanish. 3. Demonstrate a deeper knowledge and understanding of the Hispanic world and culture.

STS100 Social Aspects of Science and Technology 6cp
Autumn Wollongong On Campus
Contact Hours: 2 hr L 1 hr T.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (STS 103) OR (STS 190) OR (STS 200) OR (STS 203) OR (STS 290)
Assessment: Essays, presentations and class participation
Subject Description: This subject introduces different ways of analysing the social and historical dimensions of science, medicine and technology - their origins, dynamics, impacts and management. After breaking down some common myths about science and technology and their relation to society, it shows how we can conceptualise and investigate in a more fruitful way the formation of scientific knowledge, the development of technological artefacts and systems, and debates and policies concerning scientific and technological issues.
Subject Objectives: information unavailable

STS103 Social Aspects of Science and Technology 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: 6 cp of Arts subjects
Co-requisites: none
Restrictions: none
Exclusions: (STS 100) or (STS 203) or (STS 190) or (STS 200) or (STS 290)
STS100 or STS103 or STS190 or STS200 or STS290
Assessment: Essays, assignments and exam
Subject Description: This subject introduces different ways of analysing the social and historical dimensions of science, medicine and technology - their origins, dynamics, impacts and management. After breaking down some common myths about science and technology and their relation to society, it shows how we can conceptualise and investigate in a more fruitful way the formation of scientific knowledge, the development of technological artefacts and systems, and debates and policies concerning scientific and technological issues.
Subject Objectives: information unavailable.
Subject Descriptions

STS112 The Scientific Revolution: History, Philosophy & Politics of Science 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (STS117) or (STS192) or (STS212) or (STS217) or (STS292) or (HIST250)
Assessment: Essays, presentations and class participation
Subject Description: This subject introduces fundamental issues and techniques in the history and philosophy of science. It examines the origins of modern European science, as exemplified in the work of Copernicus, Galileo, Newton and others. The social, religious, political and economic factors shaping the emergence and content of the new science are analysed. Emphasis is placed on critical historical thinking and use of tools from the sociology of scientific knowledge.
Subject Objectives: information unavailable.

STS116 Environment in Crisis: Technology and Society 6cp
Spring Wollongong On Campus
Contact Hours: WebCT lecture, 2 hr tutorial.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (STS 216) OR (STS 218)
Assessment: Essay, presentations, test and class participation
Subject Description: This subject deals with the technological and social causes of environmental problems and the obstacles in the way of solutions being found to these problems. A range of case studies is used to illustrate the role of human activities in the environmental crisis and its solution. A focus on particular industries is complemented by an examination of the parts played by the media, governments, scientists, corporations and the community.
Subject Objectives: As a result of involvement in the activities of this subject students should be able to present in oral and written form critical analyses of the role of science and technology in the creation, explanation, prevention and solution of environmental problems, and, in particular: the social causes and consequences of environmental damage and the ways that debates on them are conducted; the procedures and techniques by which decisions on environmental controversies are, or might be, made, and action on them taken; different ways of explaining and understanding processes and activities associated with environmental controversies.

STS117 The Scientific Revolution: History, Philosophy and Politics of Science 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: 6 cp of Arts subjects
Co-requisites: none
Restrictions: none
Exclusions: (STS112) or (STS212) or (STS217) or (STS192) or (STS292) or (HIST250)
Assessment: Essays, assignments and exam
Subject Description: This subject introduces fundamental issues and techniques in the history and philosophy of science. It examines the origins of modern European science, as exemplified in the work of Copernicus, Galileo, Newton and others. The social, religious, political and economic factors shaping the emergence and content of the new science are analysed. Emphasis is placed on critical historical thinking and use of tools from the sociology of scientific knowledge.
Subject Objectives: information unavailable.

STS120 Technology in Society: East and West 6cp
Spring Wollongong On Campus
Contact Hours: 2hr lecture, 1hr tutorial.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: (STS 220) OR (STS 221)
Assessment: Essays, presentations and class participation
Subject Description: The role of technology in the functioning of the modern industrial nation has become the focus of international attention. The Asia-Pacific region has expanded in influence, transnational corporations have proliferated and the older industrial nations are attempting to adjust. Why have these changes taken place and what do they mean? This subject investigates the social, economic, and political context of technological change.
Subject Objectives: information unavailable

STS128 Computers in Society 6cp
Spring Wollongong On Campus
Contact Hours: 2 hr L 1 hr T.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: STS 228
Assessment: Essays, presentations and class participation
Subject Description: This subject examines the development, role and implications of computers. How are computers being applied in factories, offices and schools? What is their effect on work? What patterns of employment are they helping to create? Has job loss from their introduction been compensated by new economic activity? Are computers leading to increased political control? What are their implications for privacy? Students are introduced to relevant concepts and theoretical frameworks from the social sciences.
Subject Objectives: information unavailable

STS200 Social Aspects of Science and Technology 8cp
Autumn Wollongong On Campus
Contact Hours: 2 hr L 1 hr T.
Pre-requisites: 24 credit points
Co-requisites: none
Restrictions: none
Exclusions: (STS 100) OR (STS 103) OR (STS 190) OR (STS 203) OR (STS 290)
Assessment: Essays, presentations and class participation
Subject Description: This subject introduces different ways of analysing the social and historical dimensions of science, medicine and technology - their origins, dynamics, impacts and management. After breaking down some common myths about science and technology and their relation to society, it shows how we can conceptualise and investigate in a more fruitful way the formation of scientific knowledge, the development of technological artefacts and systems, and debates and policies concerning scientific and technological issues.
Subject Objectives: information unavailable
STS203 Social Aspects of Science and Technology 8cp

Contact Hours: Subject not on offer in 2002.
Pre-requisites: (24 cp including at least 1 Arts subject)
Co-requisites: none
Restrictions: none
Exclusions: (STS100) or (STS200) or (STS190) or (STS290)
Assessment: Essays, assignments and exam

Subject Description: This subject introduces different ways of analysing the social and historical dimensions of science, medicine and technology - their origins, dynamics, impacts and management. After breaking down some common myths about science and technology and their relation to society, it shows how we can conceptualise and investigate in a more fruitful way the formation of scientific knowledge, the development of technological artefacts and systems, and debates and policies concerning scientific and technological issues.

Subject Objectives: information unavailable.

STS212 The Scientific Revolution: History, Philosophy & Politics of Science 8cp

Contact Hours: Subject not on offer in 2002.
Pre-requisites: 36 credit points
Co-requisites: none
Restrictions: none
Exclusions: (STS112) or (STS117) or (STS192) or (STS217) or (STS292) or (STS250)
Assessment: Essays, presentations and class participation

Subject Description: This subject introduces fundamental issues and techniques in the history and philosophy of science. It examines the origins of modern European science, as exemplified in the work of Copernicus, Galileo, Newton and others. The social, religious, political and economic factors shaping the emergence and content of the new science are analysed. Emphasis is placed on critical historical thinking and use of tools from the sociology of scientific knowledge.

Subject Objectives: information unavailable.

STS215 Globalisation: science, technology and progress 8cp

Autumn Wollongong On Campus

Contact Hours: 2 hr L 1 hr T
Pre-requisites: 36 credit points
Co-requisites: none
Restrictions: none
Exclusions: STS 315
Assessment: Essays, presentations and class participation

Subject Description: The view that scientific, technological and economic development automatically leads to progress is very common. It underlies the thrust for spreading western technological and economic systems throughout the world. The historical development of this view is critically examined and alternative explanations of the origin and social role of science and technology in contemporary society are discussed.

Subject Objectives: information unavailable.

STS216 Environment in Crisis: Technology & Society 6cp

Spring Wollongong On Campus

Contact Hours: WebCT lecture, 2hr tutorial.
Pre-requisites: 36 credit points
Co-requisites: none
Restrictions: none

Exclusions: (STS 116) OR (STS 218)
Assessment: Essay, presentations, test and class participation

Subject Description: This subject deals with the technological and social causes of environmental problems and the obstacles in the way of solutions being found to these problems. A range of case studies is used to illustrate the role of human activities in the environmental crisis and its solution. A focus on particular industries is complemented by an examination of the parts played by the media, governments, scientists, corporations and the community.

Subject Objectives: As a result of involvement in the activities of this subject students should be able to present in oral and written form critical analyses of the role of science and technology in the creation, explanation, prevention and solution of environmental problems, and, in particular: the social causes and consequences of environmental damage and the ways that debates on them are conducted; the procedures and techniques by which decisions on environmental controversies are, or might be, made and action on them taken; different ways of explaining and understanding processes and activities associated with environmental controversies.

STS217 The Scientific Revolution: History, Philosophy and Politics of Science 8cp

Contact Hours: Subject not on offer in 2002.
Pre-requisites: (24 cp including at least 1 Arts subject)
Co-requisites: none
Restrictions: none
Exclusions: (STS112) or (STS117) or (STS192) or (STS217) or (STS292) or (HIST250)
Assessment: Essays, assignments and exam

Subject Description: This subject introduces fundamental issues and techniques in the history and philosophy of science. It examines the origins of modern European science, as exemplified in the work of Copernicus, Galileo, Newton and others. The social, religious, political and economic factors shaping the emergence and content of the new science are analysed. Emphasis is placed on critical historical thinking and use of tools from the sociology of scientific knowledge.

Subject Objectives: information unavailable.

STS218 Environment in Crisis: Technology and Society 8cp

Spring Wollongong On Campus
Spring Shoalhaven Flexible
Spring Bega Education Flexible
Spring Batemans Bay Flexible

Contact Hours: WebCT lecture, 2hr tutorial,
Pre-requisites: 36 credit points
Co-requisites: none
Restrictions: none
Exclusions: (STS 116) OR (STS 216)
Assessment: Essay, presentations, test and class participation

Subject Description: This subject deals with the technological and social causes of environmental problems and the obstacles in the way of solutions being found to these problems. A range of case studies is used to illustrate the role of human activities in the environmental crisis and its solution. A focus on particular industries is complemented by an examination of the parts played by the media, governments, scientists, corporations and the community.

Subject Objectives: As a result of involvement in the activities of this subject students should be able to present in oral and
written form critical analyses of the role of science and technology in the creation, explanation, prevention and solution of environmental problems, and, in particular: the social causes and consequences of environmental damage and the ways that debates on them are conducted; different ways of explaining and understanding processes and activities associated with environmental controversies.

**Subject Objectives:**

STS220 Technology in Society: East and West 8cp

**Spring** Wollongong On Campus

**Contact Hours:** 2hr L, 1 hr T.

**Pre-requisites:** 36 credit points

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** STS 120 OR STS 221

**Assessment:** Essays, presentations and class participation

**Subject Description:** The role of technology in the functioning of the modern industrial nation has become the focus of international attention. The Asia-Pacific region has expanded in influence, transnational corporations have proliferated and the older industrial nations are attempting to adjust. Why have these changes taken place and what do they mean? This subject investigates the social, economic, and political context of technological change.

**Subject Objectives:** information unavailable

**STS221 Technology in Society: East and West 6cp**

**Spring** Wollongong On Campus

**Contact Hours:** 2hr L, 2hr T.

**Pre-requisites:** 36 credit points

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** (STS 120) OR (STS 220)

**Assessment:** Essays, presentations and class participation

**Subject Description:** The role of technology in the functioning of the modern industrial nation has become the focus of international attention. The Asia-Pacific region has expanded in influence, transnational corporations have proliferated and the older industrial nations are attempting to adjust. Why have these changes taken place and what do they mean? This subject investigates the social, economic, and political context of technological change.

**Subject Objectives:** information unavailable

**STS223 The Politics of Medicine and Health 8cp**

**Spring** Wollongong On Campus

**Contact Hours:** 1 hr L, 2hrs T.

**Pre-requisites:** 36 credit points

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** (STS 332) OR (STS 936)

**Assessment:** Essays, presentations and class participation

**Subject Description:** This subject explores the social, economic and political dimensions of medicine and health care: the forces shaping them, their implications and their limitations. Themes and topics may include: the shaping of medical knowledge and discourses, and concepts of health and sickness; institutions and markets; evaluation of new remedies; technological innovation; health and medical policies; the politics of cancer; health in the workplace; ethical dilemmas; critiques of conventional medicine and health care; alternative health practices.

**Subject Objectives:** information unavailable

**STS228 Computers in Society 8cp**

**Spring** Wollongong On Campus

**Contact Hours:** 2 hr L 1 hr T.

**Pre-requisites:** 24 credit points

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** STS 128

**Assessment:** Essays, presentations and class participation

**Subject Description:** This subject examines the development, role and implications of computers. How are computers being applied in factories, offices and schools? What is their effect on work? What patterns of employment are they helping to create? Has job loss from their introduction been compensated by new economic activity? Are computers leading to increased political control? What are their implications for privacy? Students are introduced to relevant concepts and theoretical frameworks from the social sciences.

**Subject Objectives:** information unavailable

**STS229 Scientific and Technological Controversy 8cp**

**Spring** Wollongong On Campus

**Contact Hours:** 1hr L, 2hrs T.

**Pre-requisites:** 36 credit points including any STS subject

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** STS 329

**Assessment:** Essays, presentations and class participation

**Subject Description:** Recent studies of scientific and technological controversies have shown that scientific 'facts' and technological systems cannot be dissociated from the social and political interests which they embody. According to this approach, controversies must be treated as inherently social and political processes where there are no impartial experts. This subject will consider the process by which scientific and technological controversies arise, are prosecuted and resolved, making extensive use of case studies.

**Subject Objectives:** information unavailable

**STS235 The Politics of Risk 8cp**

**Spring** Wollongong On Campus

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** 36 credit points

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** (STS 335) or (STS 376) or (STS 931)

**Assessment:** Essays, presentations and class participation

**Subject Description:** This subject examines hazards to human life and health associated with technologies - in the workplace and the wider environment. It focuses on the politics and economics of the generation and distribution of hazards; methods and problems in analysing and evaluating risks; discourses, debates and decision-making on hazards; and strategies for managing them. It compares different theoretical approaches for explaining these processes and debates and for informing intervention in them.

**Subject Objectives:** information unavailable
The Environmental Context

Co-requisites: none
Restrictions: none
Exclusions: STS350

Subject Description: This subject examines the development, impact and social context of molecular biology and genetic engineering. Topics may include: the development of a model for DNA; the development of recombinant DNA techniques; Asilomar and safety; corporate influence on molecular biology; ethical and political issues in genetic screening and genetic engineering; regulation of biotechnology and social control of research priorities; legal and moral issues in the patenting of life forms; the human genome project; the release of recombinant organisms; and biotechnology industry in Australia.

Subject Objectives: Information unavailable

STS260 Technology and body politics 8cp

Contact Hours: Subject not on offer in 2002.
Pre-requisites: 36 credit points
Co-requisites: none
Restrictions: none
Exclusions: STS360

Subject Description: People's understanding and images of the body, health and human nature have been structured by the science, medicine, popular belief and larger social forces of different historical periods. An understanding of this shaping of medical knowledge is essential to a critical awareness of contemporary health issues. This subject examines the social history of science, medicine and culture and introduces Foucauldian, feminist and social constructivist perspectives.

Subject Objectives: Information unavailable

STS288 Science and the Media 8cp

Contact Hours: 3hrs L/S.
Pre-requisites: 36 credit points
Co-requisites: none
Restrictions: none
Exclusions: STS388

Subject Description: Science increasingly frames social debates, and is itself socially directed. The media play a central role in both processes, a role often subject to criticism, especially from scientists. This subject examines the complex social dimensions of the relation between science, media and the 'public'. Topics may include: scientific knowledge in political debates; public understanding of science; media portrayals of science and scientists; science journalism; science as 'public knowledge'; and pro- versus anti-science 'movements'.

Subject Objectives: Information unavailable

STS300 The Environmental Context 8cp

Contact Hours: WebCT lecture, 2hrs tutorial.
Pre-requisites: 24 cp at 100-level
Co-requisites: none
Restrictions: none
Exclusions: none
Subject Descriptions

**Assessment:** Essay, presentations, test and class participation

**Subject Description:** Perspectives on the wider political, economic and social context of the environment are developed and explored. Topics covered include: an analysis of the principles and goals of sustainable development including issues of growth, valuation of the environment, the global dimension and equity; politics and social dynamics of environmental controversies; the politics of scientific knowledge about the environment; methods and policies for managing the environment.

**Subject Objectives:** On completion of this subject, students should be able to: (a) independently examine possible solutions and courses of action for reducing or avoiding environmental problems; and (b) evaluate alternative views, philosophies and ways of thinking that can be applied to environmental problems.

**STS306 Special Topics in the Social and Policy Aspects of Engineering** 6cp

**Autumn** Wollongong On Campus

**Contact Hours:** 3 hrs per week.

**Pre-requisites:** ENGG161 and Approval of Head of Program

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Essays and/or presentations

**Subject Description:** This subject allows Engineering students to examine specific social, historical or policy aspects of engineering projects or of the work of engineers or technologists. Students must obtain the approval of the Engineering Faculty for the subject to count towards their degree and the approval of the STS Program for a specific programme of work.

**Subject Objectives:** information unavailable

**STS315 Globalisation: Science, Technology and Progress** 8cp

**Autumn** Wollongong On Campus

**Contact Hours:** 2 hr L 1 hr T.

**Pre-requisites:** 16 credit points at 200 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** STS215

**Assessment:** Essays, presentations and class participation

**Subject Description:** The view that scientific, technological and economic development automatically leads to progress is very common. It underlies the thrust for spreading western technological and economic systems throughout the world. The historical development of this view is critically examined and alternative explanations of the origin and social role of science and technology in contemporary society are discussed.

**Subject Objectives:** information unavailable

**STS323 The Politics of Medicine and Health** 8cp

**Spring** Wollongong On Campus

**Contact Hours:** 1hrL, 2hrs T

**Pre-requisites:** 16 credit points at 200 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** (STS223) OR (STS936)

**Assessment:** Essays, presentations and class participation

**Subject Description:** This subject explores the social, economic and political dimensions of medicine and health care: the forces shaping them, their implications and their limitations. Themes and topics may include: the shaping of medical knowledge and discourses, and concepts of health and sickness; institutions and markets; evaluation of new remedies; technological innovation; health and medical policies; the politics of cancer; health in the workplace; ethical dilemmas; critiques of conventional medicine and health care; alternative health practices.

**Subject Objectives:** information unavailable

**STS329 Scientific and Technological Controversy** 8cp

**Spring** Wollongong On Campus

**Contact Hours:** 1hrL, 2hrT

**Pre-requisites:** 16 credit points at 200 level including any STS subject

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** STS229

**Assessment:** Essays, presentations and class participation

**Subject Description:** Recent studies of scientific and technological controversies have shown that scientific 'facts' and technological systems cannot be dissociated from the social and political interests which they embody. According to this approach, controversies must be treated as inherently social and political processes where there are no impartial experts. This subject will consider the process by which scientific and technological controversies arise, are prosecuted and resolved, making extensive use of case studies.

**Subject Objectives:** information unavailable

**STS335 The Politics of Risk** 8cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** 16 credit points at 200 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** (STS235) or (STS376) or (STS931)

**Assessment:** Essays, presentations and class participation

**Subject Description:** This subject examines hazards to human life and health associated with technologies - in the workplace and the wider environment. It focuses on the politics and economics of the generation and distribution of hazards; methods and problems in analysing and evaluating risks; experts. This subject will consider the process by which scientific and technological controversies arise, are prosecuted and resolved, making extensive use of case studies.

**Subject Objectives:** information unavailable

**STS336 Advanced Topics in the History of Science** 1500-1800 12cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** information unavailable.

**Subject Description:** This subject deals each year with one advanced history of science topic in the Scientific Revolution and/or Enlightenment. Textual criticism of primary sources is emphasised, along with recent historiographical debates. Topics include: the body in the Scientific Revolution; Descartes and the rise of the Mechanical Philosophy; the experimental life - origins or processes; Newton and Newtonianism; the natural
philosophical field and its sites - universities, courts, scientific societies and correspondence networks.

**Subject Objectives:** information unavailable.

**STS340 Technological Change, Popular Culture and New Media 8cp**

**Spring**

Wollongong On Campus

**Contact Hours:** 3hrsL/2hrsT.

**Pre-requisites:** 16 credit points at 200 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** (STS 240) OR (STS 241)

**Assessment:** Essays, presentations and class participation

**Subject Description:** Technological change has a long history of transforming means of communication, from the printing press to the internet. New means of expression become possible, from the novel to electronic music. Popular culture interacts with technology both through artistic production and commercial distribution and control. Theories of communication and technology help to make sense of this complex dynamic.

**Subject Objectives:** information unavailable

**STS350 From Molecular Genetics to Biotechnology 8cp**

**Autumn**

Wollongong On Campus

**Contact Hours:** 1 hr L 2 hr T.

**Pre-requisites:** 16 credit points at 200 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** STS 250

**Assessment:** Essays, presentation and class participation

**Subject Description:** This subject examines the development, impact and social context of molecular biology and genetic engineering. Topics may include: the development of a model for DNA; the development of recombinant DNA techniques; Asilomar and safety; corporate influence on molecular biology; ethical and political issues in genetic screening and genetic engineering; regulation of biotechnology and social control of research priorities; legal and moral issues in the patenting of life forms; the human genome project; the release of recombinant organisms; and biotechnology industry in Australia.

**Subject Objectives:** information unavailable

**STS360 Technology and Body Politics 8cp**

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** 16 credit points at 200 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** STS260

**Assessment:** Essays, presentations and class participation

**Subject Description:** People's understanding and images of the body, health and human nature have been structured by the science, medicine, popular belief and larger social forces of different historical periods. An understanding of this shaping of medical knowledge is essential to a critical awareness of contemporary health issues. This subject examines the social history of science, medicine and culture and introduces Foucauldian, feminist and social constructivist perspectives.

**Subject Objectives:** information unavailable

**STS376 The Politics of Risk 6cp**

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** 16 credit points at 200 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** (STS235) or (STS335) or (STS931)

**Assessment:** Essays, presentations and class participation

**Subject Description:** This subject examines hazards to human life and health associated with technologies - in the workplace and the wider environment. It focuses on the politics and economics of the generation and distribution of hazards; methods and problems in analysing and evaluating risks; discourses, debates and decision-making on hazards; and strategies for managing them. It compares different theoretical approaches for explaining these processes and debates and for informing intervention in them.

**Subject Objectives:** information unavailable

**STS388 Science and the Media 8cp**

**Autumn**

Wollongong On Campus

**Contact Hours:** 3 hrs L/S

**Pre-requisites:** 16 credit points at 200 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** STS 288

**Assessment:** Essays, presentations and class participation

**Subject Description:** Science increasingly frames social debates, and is itself socially directed. The media play a central role in both processes, a role often subject to criticism, especially from scientists. This subject examines the complex social dimensions of the relation between science, media and the 'public'. Topics may include: scientific knowledge in political debates; public understanding of science; media portrayals of science and scientists; science journalism; science as 'public knowledge'; and pro- versus anti-science 'movements'.

**Subject Objectives:** information unavailable

**STS399 Research Topics in Science and Technology Studies 8cp**

**Spring**

Wollongong On Campus

**Autumn**

Wollongong On Campus

**Contact Hours:** As required.

**Pre-requisites:** 16 credit points at 200 level and approval of Head of Program

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Written assignments and seminar presentations as required

**Subject Description:** This subject involves reading and research, supervised by one or more members of STS staff, and the production of a major report, on a topic the Program considers suited to the student's background, record and specialisation. A seminar presentation and/or other written assignments may also be required in the course of the research. Students must seek approval to enrol and must negotiate a topic before session starts.

**Subject Objectives:** information unavailable
Subject Descriptions

STS400  Science, Technology and Society Studies  48cp

Annual  Wollongong  On Campus
Spring 2002/  Wollongong  On Campus
Autumn 2003

Contact Hours: As required.
Pre-requisites: Approval of Head of Program
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Thesis and coursework
Subject Description: Honours students undertake a 12 credit point subject on theory and methods in STS, specialist subjects totalling 12 CP, and a 24 credit point thesis. Students contribute to a series of seminars through the year. Students considering Honours in STS should contact the Head of Program well in advance to seek approval for enrolment, discuss their programme, and negotiate a thesis topic and supervisor.
Subject Objectives: information unavailable

STS430  Joint Honours in Science, Technology & Society & Another Discipline  24cp

Annual  Wollongong  On Campus
Spring 2002/  Wollongong  On Campus
Autumn 2003

Contact Hours: As required.
Pre-requisites: Approval of Head of Program
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Thesis and coursework
Subject Description: Students should have completed studies in both disciplines accepted as equivalent to a major. The subject consists of components from the Honours programmes of each unit approved by both Heads as forming a coherent programme, including a thesis. Students contribute to a series of seminars in STS through the year. Students considering Joint Honours should contact the unit Heads well in advance to seek approval for enrolment, discuss their programme, and negotiate a thesis topic and supervisors.
Subject Objectives: information unavailable
Faculty of Commerce

Member Units

- Accounting and Finance
- Economics
- Information Systems
- Management
- Marketing

Degrees Offered

- Bachelor of Business Administration
- Bachelor of Commerce
- Bachelor of Mathematics and Finance
- Bachelor of Mathematics and Economics
- Bachelor of Accountancy (Malaysia)

Double Degrees

- Bachelor of Arts-Bachelor of Commerce
- Bachelor of Creative Arts - Bachelor of Commerce
- Bachelor of Engineering - Bachelor of Commerce
- Bachelor of Law- Bachelor of Commerce
- Bachelor of Psychology - Bachelor of Commerce
- Bachelor of Science (Faculty of Health and Behavioural Sciences) - Bachelor of Commerce

Selected Commerce Majors are also available through the following degree programs:

- Bachelor of Arts (Accountancy)
- Bachelor of Arts (Economics)
- Bachelor of Arts (Industrial Relations)
- Bachelor of Arts (Management)
- Bachelor of Arts (Marketing)
- Bachelor of Science (Human Resource Management)
- Bachelor of Science (Management)
- Bachelor of Science (Marketing)
- Bachelor of Mathematics (Marketing)
- Bachelor of Internet Science and Technology (Business Information Systems)
- Bachelor of Information and Communication Technology (Marketing)
- Bachelor of Information and Communication Technology (Business Information Systems)

Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/ or contact the relevant Faculty.
Course Structures

Bachelor of Business Administration

Course Requirements

1. To qualify for award of the degree of Bachelor of Business Administration a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of subjects listed in the program of Study.

2. A maximum of 72 credit points of 100-level subjects can be undertaken as part of the Bachelor of Business Administration Degree.

3. Students should note that a Pass Conceded, Pass Terminating or Pass Restricted grade at 300-level in any required subject within the program of study for the Bachelor of Business Administration, does not satisfy degree requirements.

Subject listing for the Bachelor of Business Administration

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY100</td>
<td>Accounting IA</td>
<td>6</td>
</tr>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
<td>6</td>
</tr>
<tr>
<td>ACCY202</td>
<td>Financial Accounting IIA</td>
<td>6</td>
</tr>
<tr>
<td>ACCY211</td>
<td>Management Accounting II</td>
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<tr>
<td>ACCY221</td>
<td>Business Finance I</td>
<td>6</td>
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<tr>
<td>BUSS110</td>
<td>Introduction to Business Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>BUSS208</td>
<td>Computer Systems Management</td>
<td>6</td>
</tr>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>ECON111</td>
<td>Introductory Microeconomics</td>
<td>6</td>
</tr>
<tr>
<td>ECON121</td>
<td>Quantitative Methods I</td>
<td>6</td>
</tr>
<tr>
<td>ECON142</td>
<td>Industrial Relations A</td>
<td>6</td>
</tr>
<tr>
<td>ECON230</td>
<td>Quantitative Analysis for Decision Making</td>
<td>6</td>
</tr>
<tr>
<td>ECON348</td>
<td>Employers and Industrial Relations</td>
<td>8</td>
</tr>
<tr>
<td>LAW130</td>
<td>The Business of Law</td>
<td>6</td>
</tr>
<tr>
<td>MARK101</td>
<td>Introduction to Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK217</td>
<td>Consumer Behaviour</td>
<td>6</td>
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<tr>
<td>MARK270</td>
<td>Services Marketing</td>
<td>6</td>
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<tr>
<td>MARK344</td>
<td>Marketing Strategy</td>
<td>6</td>
</tr>
<tr>
<td>MGMT110</td>
<td>Introduction to Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT314</td>
<td>Strategic Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT398</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Plus three electives</td>
<td></td>
</tr>
</tbody>
</table>

Subject listing for the Bachelor of Business Administration, offered at the Dubai Campus.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY100</td>
<td>Accounting IA</td>
<td>6</td>
</tr>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
<td>6</td>
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<tr>
<td>ACCY221</td>
<td>Business Finance I</td>
<td>6</td>
</tr>
<tr>
<td>BUSS110</td>
<td>Introduction to Business Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>ECON111</td>
<td>Introductory Microeconomics</td>
<td>6</td>
</tr>
<tr>
<td>ECON121</td>
<td>Quantitative Methods I</td>
<td>6</td>
</tr>
<tr>
<td>ECON142</td>
<td>Industrial Relations A</td>
<td>6</td>
</tr>
<tr>
<td>ECON230</td>
<td>Quantitative Analysis for Decision Making</td>
<td>6</td>
</tr>
<tr>
<td>MARK101</td>
<td>Introduction to Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MGMT102</td>
<td>Business Communications</td>
<td>6</td>
</tr>
<tr>
<td>MGMT110</td>
<td>Introduction to Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT201</td>
<td>Organisational Behaviour</td>
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<tr>
<td>MGMT216</td>
<td>Operations Management</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Plus at least one of the following</td>
<td></td>
</tr>
<tr>
<td>ECON205</td>
<td>Macroeconomic Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON215</td>
<td>Microeconomic Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Plus</td>
<td></td>
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<tr>
<td>MGMT314</td>
<td>Strategic Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT389</td>
<td>International Business Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT398</td>
<td>Human Resources Management</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Plus two of the following</td>
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</tr>
<tr>
<td>ECON301</td>
<td>Monetary Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON307</td>
<td>International Monetary Economics</td>
<td>8</td>
</tr>
</tbody>
</table>
ECON310  Cost Benefit Analysis 8
ECON302  Transition Economics 8
Plus a further twenty four credit points of electives, twelve of which must be at 200-level or higher.

Bachelor of Business Administration (Accountancy)

Course Requirements
1. To qualify for the award of Bachelor of Business Administration (Accountancy) a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of subjects listed in the program of study.
2. A maximum of 72 credit points of 100-level subjects can be undertaken as part of the Bachelor of Business Administration (Accountancy) Degree.
3. Students should note that a Pass Conceded, Pass Terminating or Pass Restricted grade at 300-level in any required subject within the program of study for the Bachelor of Business Administration (Accountancy), does not satisfy the degree requirements.

The Bachelor of Business Administration (Accountancy) is currently offered at the Dubai Campus. Please refer to the Department of Accounting and Finance for subject listing.

Bachelor of Business Administration (Hospitality Management)

This course will be offered in conjunction and concurrently with the TAFE Diploma in Hospitality Management. The Hospitality Management component will be delivered by TAFE and result in the award of a Diploma in Hospitality Management after six sessions.

Course Requirements
1. To qualify for the award of Bachelor of Business Administration (Hospitality Management) a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of subjects listed in the program of study.
2. A maximum of 72 credit points of 100-level subjects can be undertaken as part of the Bachelor of Business Administration (Hospitality Management) Degree.
3. Students should note that a Pass Conceded, Pass Terminating or Pass Restricted grade at 300-level in any required subject within the program of study for the Bachelor of Business Administration (Hospitality Management), does not satisfy the degree requirements.
4. Cross articulation may occur between the TAFE Diploma in Hospitality Management and the University of Wollongong Bachelor of Business Administration (Hospitality Management) provided these courses are completed concurrently.
5. Should the Diploma in Hospitality Management be completed prior to enrolling in the BBA the standard articulation agreement will apply.
6. All admission applications must be completed on an Undergraduate Course Application Form.

The subject listing is the same as for BBA with the exception of those subjects for which credit is granted for the TAFE Diploma.

Bachelor of Accountancy

Course Requirements
1. To qualify for the award of Bachelor of Accountancy a candidate must satisfactorily complete the subjects listed in the program of study.
2. A maximum of 72 credit points of 100-level subjects can be undertaken as part of the Bachelor of Accountancy Degree.
3. Students should note that a Pass Conceded, Pass Terminating or Pass Restricted grade at 300-level in any required subject within the program of study for the Bachelor of Accountancy does not satisfy the degree requirements.

The Bachelor of Accountancy is currently offered at Inti College, Malaysia campus. Please refer to the Department of Accounting and Finance, for subject listing.
Course Structures

Bachelor of Commerce

(1) To qualify for award of the degree of Bachelor of Commerce a candidate shall accrue an aggregate of at least 144 credit points, including a major study and electives if required, by satisfactory completion of subjects listed in the General Schedule.

(2) Students must complete and pass all core subjects plus one of the approved BCom degree majors.

(3) A maximum of 72 credit points of 100-level subjects can be undertaken as part of the Bachelor of Commerce Degree.

(4) Students should note that a Pass Conceded, Pass Terminating or Pass Restricted grade at 300-level in any required subject within the schedule for the selected major area does not satisfy degree requirements. A student wishing to graduate with a double major must obtain clear passes in both majors at 300-level to satisfy requirements.

Core Subjects for all Bachelor of Commerce Candidates

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY100</td>
<td>Accounting IA</td>
<td>6</td>
</tr>
<tr>
<td>BUS110</td>
<td>Introduction to Business Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECON111</td>
<td>Introductory Microeconomics</td>
<td>6</td>
</tr>
<tr>
<td>ECON121</td>
<td>Quantitative Methods I</td>
<td>6</td>
</tr>
<tr>
<td>MARK101</td>
<td>Introduction to Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MGMT110</td>
<td>Introduction to Management</td>
<td>6</td>
</tr>
</tbody>
</table>

Accountancy students may substitute STAT131 Understanding Variation and Risk for ECON121 Quantitative Methods I. Note that entry to this subject depends on HSC or equivalent performance (see General Schedule, School of Mathematics and Applied Statistics, for details).

Approved Majors for the BCOM Degree

<table>
<thead>
<tr>
<th>Major Name</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Accountancy</td>
<td>C-2</td>
</tr>
<tr>
<td>Business Information Systems</td>
<td>C-4</td>
</tr>
<tr>
<td>Economics</td>
<td>C-3</td>
</tr>
<tr>
<td>Employment Relations</td>
<td>C-24</td>
</tr>
<tr>
<td>Finance</td>
<td>C-9</td>
</tr>
<tr>
<td>Financial Planning</td>
<td>C-71</td>
</tr>
<tr>
<td>Human Resource Management</td>
<td>C-61</td>
</tr>
<tr>
<td>Industrial Relations</td>
<td>C-5</td>
</tr>
<tr>
<td>International Business</td>
<td>C-50</td>
</tr>
<tr>
<td>Management</td>
<td>C-6</td>
</tr>
<tr>
<td>Marketing</td>
<td>C-8</td>
</tr>
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</table>

Combined Majors

<table>
<thead>
<tr>
<th>Combined Major Name</th>
<th>Code</th>
</tr>
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<tbody>
<tr>
<td>Accountancy and Business Information Systems</td>
<td>C-13</td>
</tr>
<tr>
<td>Accountancy and Economics</td>
<td>C-12</td>
</tr>
<tr>
<td>Accountancy and Finance</td>
<td>C-41</td>
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<tr>
<td>Accountancy and Industrial Relations</td>
<td>C-11</td>
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<tr>
<td>Accountancy and Legal Studies</td>
<td>C-19</td>
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<tr>
<td>Accountancy and Management</td>
<td>C-10</td>
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<tr>
<td>Business Information Systems and Economics</td>
<td>C-17</td>
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<td>Business Information Systems and Legal Studies</td>
<td>C-23</td>
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<tr>
<td>Business Information Systems and Management</td>
<td>C-18</td>
</tr>
<tr>
<td>Economics and Industrial Relations</td>
<td>C-14</td>
</tr>
<tr>
<td>Economics and Legal Studies</td>
<td>C-20</td>
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<tr>
<td>Economics and Management</td>
<td>C-15</td>
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<tr>
<td>Electronic Commerce and Accountancy</td>
<td>C-58</td>
</tr>
<tr>
<td>Electronic Commerce and Business Information systems</td>
<td>C-59</td>
</tr>
<tr>
<td>Electronic Commerce and Economics</td>
<td>C-60</td>
</tr>
<tr>
<td>Electronic Commerce and Finance</td>
<td>C-28</td>
</tr>
<tr>
<td>Electronic Commerce and Management</td>
<td>C-49</td>
</tr>
<tr>
<td>Electronic Commerce and Marketing</td>
<td>C-29</td>
</tr>
<tr>
<td>Finance and Business Information Systems</td>
<td>C-42</td>
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<tr>
<td>Finance and Economics</td>
<td>C-43</td>
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<td>Finance and Industrial Relations</td>
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<td>Finance and Legal Studies</td>
<td>C-44</td>
</tr>
<tr>
<td>Finance and Management</td>
<td>C-45</td>
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</tbody>
</table>
Major C-2

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the major in Accountancy:

ACCY102  Accountancy IIB  6
LAW100  Law in Society  6
ACCY201  Financial Accounting IIB  6
ACCY202  Financial Accounting IIA  6
ACCY211  Management Accounting II  6
ACCY221  Business Finance I  6
ACCY231  Information Systems in Accounting  6
LAW210  Contract Law  6
ACCY302  Financial Accounting III  12
ACCY312  Management Accounting III  6

Plus six credit points from the 300 level subjects offered by the Department of Accounting and Finance

Major C-3

In addition to the core subjects, the following subjects are required for the major in Economics:

ECON101  Macroeconomic Essentials for Business  6
COMM100  Introduction to Employment Relations  6
ECON122  Quantitative Methods II  6
ECON205  Macroeconomic Theory and Policy  8
ECON215  Microeconomic Theory and Policy  8
Course Structures

Plus at least two of the following:

- ECON207 Economic Policy 8
- ECON208 Gender, Work and the Family 8
- ECON216 International Trade Theory and Policy 8
- ECON221 Introductory Econometrics 8
- ECON228 Quantitative Analysis for Decision Making 8
- ECON231 Business Statistics and Forecasting 8
- ECON251 Industry and Trade in East Asia 8

* subject to approval

Plus at least three of the following:

- ECON301 Monetary Economics 8
- ECON302 Transition Economics 8
- ECON303 Economic Development Issues 8
- ECON307 International Monetary Economics 8
- ECON308 Labour Economics 8
- ECON309 Environmental Economics 8
- ECON310 Cost-Benefit Analysis 8
- ECON311 Natural Resource Economics 8
- ECON312 Industrial Economics 8
- ECON315 Applied Microeconomics 8
- ECON316 History of Economic Thought 8
- ECON317 Economics of Health Care 8
- ECON319 Electronic Commerce and the Economics of Information 6
- ECON320 Entrepreneurship and Small Business 8
- ECON322 Mathematical Economics 8
- ECON327 Econometrics 8
- ECON331 Financial Economics 8
- ECON332 Managerial Economics and Operations Research 8
- ECON333 Conflict and Cooperation 8
- ECON334 Global Economics 8

Major C-4

In addition to the core subjects, the following subjects are required for the major in Business Information Systems:

- LAW100 Law in Society 6

Plus at least one of:

- ACCY102 Accounting IB 6
- ECON101 Macroeconomic Essentials for Business 6

Plus

- BUSS102 Computer Systems 6
- BUSS111 Business Programming I 6
- BUSS208 Computer Systems Management 6
- BUSS211 Systems Analysis and Design 6
- BUSS212 Database Management Systems 6
- BUSS214 Business Programming II 6
- BUSS215 Business Programming III 6
- BUSS211 Advanced Database Management Systems 6
- BUSS312 Distributed Information Systems 6
- BUSS315 Knowledge-Based Information Systems 6
- BUSS318 Information Systems Project 6
- ECON122 Quantitative Methods II 6
Major C-5

In addition to the core subjects, the following subjects are required for the major in Industrial Relations:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM100</td>
<td>Introduction to Employment Relations</td>
<td>6</td>
</tr>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
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<tr>
<td></td>
<td>Plus one of the following</td>
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<tr>
<td>ECON140</td>
<td>Industrial Relations B: Wage Determination</td>
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<tr>
<td>ECON240</td>
<td>Industrial Relations B: Wage Determination</td>
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<tr>
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<td>Plus one of the following</td>
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<tr>
<td>ECON142</td>
<td>Industrial Relations A</td>
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<tr>
<td>ECON242</td>
<td>Industrial Relations A</td>
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<tr>
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<td>Plus one of the following</td>
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</tr>
<tr>
<td>ECON340</td>
<td>Comparative Studies in Industrial Relations</td>
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<tr>
<td>COMM341</td>
<td>International and Comparative Employment Relations</td>
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<td></td>
<td>Plus</td>
<td></td>
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<tr>
<td>ECON308</td>
<td>Labour Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON348</td>
<td>Employers and Industrial Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON352</td>
<td>Negotiation, Advocacy and Bargaining</td>
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<tr>
<td>LAW332</td>
<td>Labour Relations Law</td>
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<td></td>
<td>Plus at least one of the following</td>
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<tr>
<td>ECON208</td>
<td>Gender, Work and the Family</td>
<td>8</td>
</tr>
<tr>
<td>ECON215</td>
<td>Microeconomic Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON243</td>
<td>Work and Employment Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON302</td>
<td>Transition Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON312</td>
<td>Industrial Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON342</td>
<td>Research Topics in Industrial Relations</td>
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<tr>
<td>LAW330</td>
<td>Law of Employment</td>
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<tr>
<td>LAW335</td>
<td>Anti Discrimination Law</td>
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<tr>
<td>POL314</td>
<td>Power and the Modern State</td>
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</table>

Major C-6

In addition to the core subjects, the following subjects are required for the major in Management:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
<td>6</td>
</tr>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td>ACCY221</td>
<td>Business Finance I</td>
<td>6</td>
</tr>
<tr>
<td>MGMT102</td>
<td>Business Communications</td>
<td>6</td>
</tr>
<tr>
<td>MGMT201</td>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MGMT218</td>
<td>Competitive Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MGMT314</td>
<td>Strategic Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT398</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Plus at least one of the following</td>
<td></td>
</tr>
<tr>
<td>ECON230</td>
<td>Quantitative Analysis for Decision Making II</td>
<td>6</td>
</tr>
<tr>
<td>MARK239</td>
<td>Information for Marketing Decisions</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Plus at least twelve credit points from 200-level subjects and twelve credit points from 300-level subjects offered by the Department of Management</td>
<td></td>
</tr>
</tbody>
</table>

Major C-8

In addition to the core subjects, the following subjects are required for the major in Marketing:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
<td>6</td>
</tr>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Plus</td>
<td></td>
</tr>
<tr>
<td>MARK217</td>
<td>Consumer Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MARK239</td>
<td>Information for Marketing Decisions</td>
<td>6</td>
</tr>
<tr>
<td>MARK270</td>
<td>Services Marketing</td>
<td>6</td>
</tr>
</tbody>
</table>
Course Structures

MARK319  Applied Marketing Research  6
MARK333  Advertising and Promotions Strategy  6
MARK344  Marketing Strategy  6

Plus at least two, and up to a maximum of eight of the following:
MARK240  Marketing & Consumer Behaviour in East & South-East Asia  6
MARK301  Marketing on the Internet  6
MARK317  Business to Business Marketing  6
MARK343  International Marketing  6
MARK356  New Product Marketing  6
MARK359  Sales Management  6
MARK395  Tourism Marketing  6
MARK397  Retail Marketing Management  6

Major C-9

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the major in Finance:

LAW100  Law in Society  6
ACCY102  Accounting IB  6
ECON122  Quantitative Methods II  6
ECON101  Macroeconomic Essentials for Business  6
ACCY202  Financial Accounting IIA  6
ACCY221  Business Finance I  6
ACCY223  Investments I  6
LAW210  Contract Law  6
ACCY322  Business Finance II  6
ACCY323  Investments II  6
ACCY324  Financial Statement Analysis  6

Plus at least two of the following:
ACCY226  Financial Institutions  6
ECON215  Microeconomic Theory and Policy  8
MATH201  Multivariate and Vector Calculus  6
ACCY227  Finance in Small Business  6

Plus at least one of the following:
ACCY325  Banking Practice  6
ACCY327  Risk and Insurance  6
ACCY351  International Business Finance  6
ACCY352  Critical Perspectives in Finance  6
ECON331  Financial Economics  8

Major C-10

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Accountancy and Management:

ACCY102  Accounting IB  6
LAW100  Law in Society  6
MGMT102  Business Communications  6
ACCY201  Financial Accounting IIB  6
ACCY202  Financial Accounting IIA  6
ACCY211  Management Accounting II  6
ACCY221  Business Finance I  6
LAW210  Contract Law  6
MGMT201  Organisational Behaviour  6
MGMT218  Competitive Analysis  6
Faculty of Commerce

ACCY302 Financial Accounting III 12
ACCY312 Management Accounting III 6
MGMT314 Strategic Management 6
MGMT398 Human Resource Management 6

Plus at least one of the following:
MGMT216 Operations Management 6
MGMT220 Organisational Studies 6

Plus six credit points from 200-level subjects and twelve credit points from 300-level subjects offered by the Department of Management.

Plus six credit points from the 300 level subjects offered by the Department of Accounting and Finance.

Major C-11

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Accountancy and Industrial Relations:

ACCY102 Accounting IB 6
ECON101 Macroeconomic Essentials for Business 6
LAW100 Law in Society 6
COMM100 Introduction to Employment Relations 6
ACCY201 Financial Accounting IIB 6
ACCY202 Financial Accounting IIA 6
ACCY211 Management Accounting II 6
LAW210 Contract Law 6
ACCY302 Financial Accounting III 12
ACCY312 Management Accounting III 6

Plus one of the following:
ECON140 Industrial Relations B Wage Determination 6
ECON240 Industrial Relations B: Wage Determination 8

Plus one of the following:
ECON142 Industrial Relations A 6
ECON242 Industrial Relations A 8

Plus one of the following:
LAW330 Law of Employment 6
LAW332 Labour Relations Law 6

Plus at least three of the following:
ECON308 Labour Economics 8
ECON340 Comparative Studies in Industrial Relations 8
COMM341 International and Comparative Employment Relations 8
ECON348 Employers and Industrial Relations 8
ECON352 Negotiation, Advocacy and Bargaining 8

Plus six credit points from the 300 level subjects offered by the Department of Accounting and Finance.

Major C-12

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Accountancy and Economics:

ACCY102 Accounting IB 6
ECON101 Macroeconomic Essentials for Business 6
LAW100 Law in Society 6
ACCY201 Financial Accounting IIB 6
ACCY202 Financial Accounting IIA 6

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Major C-13

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Accountancy and Business Information Systems:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>ACCY102</td>
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<td>Law in Society</td>
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<tr>
<td>ACCY302</td>
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<tr>
<td>BUSS111</td>
<td>Business Programming I</td>
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<td>BUSS211</td>
<td>Systems Analysis and Design</td>
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<td>BUSS212</td>
<td>Database Management Systems</td>
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<td>Commercial Programming II</td>
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<td>BUSS215</td>
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<td>BUSS311</td>
<td>Advanced Database Management Systems</td>
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<td>BUSS312</td>
<td>Distributed Information Systems</td>
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<td>BUSS316</td>
<td>Information Systems Development Methodologies</td>
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<td>BUSS317</td>
<td>Business Programming IV</td>
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<td>ECON122</td>
<td>Quantitative Methods II</td>
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Plus six credit points from the 300 level subjects offered by the Department of Accounting and Finance

Major C-14

In addition to the core subjects, the following subjects are required for the combined major in Economics and Industrial Relations:

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>COMM100</td>
<td>Introduction to Employment Relations</td>
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<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
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<td>ECON122</td>
<td>Quantitative Methods II</td>
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<tr>
<td>LAW100</td>
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Plus one of the following

<table>
<thead>
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<tbody>
<tr>
<td>ECON140</td>
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<tr>
<td>ECON240</td>
<td>Industrial Relations B: Wage Determination</td>
<td>8</td>
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Plus one of the following

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<thead>
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<tr>
<td>ECON242</td>
<td>Industrial Relations A</td>
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</table>

Plus one of the following

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<thead>
<tr>
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<th>Credit Points</th>
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<tbody>
<tr>
<td>ECON340</td>
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<tr>
<td>COMM341</td>
<td>International and Comparative Employment Relations</td>
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Plus

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>ECON205</td>
<td>Macroeconomic Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON215</td>
<td>Microeconomic Theory and Policy</td>
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</tbody>
</table>
ECON348  Employers and Industrial Relations  8
ECON352  Negotiation, Advocacy and Bargaining  8
Plus at least twenty four credit points of the 300-level economics subjects listed in major C-3.
Plus one additional subject chosen from the specified or optional 300-level subjects listed in major C-5.

Major C-15

In addition to the core subjects, the following subjects are required for the combined major in Economics and Management:
ECON101  Macroeconomic Essentials for Business  6
MGMT102  Business Communications  6
Plus at least one of the following
ACCY102  Accounting IB  6
COMM100  Introduction to Employment Relations  6
LAW100  Law in Society  6
Plus
ECON205  Macroeconomic Theory and Policy  8
ECON215  Microeconomic Theory and Policy  8
ECON228  Quantitative Analysis for Decision Making I  8
MGMT201  Organisational Behaviour  6
MGMT218  Competitive Analysis  6
MGMT314  Strategic Management  6
MGMT398  Human Resource Management  6
Plus at least one of the following
MGMT216  Operations Management  6
MGMT220  Organisational Studies  6
Plus six credit points from 200-level and twelve credit points from 300-level subjects offered by the Department of Management.
Plus at least twenty four credit points of the 300-level Economics subjects listed in major C-3.

Major C-16

In addition to the core subjects, the following subjects are required for the combined major in Industrial Relations and Management:
LAW100  Law in Society  6
COMM100  Introduction to Employment Relations  6
ECON101  Macroeconomic Essentials for Business  6
Plus one of the following
ECON140  Industrial Relations B: Wage Determination  6
ECON240  Industrial Relations B: Wage Determination  8
Plus one of the following
ECON142  Industrial Relations A  6
ECON242  Industrial Relations A  8
Plus
LAW330  Law of Employment  6
LAW332  Labour Relations Law  6
MGMT102  Business Communications  6
MGMT201  Organisational Behaviour  6
MGMT218  Competitive Analysis  6
MGMT220  Organisational Studies  6
MGMT314  Strategic Management  6
MGMT398  Human Resource Management  6
Plus at least one of the following
MGMT215  Small Business Management  6
MGMT216  Operations Management  6
Plus at least three of the following
ECON308  Labour Economics  8
Course Structures

ECON340 Comparative Studies in Industrial Relations 8
COMM341 International and Comparative Employment Relations 8
ECON348 Employers and Industrial Relations 8
ECON352 Negotiation, Advocacy and Bargaining 8
Plus twelve credit points from 300-level subjects offered by the Department of Management.

Major C-17

In addition to the core subjects, the following subjects are required for the combined major in Business Information Systems and Economics:

ECON101 Macroeconomic Essentials for Business 6
Plus one of the following
ACCY102 Accounting IB 6
COMM100 Introduction to Employment Relations 6
LAW100 Law in Society 6
Plus
BUSS111 Business Programming I 6
BUSS211 Systems Analysis and Design 6
BUSS212 Database Management Systems 6
BUSS214 Business Programming II 6
BUSS215 Business Programming III 6
BUSS311 Advanced Database Management Systems 6
BUSS312 Distributed Information Systems 6
BUSS316 Information Systems Development Methodologies 6
BUSS317 Business Programming IV 6
ECON122 Quantitative Methods II 6
ECON215 Microeconomic Theory and Policy 8
ECON221 Introductory Econometrics 8
ECON228 Quantitative Analysis for Decision Making I 8
Plus at least twenty four credit points of the 300-level economics subjects listed in major C-3.

Major C-18

In addition to the core subjects, the following subjects are required for the combined major in Business Information Systems and Management:

At least one of the following
ACCY102 Accounting IB 6
COMM100 Introduction to Employment Relations 6
Plus
BUSS111 Business Programming I 6
LAW100 Law in Society 6
MGMT102 Business Communications 6
BUSS211 Systems Analysis and Design 6
BUSS212 Database Management Systems 6
BUSS214 Business Programming II 6
BUSS215 Business Programming III 6
MGMT201 Organisational Behaviour 6
MGMT218 Competitive Analysis 6
BUSS311 Advanced Database Management Systems 6
BUSS312 Distributed Information Systems 6
BUSS316 Information Systems Development Methodologies 6
BUSS317 Business Programming IV 6
MGMT314 Strategic Management 6
MGMT398 Human Resource Management 6
Plus at least one of the following
ECON122 Quantitative Methods II 6
ACCY221 Business Finance I 6
Plus six credit points from 200-level and twelve credit points from 300-level subjects offered by the Department of Management.

Major C-19

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Accountancy and Legal Studies:

ACCY102  Accounting IB          6
LAW100  Law in Society          6
LAW210  Contract Law            6
ACCY201  Financial Accounting IIB  6
ACCY202  Financial Accounting IIA  6
ACCY211  Management Accounting II  6
ACCY302  Financial Accounting III  12
ACCY312  Management Accounting III  6

Plus at least one of the following
ACCY221  Business Finance I  6
ACCY231  Information Systems in Accounting  6

Plus at least two of the following
LAW302  Law of Business Organisations  6
LAW315  Taxation Law  6
LAW330  Law of Employment  6

Plus four of the following
ACCY368  Insolvencies  6
LAW308  Administrative Law  6
LAW331  Intellectual Property Law  6
LAW332  Labour Relations Law  6
LAW334  Environmental Law  6
LAW335  Anti-Discrimination Law  6
LAW332  Advanced Taxation Law  6
LAW364  Consumer Protection and Business Regulation  6
LAW366  Selected Issues in Legal Studies  6

Plus six credit points from the 300 level subjects offered by the Department of Accounting and Finance.

Major C-20

The Head of the Department of Economics may approve the substitution of one 200-level subject from major C3-Economics in place of one of ECON205 or ECON215.

In addition to the core subjects, the following subjects are required for the combined major in Economics and Legal Studies:

ECON101  Macroeconomic Essentials for Business  6
LAW100  Law In Society  6
ECON122  Quantitative Methods II  6
ECON205  Macroeconomic Theory and Policy  8
ECON215  Microeconomic Theory and Policy  8
LAW210  Contract Law  6

Plus two of the following
LAW302  Law of Business Organisations  6
LAW315  Taxation Law  6
LAW330  Law of Employment  6
LAW334  Environmental Law  6

Plus at least twenty four credit points of Legal Studies at 300-level

Plus at least twenty four credit points of the 300-level economics subjects listed in major C-3.
Course Structures

Major C-21

In addition to the core subjects, the following subjects are required for the combined major in Industrial Relations and Legal Studies:

ECON101  Macroeconomic Essentials for Business  6
COMM100  Introduction to Employment Relations  6
LAW100  Law in Society  6

Plus one of the following

ECON140  Industrial Relations B: Wage Determination  6
ECON240  Industrial Relations B: Wage Determination  8

Plus one of the following

ECON142  Industrial Relations A  6
ECON242  Industrial Relations A  8

Plus one of the following

ECON340  Comparative Studies in Industrial Relations  8
COMM341  International and Comparative Employment Relations  8

Plus

ECON348  Employers and Industrial Relations  8
ECON352  Negotiation, Advocacy and Bargaining  8
LAW210  Contract Law  6
LAW330  Law of Employment  6
LAW332  Labour Relations Law  6
LAW335  Anti-Discrimination Law  6

Plus eighteen credit points of 300-level Legal Studies subjects.

Major C-22

In addition to the core subjects, the following subjects are required for the combined major in Management and Legal Studies:

At least one of the following:

ACCY102  Accounting IB  6
COMM100  Introduction to Employment Relations  6

Plus

LAW100  Law in Society  6
LAW210  Contract Law  6
MGMT102  Business Communications  6
MGMT201  Organisational Behaviour  6
MGMT218  Competitive Analysis  6
MGMT314  Strategic Management  6
MGMT398  Human Resource Management  6

Plus at least one of the following

ACCY221  Business Finance I  6
MGMT216  Operations Management  6
MGMT220  Organisational Studies  6

Plus at least two of the following

LAW302  Law of Business Organisations  6
LAW315  Taxation Law  6
LAW330  Law of Employment  6

Plus at least four of the following

ACCY368  Insolvencies  6
LAW308  Administrative Law  6
LAW331  Intellectual Property Law  6
LAW332  Labour Relations Law  6
LAW335  Anti-Discrimination Law  6
LAW352  Advanced Taxation Law  6
LAW364  Consumer Protection and Business Regulation  6
LAW366  Selected Issues in Legal Studies  6
Plus six credit points from 200-level subjects and twelve credit points from 300-level subjects offered by the Department of Management.

**Major C-23**

In addition to the core subjects, the following subjects are required for the combined major in Business Information Systems and Legal Studies:

- **LAW100**  Law in Society  6
- Plus at least one of the following
  - **ACCY102**  Accounting IB  6
  - **ECON101**  Macroeconomic Essentials for Business  6
- Plus
  - **BUSS111**  Business Programming I  6
  - **BUSS211**  Systems Analysis and Design  6
  - **BUSS212**  Database Management Systems  6
  - **BUSS214**  Business Programming II  6
  - **BUSS215**  Business Programming III  6
  - **ECON122**  Quantitative Methods II  6
  - **LAW210**  Contract Law  6
- Plus two of the following
  - **LAW302**  Law of Business Organisations  6
  - **LAW315**  Taxation Law  6
  - **LAW330**  Law of Employment  6
  - **BUSS311**  Advanced Database Management Systems  6
  - **BUSS312**  Distributed Information Systems  6
  - **BUSS316**  Information Systems Development Methodologies  6
  - **BUSS317**  Business Programming IV  6
- Plus four of the following
  - **LAW308**  Administrative Law  6
  - **LAW331**  Intellectual Property Law  6
  - **LAW332**  Labour Relations Law  6
  - **LAW334**  Environmental Law  6
  - **LAW335**  Anti-Discrimination Law  6
  - **LAW352**  Advanced Taxation Law  6
  - **LAW364**  Consumer Protection and Business Regulations  6
  - **LAW366**  Selected Issues in Legal Studies  6

**Major C-24**

In addition to the core subjects, the following subjects are required for the major in Employment Relations:

- **COMM100**  Introduction to Employment Relations  6
- **LAW100**  Law in Society  6
- **MGMT102**  Business Communications  6
- **MGMT201**  Organisational Behaviour  6
- **MGMT220**  Organisational Studies  6
- **MGMT314**  Strategic Management  6
- **MGMT322**  Training and Development  6
- **MGMT398**  Human Resource Management  6
- Plus one of the following
  - **ECON140**  Industrial Relations B Wage Determination  6
  - **ECON240**  Industrial Relations B Wage Determination  8
- Plus one of the following
  - **ECON142**  Industrial Relations A  6
  - **ECON242**  Industrial Relations A  8
- Plus
  - **COMM341**  International and Comparative Employment Relations  8
  - **ECON348**  Employers and Industrial Relations  8
Course Structures

**ECON352** Negotiation, Advocacy and Bargaining 8

Plus at least three of the following:

- **ECON101** Macroeconomic Essentials for Business 6
- **ECON243** Work and Employment Relations 8
- **LAW210** Contract Law 6
- **MGMT202** Management of Change 6
- **MGMT205** Recruitment and Selection 6
- **ECON308** Labour Economics 8
- **ECON342** Research Topics in Industrial Relations 8
- **LAW330** Law of Employment 6
- **LAW332** Labour Relations Law 6
- **LAW335** Anti-Discrimination Law 6
- **MGMT321** Occupational Health and Safety Management 6
- **MGMT351** Business Ethics 6

**Major C-28**

In addition to the core subjects, the following subjects are required for the combined major in Electronic Commerce and Finance:

- **ACCY102** Accounting IB 6
- **LAW100** Law in Society 6
- **ACCY202** Financial Accounting IIA 6
- **ACCY221** Business Finance I 6
- **ACCY223** Investments I 6
- **ACCY231** Information Systems in Accounting 6
- **LAW210** Contract Law 6
- **ECON122** Quantitative Methods II 6

Plus at least one of the following:

- **ACCY226** Financial Institutions 6
- **ACCY227** Finance in Small Business 6

Plus:

- **ACCY322** Business Finance II 6
- **ACCY323** Investments II 6
- **ACCY324** Financial Statement Analysis 6
- **ACCY335** Systems Analysis & Design in Accounting & Finance 6
- **ACCY353** Global Electronic Finance 6

Plus at least three of the following:

- **ACCY325** Banking Practice 6
- **ACCY327** Risk & Insurance 6
- **ACCY332** Advanced Information Systems in Accounting 6
- **ACCY351** International Business Finance 6
- **ACCY352** Critical Perspectives in Finance 6
- **ECON331** Financial Economics 8

**Major C-29**

In addition to the core subjects, the following subjects are required for the combined major in Electronic Commerce and Marketing:

- **ACCY102** Accounting IB 6
- **LAW100** Law in Society 6

Plus:

- **MARK217** Consumer Behaviour 6
- **MARK239** Information for Marketing Decisions 6
- **MARK270** Services Marketing 6
- **MARK319** Applied Marketing Research 6
- **MARK333** Advertising and Promotions Strategy 6
- **MARK344** Marketing Strategy 6
Plus two of the following

- MARK240  Marketing and Consumer Behaviour in East and South-East Asia  6
- MARK317  Business to Business Marketing  6
- MARK343  International Marketing  6
- MARK356  New Product Marketing  6
- MARK359  Sales Management  6
- MARK395  Tourism Marketing  6
- MARK397  Retail Marketing Management  6

Plus

- MGMT200  Management and Electronic Business  6
- COMM300  Innovation and Electronic Commerce  6
- MARK301  Marketing on the Internet  6

Plus five subjects from the following (at least two of these must be at 300 level):

- ACCY231  Information Systems in Accounting  6
- ACCY332  Advanced Information Systems in Accounting  8
- ACCY335  Systems Analysis and Design in Accounting and Finance  6
- ACCY353  Global Electronic Finance  6
- BUSS211  Systems Analysis and Design  6
- BUSS212  Database Management Systems  6
- BUSS311  Advanced Database Management Systems  6
- BUSS312  Distributed Information Systems  6
- CSCI213  Java Programming and the Internet  6
- CSCI214  Distributed Systems  6
- CSCI311  Software Process Management  6
- CSCI316  Network Computing  6
- CSCI361  Computer Security  6
- ECON230  Quantitative Analysis for Decision Making-I  6
- ECON312  Industrial Economics  6
- ECON319  Electronic Commerce and the Economics of Information  6
- IACT201  Information Technology and Citizens' Rights  6
- IACT303  World Wide Networking  6
- LAW210  Contract Law  8
- LAW331  Intellectual Property Law  6

Major C-36

In addition to the core subjects, the following subjects are required for the combined major in Marketing and Business Information Systems:

- LAW100  Law in Society  6

Plus at least one of the following

- ACCY102  Accounting IB  6
- ECON101  Macroeconomic Essentials for Business  6

Plus

- BUSS111  Business Programming I  6
- BUSS211  Systems Analysis and Design  6
- BUSS212  Database Management Systems  6
- BUSS214  Business Programming II  6
- BUSS215  Business Programming III  6
- MARK217  Consumer Behaviour  6
- MARK239  Information for Marketing Decisions  6
- MARK270  Services Marketing  6
- MARK319  Applied Marketing Research  6
- MARK333  Advertising and Promotions Strategy  6
- MARK344  Marketing Strategy  6
- BUSS311  Advanced Database Management Systems  6
- BUSS312  Distributed Information Systems  6
- BUSS316  Information Systems Development Methodologies  6
- BUSS317  Business Programming IV  6
### Course Structures

Plus two of the following

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
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<td>Marketing and Consumer Behaviour in East and South-East Asia</td>
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<tr>
<td>MARK301</td>
<td>Marketing on the Internet</td>
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<tr>
<td>MARK317</td>
<td>Business to Business Marketing</td>
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<td>MARK343</td>
<td>International Marketing</td>
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<td>MARK356</td>
<td>New Product Marketing</td>
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<td>MARK359</td>
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<td>MARK397</td>
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### Major C-37

In addition to the core subjects, the following subjects are required for the combined major in Management and Marketing:

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<td>ACCY221</td>
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Plus

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<th>Credits</th>
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<tr>
<td>MGMT102</td>
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<tr>
<td>MARK344</td>
<td>Marketing Strategy</td>
<td>6</td>
</tr>
<tr>
<td>MGMT398</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus two of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK240</td>
<td>Marketing and Consumer Behaviour in East and South-East Asia</td>
<td>6</td>
</tr>
<tr>
<td>MARK301</td>
<td>Marketing on the Internet</td>
<td>6</td>
</tr>
<tr>
<td>MARK317</td>
<td>Business to Business Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK343</td>
<td>International Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK356</td>
<td>New Product Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK359</td>
<td>Sales Management</td>
<td>6</td>
</tr>
<tr>
<td>MARK395</td>
<td>Tourism Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK397</td>
<td>Retail Marketing Management</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus three of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT215</td>
<td>Small Business Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT216</td>
<td>Operations Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT220</td>
<td>Organisational Studies</td>
<td>6</td>
</tr>
<tr>
<td>MGMT321</td>
<td>Occupational Health and Safety Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT322</td>
<td>Training and Development</td>
<td>6</td>
</tr>
<tr>
<td>MGMT332</td>
<td>Enterprise and Innovation</td>
<td>6</td>
</tr>
<tr>
<td>MGMT350</td>
<td>Total Quality Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT351</td>
<td>Business Ethics</td>
<td>6</td>
</tr>
<tr>
<td>MGMT389</td>
<td>International Business Management</td>
<td>6</td>
</tr>
</tbody>
</table>

### Major C-38

In addition to the core subjects, the following subjects are required for the combined major in Marketing and Economics:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM100</td>
<td>Introduction to Employment Relations</td>
<td>6</td>
</tr>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>ECON205</td>
<td>Macroeconomic Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON215</td>
<td>Microeconomic Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>MARK217</td>
<td>Consumer Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MARK239</td>
<td>Information for Marketing Decisions</td>
<td>6</td>
</tr>
<tr>
<td>MARK270</td>
<td>Services Marketing</td>
<td>6</td>
</tr>
</tbody>
</table>
Major C-39

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Accountancy and Marketing:

**ACCY102** Accounting IB 6
**LAW100** Law in Society 6
**ACCY201** Financial Accounting IIB 6
**ACCY202** Financial Accounting IIA 6
**ACCY211** Management Accounting II 6
**ACCY221** Business Finance I 6
**ACCY302** Financial Accounting III 12
**ACCY312** Management Accounting III 6
**MARK217** Consumer Behaviour 6
**MARK239** Information for Marketing Decisions 6
**MARK270** Services Marketing 6
**MARK319** Applied Marketing Research 6
**MARK240** Marketing and Consumer Behaviour in East and South-East Asia 6
**MARK301** Marketing on the Internet 6
**MARK317** Business to Business Marketing 6
**MARK343** International Marketing 6
**MARK356** New Product Marketing 6
**MARK359** Sales Management 6
**MARK395** Tourism Marketing 6
**MARK397** Retail Marketing Management 6

Plus six credit points from the 300 level subjects offered by the Department of Accounting and Finance.

Major C-40

In addition to the core subjects, the following subjects are required for the combined major in Legal Studies and Marketing:

**LAW100** Law in Society 6
**ACCY102** Accounting IB 6

Plus

**LAW210** Contract Law 6
**LAW364** Consumer Protection and Business Regulation 6
**MARK217** Consumer Behaviour 6
**MARK239** Information for Marketing Decisions 6
**MARK270** Services Marketing 6
**MARK319** Applied Marketing Research 6
Course Structures

MARK333  Advertising and Promotions Strategy  6
MARK344  Marketing Strategy  6

Plus at least three of the following

LAW302  Law of Business Organisations  6
LAW308  Administrative Law  6
LAW330  Law of Employment  6
LAW331  Intellectual Property Law  6
LAW334  Environmental Law  6
LAW335  Anti-Discrimination Law  6

Plus two of the following

MARK240  Marketing and Consumer Behaviour in East and South-East Asia  6
MARK301  Marketing on the Internet  6
MARK317  Business to Business Marketing  6
MARK343  International Marketing  6
MARK356  New Product Marketing  6
MARK359  Sales Management  6
MARK395  Tourism Marketing  6
MARK397  Retail Marketing Management  6

Major C-41

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Accountancy and Finance:

ACCY102  Accounting IIB  6
LAW100  Law in Society  6
ACCY201  Financial Accounting IIB  6
ACCY202  Financial Accounting IIA  6
ACCY211  Management Accounting II  6
ACCY221  Business Finance I  6
ACCY223  Investments I  6
ACCY231  Information Systems in Accounting  6
LAW210  Contract Law  6
ECON122  Quantitative Methods II  6

Plus at least one of the following

ACCY226  Financial Institutions  6
ACCY227  Finance in Small Business  6

Plus

ACCY302  Financial Accounting III  12
ACCY312  Management Accounting III  6
ACCY322  Business Finance II  6
ACCY323  Investments II  6
ACCY324  Financial Statement Analysis  6

Plus at least one of the following

ACCY325  Banking Practice  6
ACCY327  Risk and Insurance  6
ACCY351  International Business Finance  6
ACCY352  Critical Perspectives in Finance  6
ECON331  Financial Economics  8

Plus six credit points from the 300 level subjects offered by the Department of Accounting and Finance.
Major C-42

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Finance and Business information Systems:

**ACCY102** Accounting IB 6
**LAW100** Law in Society 6
**ACCY202** Financial Accounting IIA 6
**ACCY221** Business Finance I 6
**ACCY223** Investments I 6
**LAW210** Contract Law 6
**ECON122** Quantitative Methods II 6
**BUSS111** Business Programming I 6
**BUSS211** Systems Analysis and Design 6
**BUSS212** Database Management Systems 6
**BUSS214** Business Programming II 6
**BUSS215** Business Programming III 6

Plus at least one of the following

**ACCY226** Financial Institutions 6
**ACCY227** Finance in Small Business 6

Plus

**ACCY322** Business Finance II 6
**ACCY323** Investments II 6
**ACCY324** Financial Statement Analysis 6

Plus at least one of the following

**ACCY325** Banking Practice 6
**ACCY327** Risk and Insurance 6
**ACCY351** International Business Finance 6
**ACCY352** Critical Perspectives in Finance 6
**ECON331** Financial Economics 8

Plus

**BUSS311** Advanced Database Management Systems 6
**BUSS312** Distributed Information Systems 6
**BUSS316** Information System Development Methodologies 6
**BUSS317** Business Programming IV 6

Major C-43

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Finance and Economics:

**ACCY102** Accounting IB 6
**LAW100** Law in Society 6
**ECON101** Macroeconomic Essentials for Business 6
**ACCY202** Financial Accounting IIA 6
**ACCY221** Business Finance I 6
**ACCY223** Investments I 6
**LAW210** Contract Law 6
**ECON122** Quantitative Methods II 6
**ECON205** Macroeconomic Theory and Policy 8
**ECON215** Microeconomic Theory and policy 8

Plus at least one of the following

**ACCY226** Financial Institutions 6
**ACCY227** Finance in Small Business 6
Course Structures

ECON207 Economic Policy 8
ECON216 International Trade Theory and Policy 8
ECON221 Econometrics 8
ECON251 Industry and Trade in East Asia 8

Plus

ACCY322 Business Finance II 6
ACCY323 Investments II 6
ACCY324 Financial Statement Analysis 6
ECON301 Monetary Economics 8
ECON331 Financial Economics 8

Plus at least one of the following

ACCY325 Banking Practice 6
ACCY327 Risk and Insurance 6
ACCY351 International Business Finance 6
ACCY352 Critical Perspectives in Finance 6

Plus at least one additional 300-level subject from major C-3.

Major C-44

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Finance and Legal Studies:

ACCY102 Accounting IB 6
LAW100 Law in Society 6
LAW210 Contract Law 6
ACCY202 Financial Accounting IIA 6
ACCY221 Business Finance I 6
ACCY223 Investments I 6
ECON122 Quantitative Methods II 6

Plus one of the following

ACCY226 Financial Institutions 6
ACCY227 Finance in Small Business 6

Plus

ACCY322 Business Finance II 6
ACCY323 Investments II 6
ACCY324 Financial Statement Analysis 6

Plus at least one of the following

ACCY325 Banking Practice 6
ACCY327 Risk and Insurance 6
ACCY351 International Business Finance 6
ACCY352 Critical Perspectives in Finance 6
ECON331 Financial Economics 8

Plus three of the following

ACCY368 Insolvencies 6
LAW302 Law of Business Organisations 6
LAW315 Taxation Law 6
LAW330 Law of Employment 6

Plus three of the following

LAW308 Administrative Law 6
LAW331 Intellectual Property Law 6
LAW332 Labour Relations Law 6
LAW334 Environmental Law 6
LAW335 Anti-Discrimination Law 6
LAW352 Advanced Taxation Law 6
LAW364 Consumer Protection and Business Regulation 6
LAW366 Selected Issues in Legal Studies 6
**Major C-45**

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined major in Finance and Management:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
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</tr>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td>ACCY202</td>
<td>Financial Accounting IIA</td>
<td>6</td>
</tr>
<tr>
<td>ACCY221</td>
<td>Business Finance I</td>
<td>6</td>
</tr>
<tr>
<td>ACCY223</td>
<td>Investments I</td>
<td>6</td>
</tr>
<tr>
<td>LAW210</td>
<td>Contract Law</td>
<td>6</td>
</tr>
<tr>
<td>ECON122</td>
<td>Quantitative Methods II</td>
<td>6</td>
</tr>
<tr>
<td>MGMT102</td>
<td>Business Communications</td>
<td>6</td>
</tr>
<tr>
<td>MGMT201</td>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MGMT218</td>
<td>Competitive Analysis</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus at least one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY226</td>
<td>Financial Institutions</td>
<td>6</td>
</tr>
<tr>
<td>ACCY227</td>
<td>Finance in Small Business</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY322</td>
<td>Business Finance II</td>
<td>6</td>
</tr>
<tr>
<td>ACCY323</td>
<td>Investments II</td>
<td>6</td>
</tr>
<tr>
<td>ACCY324</td>
<td>Financial Statement Analysis</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus at least one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY325</td>
<td>Banking Practice</td>
<td>6</td>
</tr>
<tr>
<td>ACCY327</td>
<td>Risk and Insurance</td>
<td>6</td>
</tr>
<tr>
<td>ACCY351</td>
<td>International Business Finance</td>
<td>6</td>
</tr>
<tr>
<td>ACCY352</td>
<td>Critical Perspectives in Finance</td>
<td>6</td>
</tr>
<tr>
<td>ECON331</td>
<td>Financial Economics</td>
<td>8</td>
</tr>
</tbody>
</table>

Plus:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT314</td>
<td>Strategic Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT398</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus a further six credit points of 200-level subjects and twelve credit points of 300-level subjects offered by the Department of Management.

**Major C-46**

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined majors in Finance and Marketing:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
<td>6</td>
</tr>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td>ACCY202</td>
<td>Financial Accounting IIA</td>
<td>6</td>
</tr>
<tr>
<td>ACCY221</td>
<td>Business Finance I</td>
<td>6</td>
</tr>
<tr>
<td>ACCY223</td>
<td>Investments I</td>
<td>6</td>
</tr>
<tr>
<td>LAW210</td>
<td>Contract Law</td>
<td>6</td>
</tr>
<tr>
<td>ECON122</td>
<td>Quantitative Methods II</td>
<td>6</td>
</tr>
<tr>
<td>MARK217</td>
<td>Consumer Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MARK239</td>
<td>Information for Marketing Decisions</td>
<td>6</td>
</tr>
<tr>
<td>MARK270</td>
<td>Services Marketing</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus at least one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY226</td>
<td>Financial Institutions</td>
<td>6</td>
</tr>
<tr>
<td>ACCY227</td>
<td>Finance in Small Business</td>
<td>6</td>
</tr>
</tbody>
</table>
Course Structures

Plus

ACCY322  Business Finance II  6
ACCY323  Investments II  6
ACCY324  Financial Statement Analysis  6

Plus at least one of the following

ACCY325  Banking Practice  6
ACCY327  Risk and Insurance  6
ACCY351  International Business Finance  6
ACCY352  Critical Perspectives in Finance  6
ECON331  Financial Economics  8

Plus

MARK319  Applied Marketing Research  6
MARK333  Advertising and Promotions Strategy  6
MARK344  Marketing Strategy  6

Plus two of the following

MARK240  Marketing and Consumer Behaviour in East and South-East Asia  6
MARK301  Marketing on the Internet  6
MARK317  Business to Business Marketing  6
MARK343  International Marketing  6
MARK356  New Product Marketing  6
MARK359  Sales Management  6
MARK395  Tourism Marketing  6
MARK397  Retail Marketing Management  6

Major C-47

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined majors in Finance and Industrial Relations:

ACCY102  Accounting IB  6
COMM100  Introduction to Employment Relations  6
LAW100  Law in Society  6
ACCY202  Financial Accounting IIA  6
ACCY221  Business Finance I  6
ACCY223  Investments I  6
LAW210  Contract Law  6

Plus one of the following

ECON140  Industrial Relations B: Wage Determination  6
ECON240  Industrial Relations B: Wage Determination  8

Plus one of the following

ECON142  Industrial Relations A  6
ECON242  Industrial Relations A  8

Plus at least one of the following

ACCY226  Financial Institutions  6
ACCY227  Finance in Small Business  6

Plus

ACCY322  Business Finance II  6
ACCY323  Investments II  6
ACCY324  Financial Statement Analysis  6

Plus at least one of the following

ACCY325  Banking Practice  6
ACCY327  Risk and Insurance  6
ACCY351  International Business Finance  6
ACCY352  Critical Perspectives in Finance  6
ECON331 Financial Economics  8

Plus three of the following

COMM341 International and Comparative Employment Relations  8
ECON308 Labour Economics  8
ECON340 Comparative Studies in Industrial Relations  8
ECON348 Employers and Industrial Relations  8
ECON352 Negotiation, Advocacy and Bargaining  8

Plus at least one of the following

LAW330 Law of Employment  6
LAW332 Labour Relations Law  6
LAW335 Anti-discrimination Law  6
MGMT398 Human Resource Management  6

**Major C-48**

In addition to the core subjects, the following subjects are required for the combined major in Marketing and Industrial Relations:

COMM100 Introduction to Employment Relations  6
ECON101 Macroeconomic Essentials for Business  6
LAW100 Law in Society  6
MARK217 Consumer Behaviour  6
MARK239 Information for Marketing Decisions  6
MARK270 Services Marketing  6
MARK319 Applied Marketing Research  6
MARK333 Advertising and Promotions Strategy  6
MARK344 Marketing Strategy  6

Plus one of the following

ECON140 Industrial Relations B: Wage Determination  6
ECON240 Industrial Relations B: Wage Determination  8

Plus one of the following

ECON142 Industrial Relations A  6
ECON242 Industrial Relations A  8

Plus two of the following

MARK240 Marketing and Consumer Behaviour in East and South-East Asia  6
MARK301 Marketing on the Internet  6
MARK317 Business to Business Marketing  6
MARK343 International Marketing  6
MARK356 New Product Marketing  6
MARK359 Sales Management  6
MARK395 Tourism Marketing  6
MARK397 Retail Marketing Management  6

Plus three of the following

ECON308 Labour Economics  8
ECON340 Comparative Studies in Industrial Relations  8
COMM341 International and Comparative Employment Relations  8
ECON348 Employers and Industrial Relations  8
ECON352 Negotiation, Advocacy and Bargaining  8

Plus at least one of the following

LAW330 Law of Employment  6
LAW332 Labour Relations Law  6
LAW335 Anti-Discrimination Law  6
MGMT398 Human Resource Management  6
Course Structures

**Major C-49**

In addition to the core subjects, the following subjects are required for the combined major in Electronic Commerce and Management:

- ACCY102 Accounting IB 6
- LAW100 Law in Society 6
- MGMT102 Business Communications 6
- BUSS211 Systems Analysis and Design 6
- MGMT200 Management and E-Business 6
- MGMT201 Organisational Behaviour 6
- MGMT218 Competitive Analysis 6
- MGMT314 Strategic Management 6
- MGMT398 Human Resource Management 6
- COMM300 Innovation and Electronic Commerce 6
- MARK301 Marketing on the Internet 6

Plus four of the following, with at least two subjects at 300-Level

- ACCY221 Business Finance I 6
- ACCY231 Information Systems in Accounting 6
- ACCY353 Global Electronic Finance 6
- BUSS212 Database Management Systems 6
- BUSS312 Distributed Information Systems 6
- ECON319 Electronic Commerce & the Economics of Information 6
- IACT201 Information Technology and Citizens Rights 6
- IACT303 World Wide Networking 6

Plus six credit points from 200-level subjects and twelve credit points from 300-level subjects offered by the Department of Management.

**Major C-50**

In addition to the core subjects, the following subjects are required for the major in International Business:

- ACCY102 Accounting IB 6
- ECON101 Macroeconomic Essentials for Business 6
- ACCY241 International Financial Management 6
- COMM341 International and Comparative Employment Relations 8
- ECON216 International Trade Theory and Policy 8
- ECON251 Industry and Trade in South East Asia 8
- MARK343 International Marketing 6
- MGMT204 Government, Regulation and International Business 6
- MGMT301 Managing Across Cultures 6
- MGMT302 Business in Europe 6
- MGMT314 Strategic Management 6
- MGMT389 International Business Management 6

**Major C-51**

In addition to the core subjects, the following subjects are required for the combined majors in International Business and Management:

- ACCY102 Accounting IB 6
- ECON101 Macroeconomic Essentials for Business 6
- ACCY241 International Financial Management 6
- COMM341 International & Comparative Employment Relations 8
- ECON216 International Trade Theory and Policy 8
- ECON251 Industry and Trade in South East Asia 8
- MARK343 International Marketing 6
- MGMT102 Business Communications 6
- MGMT201 Organisational Behaviour 6
- MGMT204 Government, Regulation and International Business 6
- MGMT216 Operations Management 6
- MGMT218 Competitive Analysis 6
- MGMT398 Human Resource Management 6
Major C-52

In addition to the core subjects, the following subjects are required for the combined majors in International Business and Marketing:

- ACCY102 Accounting IB 6
- ECON101 Macroeconomic Essentials for Business 6
- ACCY241 International Financial Management 6
- ACCY212 Accounting for Marketing Decisions 6
- COMM341 International & Comparative Employment Relations 8
- ECON216 International Trade Theory and Policy 8
- ECON251 Industry & Trade in South East Asia 8
- MARK217 Consumer Behaviour 6
- MARK239 Information for Marketing Decisions 6
- MARK270 Services Marketing 6
- MARK319 Applied Marketing Research 6
- MARK333 Advertising and Promotions Strategy 6
- MARK343 International Marketing 6
- MARK344 Marketing Strategy 6

Plus one of the following:

- MARK240 Marketing and Consumer Behaviour in East and South-East Asia 6
- MARK301 Marketing on the Internet 6
- MARK317 Business to Business Marketing 6
- MARK356 New Product Marketing 6
- MARK359 Sales Management 6
- MARK395 Tourism Marketing 6
- MARK397 Retail Marketing Management 6

Plus

- MGMT204 Government, Regulation and International Business 6
- MGMT301 Managing Across Cultures 6
- MGMT302 Business in Europe 6
- MGMT314 Strategic Management 6
- MGMT389 International Business Management 6

Major C-53

In addition to the core subjects, the following subjects are required for the combined majors in International Business and Languages:

- ACCY102 Accounting IB 6
- ECON101 Macroeconomic Essentials for Business 6
- ACCY241 International Financial Management 6
- COMM341 International & Comparative Employment Relations 8
- ECON216 International Trade Theory and Policy 8
- ECON251 Industry & Trade in South East Asia 8
- MARK343 International Marketing 6
- MGMT204 Government, Regulation and International Business 6
- MGMT301 Managing Across Cultures 6
- MGMT302 Business in Europe 6
- MGMT314 Strategic Management 6
- MGMT389 International Business Management 6

Plus 36cp of an approved language sequence from the Faculty of Arts.
Course Structures

Major C-54

In addition to the core subjects, the following subjects are required for the combined majors in International Business and Economics:

- ACCY102 Accounting IB 6
- ECON101 Macroeconomic Essentials for Business 6
- ACCY241 International Financial Management 6
- COMM341 International & Comparative Employment Relations 8
- ECON205 Macroeconomic Theory & Policy 8
- ECON215 Microeconomic Theory & Policy 8
- ECON216 International Trade Theory and Policy 8
- ECON251 Industry & Trade in South East Asia 8
- MARK343 International Marketing 6
- MGMT204 Government, Regulation and International Business 6
- MGMT301 Managing Across Cultures 6
- MGMT302 Business in Europe 6
- MGMT314 Strategic Management 6
- MGMT389 International Business Management 6

Plus twenty four credit points of 300 Level Economic subjects listed in major C-3.

Major C-55

In addition to the core subjects, the following subjects are required for the combined majors in International Business and Business Information Systems:

- ACCY102 Accounting IB 6
- ACCY241 International Financial Management 6
- BUSS111 Business Programming I 6
- BUSS211 Systems Analysis and Design 6
- BUSS212 Database Management Systems 6
- BUSS214 Business Programming II 6
- BUSS215 Business Programming III 6
- BUSS311 Advanced Database Management Systems 6
- BUSS312 Distributed Information Systems 6
- BUSS316 Information Systems Development Methodologies 6
- BUSS317 Business Programming IV 6
- COMM341 International and Comparative Employment Relations 8
- ECON216 International Trade Theory and Policy 8
- ECON251 Industry and Trade in South East Asia 8
- MARK343 International Marketing 6
- MGMT204 Government, Regulation and International Business 6
- MGMT301 Managing Across Cultures 6
- MGMT302 Business in Europe 6
- MGMT314 Strategic Management 6
- MGMT389 International Business Management 6

Major C-56

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined majors in International Business and Accountancy:

- ACCY102 Accounting IB 6
- LAW100 Law in Society 6
- LAW210 Contract Law 6
- ACCY202 Financial Accounting IIA 6
- ACCY241 International Financial Management 6
- ACCY201 Financial Accounting IIB 6
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY211</td>
<td>Management Accounting II</td>
<td>6</td>
</tr>
<tr>
<td>ACCY231</td>
<td>Information Systems in Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ECON216</td>
<td>International Trade Theory &amp; Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON251</td>
<td>Industry and Trade in South East Asia</td>
<td>8</td>
</tr>
<tr>
<td>MGMT204</td>
<td>Government, Regulation and International Business</td>
<td>6</td>
</tr>
<tr>
<td>MGMT301</td>
<td>Managing Across Cultures</td>
<td>6</td>
</tr>
<tr>
<td>MGMT302</td>
<td>Business in Europe</td>
<td>6</td>
</tr>
<tr>
<td>MGMT314</td>
<td>Strategic Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT389</td>
<td>International Business Management</td>
<td>6</td>
</tr>
<tr>
<td>ACCY312</td>
<td>Management Accounting III</td>
<td>6</td>
</tr>
<tr>
<td>ACCY302</td>
<td>Financial Accounting III</td>
<td>12</td>
</tr>
</tbody>
</table>

Plus six credit points from the 300 level subjects offered by the Department of Accounting and Finance.

**Major C-57**

The Head of the Department of Accounting and Finance, in the case of all course structures relating to Accountancy or Finance, may approve a candidate enrolling in a subject with a value of at least 6 credit points from the General Schedule in place of one of the Accountancy or Finance subjects of 6 credit points listed for Accountancy C-2 or Finance C-9.

In addition to the core subjects, the following subjects are required for the combined majors in International Business and Finance:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
<td>6</td>
</tr>
<tr>
<td>ECON122</td>
<td>Quantitative Methods II</td>
<td>6</td>
</tr>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>ACCY202</td>
<td>Financial Accounting IIA</td>
<td>6</td>
</tr>
<tr>
<td>ACCY221</td>
<td>Business Finance I</td>
<td>6</td>
</tr>
<tr>
<td>ACCY223</td>
<td>Investments I</td>
<td>6</td>
</tr>
<tr>
<td>ACCY228</td>
<td>Financial Institutions</td>
<td>6</td>
</tr>
<tr>
<td>ECON216</td>
<td>International Trade Theory &amp; Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON251</td>
<td>Industry and Trade in South East Asia</td>
<td>8</td>
</tr>
<tr>
<td>MGMT204</td>
<td>Government, Regulation and International Business</td>
<td>6</td>
</tr>
<tr>
<td>MGMT301</td>
<td>Managing Across Cultures</td>
<td>6</td>
</tr>
<tr>
<td>MGMT302</td>
<td>Business in Europe</td>
<td>6</td>
</tr>
<tr>
<td>MGMT314</td>
<td>Strategic Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT389</td>
<td>International Business Management</td>
<td>6</td>
</tr>
<tr>
<td>ACCY322</td>
<td>Business Finance II</td>
<td>6</td>
</tr>
<tr>
<td>ACCY323</td>
<td>Investments II</td>
<td>6</td>
</tr>
<tr>
<td>ACCY324</td>
<td>Financial Statement Analysis</td>
<td>6</td>
</tr>
<tr>
<td>ACCY351</td>
<td>International Business Finance</td>
<td>6</td>
</tr>
</tbody>
</table>

**Major C-58**

In addition to the core subjects, the following subjects are required for the combined major in Electronic Commerce and Accountancy:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
<td>6</td>
</tr>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td>ACCY201</td>
<td>Financial Accounting IIB</td>
<td>6</td>
</tr>
<tr>
<td>ACCY202</td>
<td>Financial Accounting IIA</td>
<td>6</td>
</tr>
<tr>
<td>ACCY211</td>
<td>Management Accounting II</td>
<td>6</td>
</tr>
<tr>
<td>ACCY221</td>
<td>Business Finance I</td>
<td>6</td>
</tr>
<tr>
<td>ACCY231</td>
<td>Information Systems in Accounting</td>
<td>6</td>
</tr>
<tr>
<td>LAW210</td>
<td>Contract Law</td>
<td>6</td>
</tr>
<tr>
<td>ACCY302</td>
<td>Financial Accounting III</td>
<td>12</td>
</tr>
<tr>
<td>ACCY312</td>
<td>Management Accounting III</td>
<td>6</td>
</tr>
<tr>
<td>ACCY332</td>
<td>Advanced Information Systems in Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ACCY335</td>
<td>Systems Analysis and Design in Accounting and Finance</td>
<td>6</td>
</tr>
<tr>
<td>ACCY353</td>
<td>Global Electronic Finance</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus twelve credit points from the 300 level subjects offered by the Department of Accounting and Finance. LAW315 Taxation Law may be substituted for six of these credit points.
Course Structures

**Major C-59**
In addition to the core subjects, the following subjects are required for the combined major in Electronic Commerce and Business Information Systems:

- **BUSS102** Computer Systems 6
- **BUSS111** Business Programming I 6
- **ECON101** Macroeconomic Essentials for Business 6
- **LAW100** Law in Society 6
- **BUSS211** Systems Analysis and Design 6
- **BUSS212** Database Management Systems 6
- **BUSS214** Business Programming II 6
- **BUSS215** Business Programming III 6
- **ECON230** Quantitative Analysis for Decision Making II 6
- **IACT201** Information Technology and Citizens Rights 6
- **MGMT200** Management and Electronic Business 6
- **BUSS311** Advanced Database Management Systems 6
- **BUSS312** Distributed Information Systems 6
- **BUSS316** Information Systems Development Methodologies 6
- **BUSS317** Business Programming IV 6
- **ECON319** Electronic Commerce and the Economics of Information 6
- **IACT303** World Wide Networking 6
- **MARK301** Marketing on the Internet 6

**Major C-60**
In addition to the core subjects, the following subjects are required for the combined major in Electronic Commerce and Economics:

- **ACCY102** Accounting IB 6
- **BUSS111** Introductory Business Computing 6
- **ECON101** Macroeconomic Essentials for Business 6
- **ECON205** Macroeconomic Theory and Policy 8
- **ECON215** Microeconomic Theory and Policy 8
- **ECON228** Quantitative Analysis for Decision Making 8
- **IACT201** Information Technology and Citizens' Rights 6
- **COMM300** Innovation and Electronic Commerce 6
- **ECON312** Industrial Economics 8
- **ECON319** Electronic Commerce and the Economics of Information 6

Plus at least four of the following:

- **ACCY221** Business Finance I 6
- **ACCY231** Information Systems in Accounting 6
- **BUSS211** Systems Analysis and Design 6
- **MGMT200** Management and Electronic Business 6
- **MGMT202** Management of Change 6
- **MGMT205** Recruitment and Selection 6
- **MGMT206** Managing Human Resources 6

Plus one 300 level economics subject from major C-3.

Plus one 200 or 300 level economics subject from major C-3.

**Major C-61**
In addition to the core subjects, the following subjects are required for the major in Human Resource Management:

- **COMM100** Introduction to Employment Relations 6
- **COMM341** International and Comparative Employment Relations 8
- **LAW100** Law in Society 6
- **MGMT102** Business Communications 6
- **MGMT201** Organisational Behaviour 6
- **MGMT202** Management of Change 6
- **MGMT205** Recruitment and Selection 6
- **MGMT206** Managing Human Resources 6
MGMT220 Organisational Studies 6
MGMT301 Managing Across Cultures 6
MGMT314 Strategic Management 6
MGMT321 Occupational Health and Safety Management 6
MGMT322 Training and Development 6

**Major C-62**

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and Accountancy:

- ACCY102 Accounting IB 6
- COMM100 Introduction to Employment Relations 6
- LAW100 Law in Society 6
- LAW210 Contract Law 6
- ACCY201 Financial Accounting IIIB 6
- ACCY202 Financial Accounting IIA 6
- ACCY211 Management Accounting II 6
- ACCY231 Information Systems in Accounting 6
- ACCY302 Financial Accounting III 12
- ACCY312 Management Accounting III 6
- COMM341 International and Comparative Employment Relations 8
- MGMT201 Organisational Behaviour 6
- MGMT205 Recruitment and Selection 6
- MGMT206 Managing Human Resources 6
- MGMT220 Organisational Studies 6
- MGMT314 Strategic Management 6
- MGMT321 Occupational Health and Safety Management 6
- MGMT322 Training and Development 6

Plus six credit points from the 300 Level Subjects offered by the Department of Accounting and Finance.

**Major C-63**

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and Business Information Systems:

- ACCY102 Accounting IB 6
- COMM100 Introduction to Employment Relations 6
- BUSS111 Business Programming I 6
- BUSS211 Systems Analysis and Design 6
- BUSS212 Database Management Systems 6
- BUSS214 Business Programming II 6
- BUSS215 Business Programming III 6
- BUSS311 Advanced Database Management Systems 6
- BUSS312 Distributed Information Systems 6
- BUSS316 Information Systems Development Methodologies 6
- BUSS317 Business Programming IV 6
- COMM341 International and Comparative Employment Relations 8
- MGMT201 Organisational Behaviour 6
- MGMT205 Recruitment and Selection 6
- MGMT206 Managing Human Resources 6
- MGMT220 Organisational Studies 6
- MGMT314 Strategic Management 6
- MGMT321 Occupational Health and Safety Management 6
- MGMT322 Training and Development 6
Major C-64

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and Electronic Commerce:

- COMM100 Introduction to Employment Relations 6
- LAW100 Law in Society 6
- BUSS211 Systems Analysis and Design 6
- COMM300 Innovation and Electronic-Commerce 6
- COMM341 International and Comparative Employment Relations 8
- MARK301 Marketing on the Internet 6
- MGMT200 Management and E-Business 6
- MGMT201 Organisational Behaviour 6
- MGMT202 Management of Change 6
- MGMT205 Recruitment and Selection 6
- MGMT206 Managing Human Resources 6
- MGMT220 Organisational Studies 6
- MGMT314 Strategic Management 6
- MGMT321 Occupational Health and Safety Management 6
- MGMT322 Training and Development 6

Plus three of the following:

- ACCY231 Information Systems in Accounting 6
- ACCY353 Global Electronic Finance 6
- BUSS212 Database Management Systems 6
- BUSS312 Distributed Information Systems 6
- ECON319 Electronic Commerce and the Economics of Information 6
- IACT201 Information Technology and Citizens Rights 6
- IACT303 World Wide Networking 6

Major C-65

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and Finance:

- ACCY102 Accounting IB 6
- COMM100 Introduction to Employment Relations 6
- ECON122 Quantitative Methods II 6
- ACCY202 Financial Accounting IIA 6
- ACCY221 Business Finance I 6
- ACCY223 Investments I 6
- ACCY226 Financial Institutions 6
- ACCY322 Business Finance II 6
- ACCY323 Investments II 6
- ACCY324 Financial Statement Analysis 6
- ACCY351 International Business Finance 6
- COMM341 International and Comparative Employment Relations 8
- MGMT201 Organisational Behaviour 6
- MGMT205 Recruitment and Selection 6
- MGMT206 Managing Human Resources 6
- MGMT220 Organisational Studies 6
- MGMT314 Strategic Management 6
- MGMT321 Occupational Health and Safety Management 6
- MGMT322 Training and Development 6

Plus six credit points from the 300 Level Subjects offered by the Department of Accounting and Finance.
### Major C-66

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and Industrial Relations:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM100</td>
<td>Introduction to Employment Relations</td>
<td>6</td>
</tr>
<tr>
<td>COMM341</td>
<td>International and Comparative Employment Relations</td>
<td>8</td>
</tr>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>ECON140</td>
<td>Industrial Relations B</td>
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</tr>
<tr>
<td>ECON142</td>
<td>Industrial Relations A</td>
<td>6</td>
</tr>
<tr>
<td>ECON348</td>
<td>Employers and Industrial Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON352</td>
<td>Negotiation, Advocacy and Bargaining</td>
<td>8</td>
</tr>
<tr>
<td>LAW330</td>
<td>Law of Employment</td>
<td>6</td>
</tr>
<tr>
<td>LAW332</td>
<td>Labour Relations Law</td>
<td>6</td>
</tr>
<tr>
<td>MGMT201</td>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MGMT205</td>
<td>Recruitment and Selection</td>
<td>6</td>
</tr>
<tr>
<td>MGMT206</td>
<td>Managing Human Resources</td>
<td>6</td>
</tr>
<tr>
<td>MGMT220</td>
<td>Organisational Studies</td>
<td>6</td>
</tr>
<tr>
<td>MGMT301</td>
<td>Managing Across Cultures</td>
<td>6</td>
</tr>
<tr>
<td>MGMT314</td>
<td>Strategic Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT321</td>
<td>Occupational Health and Safety Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT322</td>
<td>Training and Development</td>
<td>6</td>
</tr>
</tbody>
</table>

### Major C-67

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and International Business:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY102</td>
<td>Accounting IB</td>
<td>6</td>
</tr>
<tr>
<td>ACCY241</td>
<td>International Financial Management</td>
<td>6</td>
</tr>
<tr>
<td>COMM100</td>
<td>Introduction to Employment Relations</td>
<td>6</td>
</tr>
<tr>
<td>COMM341</td>
<td>International and Comparative Employment Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>ECON216</td>
<td>International Trade Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON251</td>
<td>Industry and Trade in South East Asia</td>
<td>8</td>
</tr>
<tr>
<td>MGMT201</td>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MGMT204</td>
<td>Government, Regulation and International Business</td>
<td>6</td>
</tr>
<tr>
<td>MGMT205</td>
<td>Recruitment and Selection</td>
<td>6</td>
</tr>
<tr>
<td>MGMT206</td>
<td>Managing Human Resources</td>
<td>6</td>
</tr>
<tr>
<td>MGMT220</td>
<td>Organisational Studies</td>
<td>6</td>
</tr>
<tr>
<td>MGMT301</td>
<td>Managing Across Cultures</td>
<td>6</td>
</tr>
<tr>
<td>MGMT302</td>
<td>Business in Europe</td>
<td>6</td>
</tr>
<tr>
<td>MGMT314</td>
<td>Strategic Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT321</td>
<td>Occupational Health and Safety Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT322</td>
<td>Training and Development</td>
<td>6</td>
</tr>
<tr>
<td>MGMT389</td>
<td>International Business Management</td>
<td>6</td>
</tr>
</tbody>
</table>

### Major C-68

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and Economics:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM100</td>
<td>Introduction to Employment Relations</td>
<td>6</td>
</tr>
<tr>
<td>COMM341</td>
<td>International and Comparative Employment Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>ECON205</td>
<td>Macroeconomic Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON215</td>
<td>Microeconomic Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON216</td>
<td>International Trade Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON251</td>
<td>Industry and Trade in South East Asia</td>
<td>8</td>
</tr>
<tr>
<td>MGMT201</td>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MGMT205</td>
<td>Recruitment and Selection</td>
<td>6</td>
</tr>
<tr>
<td>MGMT206</td>
<td>Managing Human Resources</td>
<td>6</td>
</tr>
</tbody>
</table>
Course Structures

MGMT220 Organisational Studies 6
MGMT314 Strategic Management 6
MGMT321 Occupational Health and Safety Management 6
MGMT322 Training and Development 6
MGMT389 International Business Management 6

Plus twenty four credit points of 300 Level Economics subjects from Major C-3.

Major C-69

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and Management:

ACCY102 Accounting IB 6
COMM100 Introduction to Employment Relations 6
COMM341 International and Comparative Employment Relations 8
LAW100 Law in Society 6
MGMT102 Business Communications 6
MGMT201 Organisational Behaviour 6
MGMT202 Management of Change 6
MGMT205 Recruitment and Selection 6
MGMT206 Managing Human Resources 6
MGMT216 Operations Management 6
MGMT218 Competitive Analysis 6
MGMT220 Organisational Studies 6
MGMT301 Managing Across Cultures 6
MGMT314 Strategic Management 6
MGMT321 Occupational Health and Safety Management 6
MGMT322 Training and Development 6
MGMT389 International Business Management 6

Major C-70

In addition to the core subjects, the following subjects are required for the combined major in Human Resource Management and Marketing:

ACCY102 Accounting IB 6
COMM100 Introduction to Employment Relations 6
COMM341 International and Comparative Employment Relations 8
MARK217 Consumer Behaviour 6
MARK239 Information for Marketing Decisions 6
MARK270 Services Marketing 6
MARK319 Applied Marketing Research 6
MARK333 Advertising and Promotions Strategy 6
MARK343 International Marketing 6
MARK344 Marketing Strategy 6

Plus one of the following:
MARK240 Marketing and Consumer Behaviour in East and South East Asia 6
MARK301 Marketing on the Internet 6
MARK317 Business to Business Marketing 6
MARK356 New Product Marketing 6
MARK359 Sales Management 6
MARK395 Tourism Marketing 6
MARK397 Retail Marketing Management 6

Plus the following:
MGMT201 Organisational Behaviour 6
MGMT205 Recruitment and Selection 6
MGMT206 Managing Human Resources 6
MGMT220 Organisational Studies 6
MGMT301 Managing Across Cultures 6
MGMT314 Strategic Management 6
Major C-71

In addition to the core subjects, the following subjects are required for the major in Financial Planning:

- ACCY102  Accounting IB  6
- LAW100  Law in Society  6
- ECON101  Macroeconomic Essentials for Business  6
- ACCY221  Business Finance I  6
- ACCY223  Investments I  6
- LAW210  Contract Law  6
- ACCY226  Financial Institutions  6
- ACCY228  Tax Planning  6
- ACCY324  Financial Statement Analysis  6
- ACCY327  Risk and Insurance  6
- ACCY328  Retirement and Estate Planning  6
- ACCY329  Real Estate Planning  6

Plus 36 credit points from the General Schedule, no more than 18 of which may be at 100 level.

Major C-72

In addition to the core subjects the following subjects are required for the combined major of International Business and Legal Studies:

- ACCY102  Accounting IB  6
- ACCY241  International Financial Management  6
- COMM341  International & Comparative Employment Relations  8
- ECON101  Macroeconomic Essentials for Business  6
- ECON216  International Trade Theory and Policy  8
- ECON251  Industry Trade in South East Asia  8
- LAW100  Law in Society  6
- LAW210  Contract Law  6
- LAW302  Law of Business Organisations  6
- LAW315  Taxation Law  6
- LAW330  Law of Employment  6
- LAW343  International Law  6
- MARK343  International Marketing  6
- MGMT301  Managing Across Cultures  6
- MGMT302  Business In Europe  6
- MGMT389  International Business Management  6

Plus at least two of the following

- LAW308  Administrative Law  6
- LAW316  Occupational Health & Safety Law  6
- LAW317  E-Commerce Law  6
- LAW331  Intellectual Property Law  6
- LAW332  Labour Relations Law  6
- LAW335  Anti-Discrimination Law  6
- LAW338  International Trade Law  6
- LAW360  Foreign Investment Law in the Peoples Republic of China  6
- LAW366  Selected Issues in Legal Studies  6
- LAW380  Law for Environmental Managers  8
Major C-73

In addition to the core subjects the following subjects are required for the combined major of International Business and E-Commerce:

- ACCY102 Accounting IB
- ACCY241 International Financial Management
- BUSS211 Systems Analysis & Design
- COMM300 Innovation & E-Commerce
- COMM341 International & Comparative Employment Relations
- ECON101 Macroeconomic Essentials for Business
- ECON216 International Trade Theory and Policy
- ECON251 Industry Trade in South East Asia
- MARK301 Marketing on the Internet
- MARK343 International Marketing
- MGMT200 Management & E-Business
- MGMT204 Government Regulation and International Business
- MGMT301 Managing Across Cultures
- MGMT302 Business In Europe
- MGMT389 International Business Management

Plus at least two of the following:

- ACCY231 Information Systems in Accounting
- ACCY353 Global Electronic Finance
- BUSS212 Database Management Systems
- BUSS312 Distributed Information Systems
- ECON319 Electronic-Commerce & the Economics of Information
- IACT201 Information Technology and Citizens Rights
- ICAT303 Worldwide Networking

Major C-74

In addition to the core subjects the following subjects are required for the combined major of Human Resource Management and Legal Studies:

- COMM100 Introduction to Employment Relations
- LAW100 Law in Society
- LAW210 Contract Law
- MGMT102 Business Communications
- MGMT201 Organisational Behaviour
- MGMT202 Management of Change
- MGMT205 Recruitment and Selection
- MGMT206 Managing Human Resources
- MGMT220 Organisational Studies
- MGMT301 Managing Across Cultures
- MGMT314 Strategic Management
- MGMT321 Occupational Health and Safety Management
- MGMT322 Training and Development

Plus at least four of the following:

- LAW302 Law of Business Organisations
- LAW316 Occupational Health & Safety Law
- LAW330 Law of Employment
- LAW332 Labour Relations Law
- LAW335 Anti-Discrimination Law

Plus at least two of the following:

- LAW308 Administrative Law
- LAW315 Taxation Law
- LAW317 E-Commerce Law
- LAW331 Intellectual Property Law
- LAW366 Selected Issues in Legal Studies
Bachelor of Commerce (Honours)

The Bachelor of Commerce (Honours) is a one year, full time or equivalent part time course of 48 credit points.

General Admission rules

To be admitted to the Bachelor of Commerce (Honours) program, a candidate must satisfy Rule 103 (5), (6), (7), (8) of the Bachelor Degree Rules.

Majors

A Bachelor of Commerce (Honours) is available in the following majors:
- Accountancy
- Business Information Systems
- Economics
- Employment Relations
- Finance
- Financial Planning (available from 2003)
- Human Resource Management
- Industrial Relations
- International Business
- Management
- Marketing

Combined majors are also available.

To qualify for the award of Bachelor of Commerce (Honours) a candidate must satisfy Rule 112 of the Bachelor Degree Rules.

Bachelor of Mathematics & Finance

Refer to the Faculty of Informatics section for details of this degree program.

Bachelor of Mathematics & Economics

Refer to the Faculty of Informatics section for details of this degree program.

Double Degrees with Bachelor of Commerce

Students may combine their Commerce studies with studies in a number of other faculties and qualify for the award of two degrees. Double degrees are designed for students to complete two degrees in less time than it would normally take.

- Students must seek advice and approval from both Faculties before enrolment.
- Candidates must satisfy the entry requirements of both the degree programs.
- Double degrees, where both degrees are normally of three years duration will be a minimum of 216 credit points and take a minimum of four years to complete.
- Double degrees, where one of the degrees is normally of four years duration will be a minimum of 264 credit points and take a minimum of five years to complete.
- Students may be given exemptions where equivalences exist between subjects.

Bachelor of Commerce

For all double degrees, candidates are required to complete subjects from the Commerce Schedule, including core subjects and subjects to satisfy the requirements of one of the Commerce majors. Candidates need to be aware that the number of credit points required by each major varies.

And one of the following:

Bachelor of Arts

To qualify for the double degree Bachelor of Arts - Bachelor of Commerce candidates must fulfil the following:

i) complete at least 72 credit points, including a major study, for subjects listed in the Arts schedule, and including at least 36 credit points for subjects offered by member Units of the Faculty of Arts;

ii) not more than 96 credit points for 100-level subjects may be undertaken for both degrees;
ii) the Arts major study and the Commerce major are to be chosen from two different disciplines.

Or

**Bachelor of Creative Arts**

All students undertaking the Bachelor of Creative Arts - Bachelor of Commerce Double Degree must:

i) complete a major study for the Bachelor of Creative Arts comprising 108 credit points of compulsory subjects as listed in the Creative Arts Schedule

ii) undertake, where necessary, elective subjects to ensure a total of 216 credit points have been completed.

Or

**Bachelor of Engineering - Faculty of Engineering or Faculty of Informatics**

For the award of Bachelor of Engineering - Bachelor of Commerce, a minimum of 264 credit points have to be completed.

All students undertaking the Bachelor of Engineering - Bachelor of Commerce Double Degree must complete

i) a total of at least 174 credit points of engineering subjects made up of the Engineering core or compulsory subjects and one of the engineering majors. The minimum of 174 credit points will be exceeded by some engineering program requirements.

ii) where required, at least 12 weeks of approved professional engineering experience during the course. Exemptions may be given to part-time candidates who are in approved full-time engineering employment.

Or

**Bachelor of Laws**

To qualify for the award of the degrees of Bachelor of Commerce and Bachelor of Laws a candidate must complete all compulsory subjects prescribed in the Law Schedule AND elective subjects prescribed in the Law Schedule, having a value of 56 credit points.

Notes:

1. The Bachelor of Commerce major in Legal Studies is not available to students undertaking this double degree.

2. Where the Commerce Schedule contains any subjects with the prefix LAW, the equivalent LLB subject may be substituted.

3. Students wishing to be considered for the award of honours in Law MUST complete either LLB313 Legal Research Project A or LLB314 Legal Research Project B.

Or

**Bachelor of Science - Faculty of Science**

All students undertaking the Bachelor of Science - Bachelor of Commerce Double Degree must complete 90 credit points of subjects from the Science Schedule, including a Science major study.

Any extra credit points required to achieve a double degree total of 216 credit points, additional to the Commerce and Science Requirements specified above, may be selected from the Commerce, Science or General Schedule.

Or

**Bachelor of Science - Faculty of Health and Behavioural Science**

For the Bachelor of Science students will be required to complete subjects from the Health and Behavioural Sciences Schedule approved by the Faculty of Health and Behavioural Sciences.

Any additional subjects needed to complete a minimum of 216 credit points should be selected from the Health and Behavioural Sciences Schedule, the Commerce Schedule or the Science Schedule.

Or

**Bachelor of Psychology - Faculty of Health & Behavioural Science**

For the award of Bachelor Psychology - Bachelor of Commerce, a total of 264 credit points have to be completed.

This double degree fulfills the requirements needed to become a registered psychologist.

For the Bachelor of Psychology, students will be required to complete

i) the 150 credit points of psychology subject requirements for the Bachelor of Psychology.

ii) Any additional subjects needed to complete the required 264 credit points should be selected from either the Health and Behavioural Sciences Schedule or the Commerce Schedule.

Further information, including details of all these double degrees can be obtained by contacting the relevant Faculty Offices.
Commerce Majors available in other degree programs

Selected Commerce majors are also available through the following programs:

Bachelor of Arts (Accountancy) - as a second major
Bachelor of Arts (Economics)
Bachelor of Arts (Industrial Relations)
Bachelor of Arts (Management) - as a second major
Bachelor of Arts (Marketing) - as a second major

Refer to the Faculty of Arts section for details of these programs.

Bachelor of Science (Human Resource Management)

Students wishing to specialise in Human Resource Management in the BSc degree are required to complete a double major. The first major must be chosen from the Science Schedule.

To qualify for a major study in Human Resource Management in the Bachelor of Science, students must complete successfully the following subjects:

- COMM100 Introduction to Employment Relations 6
- COMM341 International and Comparative Employment Relations 8
- MGMT110 Introduction to Management 6
- MGMT201 Organisational Behaviour 6
- MGMT205 Recruitment and Selection 6
- MGMT206 Managing Human Resources 6
- MGMT301 Managing Across Cultures 6
- MGMT314 Strategic Management 6
- MGMT322 Training and Development 6

Bachelor of Science (Management)

Students wishing to specialise in Management in the BSc degree are required to complete a double major. The first major must be chosen from the Science Schedule.

To qualify for a major study in Management in the Bachelor of Science, students must complete successfully the following subjects:

- ACCY100 Accounting IA 6
- ACCY102 Accounting IB 6
- MGMT102 Business Communications 6
- MGMT110 Introduction to Management 6
- Either MGMT201 Organisational Behaviour 6
  or PSYC351 Industrial and Organisational Psychology 6
- Plus MARK101 Introduction to Marketing 6
- MGMT314 Strategic Management 6
- MGMT398 Human Resource Management 6

Plus 12 credit points from 300-level subjects offered by the Department of Management
Course Structures

Bachelor of Science (Marketing)
Bachelor of Mathematics (Marketing)
Bachelor of Information and Communication Technology (Marketing)

Students wishing to specialise in Marketing in any of the above degree are required to complete a double major. The first major must be chosen from the relevant Schedule.

To qualify for a major study in Marketing in any of the above degrees, students must complete successfully the following subjects:

- MARK101 Introduction to Marketing 6
- MARK217 Consumer Behaviour 6
- MARK239 Information for Marketing Decisions 6
- MARK319 Applied Marketing Research 6
- MARK333 Advertising and Promotions Strategy 6
- MARK344 Marketing Strategy 6

Plus 12 credit points from the following:

- MARK240 Marketing and Consumer Behaviour in East and South East Asia 6
- MARK270 Services Marketing 6
- MARK301 Marketing on the Internet 6
- MARK317 Business to Business Marketing 6
- MARK343 International Marketing 6
- MARK356 New Product Marketing 6
- MARK359 Sales Management 6
- MARK395 Tourism Marketing 6
- MARK397 Retail Marketing Management 6
ACCOUNTING AND FINANCE

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Contact Hours</th>
<th>Co-requisites</th>
<th>Exclusions</th>
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<th>Assessment</th>
<th>Contact Hours</th>
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<th>Subject Description</th>
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<tr>
<td>ACCY100</td>
<td>Accounting IA</td>
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<td>ACCY100</td>
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<td>Accounting IA is an introduction to the processes of accounting and financial management and is concerned with money, records of money, calculations of income and wealth; financial decision making; the information that can be provided by an accounting system as a basis for decision making and the techniques of processing such information.</td>
<td>On successful completion, students will be able to: 1. describe the role of accounting information in decision making; 2. analyse basic accounting issues and communicate ideas effectively to others both orally and in writing; 3. use computer spreadsheets to solve simple accounting problems; 4. explain the role of ethics in business decision making; 5. use accounting information to assess profitability and financial strength of business organisations.</td>
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<td>ACCY102</td>
<td>Accounting IB</td>
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<td>Accounting 1B builds on the understanding of accounting developed in Accounting 1A. It examines financial measures of business activities and the systems that enable the measures to be recorded and then reported and communicated to the various stakeholders of entities such as owners (including partners and shareholders), providers of credit (lenders and creditors), management as well as other interested parties.</td>
<td>On successful completion, students will be able to: 1. use basic accounting concepts and techniques to analyse, record, process and present accounting information; 2. use computer spreadsheets to solve simple accounting problems; 3. use accounting information to assess profitability and financial strength of business organisations; 4. design a simple accounting information system; 5. identify the need for and then prepare internal and external accounting reports.</td>
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<td>ACCY201</td>
<td>Financial Accounting IIB</td>
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<td>ACCY100</td>
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<td>Subject Description: Accounting standards are applied to companies and groups of companies in order to produce external financial reports. The subject contains three distinct but inter-related strands. First, there is a technical strand of knowledge and skills used in applying accounting standards to financial reports. Secondly, there is a contextual strand, which highlights the environment in which financial reporting takes place. Thirdly, there is a theoretical strand, where deeper issues relating to accounting practice will be explored. Lectures, tutorials, workshops and assessment tasks will provide opportunities to develop students' understanding of each of these three strands.</td>
<td>After having successfully completed this subject, students should be able to: 1. access a knowledge base and demonstrate associated skills in the practical application of certain Australian Accounting standards in the preparation of financial reports; 2. demonstrate an understanding of the context in which Australian companies prepare financial reports and the issues that currently impact the accounting profession; 3. explain the sociological, political and economic dimensions of financial reporting.</td>
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<td>ACCY202</td>
<td>Financial Accounting IIA</td>
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<td>Subject Description: An introduction to accounting theory and critique, and the preparation of accounting statements to comply with accounting and statutory regulation. This subject also covers reporting requirements for economic groups consisting of multiple legal entities.</td>
<td>Please see subject programme available from the Coordinator</td>
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<td>ACCY211</td>
<td>Management Accounting II</td>
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<td>Subject Objectives: Please see subject programme available from the Coordinator</td>
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Contact Hours: 2L, 1T, 1W, 1CL
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: ACCY202
### ACCY212 Accounting For Marketing Decisions 6cp

**Autumn**  
Wollongong  
On Campus  

**Contact Hours:** 2L,1T,1W  
**Pre-requisites:** ACCY101, ACCY190 or ACCY100  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** ACCY211  

**Assessment:** See subject program  

**Subject Description:**  
The design, production and use of accounting and other quantitative information in the planning and control of organisations, including management of the production function, decentralised organisations, derivation of cost relationships and statistical control of costs.

**Subject Objectives:**  
Information unavailable

### ACCY211 Business Finance I 6cp

**Autumn**  
Wollongong  
On Campus  

**Spring**  
Shoalhaven  
On Campus  

**Spring**  
Batemans Bay  
Flexible  

**Spring**  
Bega Education  
Flexible  

**Contact Hours:** 2L,1T,1W  
**Pre-requisites:** ACCY101, ACCY190, or ACCY100 and ACCY102  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** ACCY241  

**Assessment:** See subject program  

**Subject Description:**  
The material covered will be almost identical to that in ACCY211 Management Accounting II. However, essays, assignments, tutorial work, projects and computer exercises may emphasise marketing decision.

**Subject Objectives:**  
Upon completion of this subject, students will be able to: Appreciate the relevance of cost information in the marketing context; Analyse business information to assist decision making; Understand cost behaviour and cost determination; develop budgets; understand and use selected financial tools

### ACCY223 Investments I 6cp

**Spring**  
Wollongong  
On Campus  

**Contact Hours:** 2L,1T  
**Pre-requisites:** ACCY221  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  

**Assessment:** See subject program  

**Subject Description:**  
An introduction to modern portfolio theory and capital asset pricing. The first part of the course develops asset pricing and investment market behaviour models. It then examines the relevant empirical tests and applies the models to the problem of measuring risk, market efficiency and portfolio performance; followed by a study of investment management in the social and economic contexts. This part emphasises the role of capital asset markets, interest rates and bonds in financial management.

**Subject Objectives:**  
Upon completion of this subject, students should have sufficient theoretical understanding to: Identify, formulate and solve the main decisions facing the investor in constructing a portfolio of assets; explain, evaluate and discuss the organisation and functioning of alternative financial asset markets, including main recent trends and product developments; formulate and calculate the pricing of the major financial and capital assets and derivative products; recognise and discuss the measures used to evaluate investment performance; recognise and explain the terminology, concepts and characteristics of derivatives markets and their operation, especially in relation to hedging portfolios; define portfolio management strategies and the fundamental issues and decisions involved.

### ACCY226 Financial Institutions 6cp

**Spring**  
Wollongong  
On Campus  

**Contact Hours:** 2L,1T  
**Pre-requisites:** ACCY221 and ECON111  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  

**Assessment:** See subject program  

**Subject Description:**  
This subject covers the history and development of financial institutions and their current role in national and global financial markets. A distinction is made between financial intermediaries and financial agents. The subject is presented with an Australian/Asian focus. It emphasises an analysis of the interaction between financial institutions within the two regions.

**Subject Objectives:**  
To acquaint students with the nature, role and significance of financial institutions, instruments and markets in national and international economic development. On completion of this subject students will be able to identify the most significant features of the Australian capital market, understand the technical operation of institutions within markets and appreciate their importance and role in an international context

### ACCY227 Finance in Small Business 6cp

**Spring**  
Wollongong  
On Campus  

**Contact Hours:** 2L,1T  
**Pre-requisites:** ACCY221  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  

**Assessment:** See subject program
Subject Description: The focus of this subject is financial management in small firms in an environment of market imperfections which may adversely affect such organisations. Issues to be discussed include valuation, performance measurement, the 'finance gap' and franchising. The need to modify traditional finance theory when applied to small firms is emphasised.

Subject Objectives: Upon completion of this subject students should be able to: Identify failacies in the application of traditional financial theory to the small and medium business environment; Illustrate these failacies with concrete examples and be able to offer some alternative approaches to such theoretical problems as determining firm value in the absence of a market measure of systematic risk; Explain, orally and in writing, the reasons theory sometimes fails to be supported when applied in the small or medium sized firm environment.

ACCY228 Tax Planning 6cp
Spring  Wollongong  On Campus
Contact Hours: 2L,1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The subject provide an overview of the procedures and theory of planning for the optimum level of taxation for an individual and/or a business at different stages in life. Optimal tax planning changes from the intense early years where income is rising and investments are made through to retirement where income is minimal and investments start to be realised.

Subject Objectives: On successful completion, students will be able to: 1. Critically evaluate alternative tax planning strategies for optimal personal/business returns. 2. Develop a suitable set of tax management strategies for individuals at various life stages. 3. Develop a suitable set of tax management strategies for business. 4. Demonstrate a knowledge of relevant taxation legislation including an awareness of pending changes. 5. Demonstrate cognisance of the anti-avoidance provisions in legislation.

ACCY231 Information Systems in Accounting 6cp
Spring  Wollongong  On Campus
Contact Hours: 2L,2T/CL
Pre-requisites: ACCY101, ACCY190, or ACCY100 and ACCY102
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The subject is designed to give students an appreciation of and expertise in the use of financial tools in an international context. The subject will cover the techniques of finance and will then relate them to international financial institutions and practices. Throughout the course students will learn to evaluate risk and expected return from international investment markets.

Subject Objectives: On successful completion, students will be able to: 1. Identify and use appropriate financial tools and techniques for international financial management; 2. Explain the techniques for evaluating, and the ramifications of, risk/return in an international context; 3. Describe the sources of long term debt, and equity capital in the international markets.

ACCY291 Business Finance I 6cp
Spring  Shoalhaven  On Campus
Spring  Bega Education  Access Centre
Spring  Batemans Bay  On Campus
Contact Hours: Information unavailable
Pre-requisites: ACCY101, ACCY190, or ACCY100 and ACCY102
Co-requisites: none
Restrictions: none
Exclusions: ACCY221
Assessment: Essay - 10%; Computer Assignment - 10%; Mid-Term Test - 25%; Final Exam - 45%; Tutorial Problems and Participation - 10%
Subject Description: An introduction to financial markets and corporate valuation, and a critical examination of the theory and practice of corporate financial management, including the capital structure decision, the capital acquisition/dissbursement decision, and the investment decision.

Subject Objectives: Upon completion of this subject, students will be able to: Value projected cash flow streams such as loans, debentures, equity investments, leases and other contracts; Model and solve short-term and long-term capital investment decision problems; Identify and make allowance for the relationship exhibited by financial markets between risk and return; Identify and measure the costs to the firm of different forms of debt and equity capital; Evaluate the dividend and financial leverage policies of individual firms; Build and operate financial models using computer spreadsheets; Explain lucidly and succinctly selected concepts and tools of corporate finance.

ACCY292 Financial Accounting II 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ACCY101, ACCY190, or ACCY100 and ACCY102
Co-requisites: none
Restrictions: none
Exclusions: ACCY202
Assessment: See Subject Program
Subject Description: An introduction to accounting theory and critique, and the preparation of accounting statements to comply with accounting and statutory regulation. This subject also covers reporting requirements for economic groups consisting of multiple legal entities.

Subject Objectives: Please see Subject Program available from the Coordinator.
ACCY293  Management Accounting II   6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ACCY101, ACCY190 or ACCY100 and ACCY102
Co-requisites: none
Restrictions: none
Exclusions: ACCY211
Assessment: information unavailable.
Subject Description: The design, production and use of accounting and other quantitative information in the planning and control of organisations, including management of the production function, decentralised organisations, derivation of cost relationships and statistical control of costs.
Subject Objectives: information unavailable.

ACCY294  Information Systems in Accounting  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ACCY101, ACCY190, OR ACCY101 AND ACCY102
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: information unavailable.
Subject Objectives: information unavailable.

ACCY302  Financial Accounting III   12cp
Autumn  Wollongong  On Campus
Contact Hours: 3L,2T,1W
Pre-requisites: ACCY201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Advanced aspects of financial accounting and external reporting with particular reference to developments in accounting theory and professional standards, including critical evaluation and comparison of various financial accounting theories.
Subject Objectives: This subject has been developed to foster the attributes of a Wollongong graduate as expressed in the University’s ‘Towards 2000’ document.

ACCY303  Selected Issues in Accounting A   6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ACCY201 or ACCY202 and ACCY211
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Selected issues in external reporting, including issues in international accounting and comparative accounting standards.
Subject Objectives: information unavailable.

ACCY312  Management Accounting III   6cp
Spring  Wollongong  On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY211
Co-requisites: none
Restrictions: none
Exclusions: ACCY211
Assessment: See subject program
Subject Description: An advanced treatment of management accounting theory and its relationship to decision theory, including model building and use, cost prediction, pricing decisions, and the behavioural dimensions of management accounting.
Subject Objectives: Upon completing this subject, students should be able to: 1. Understand and appreciate the conceptual foundations of management accounting; 2. Understand and apply a range of behavioural and operations research decision models; 3. Understand explain the current developments in management accounting thought and practice, particularly the role of management accounting in the new technological environment; 4. Apply analytical skills to solving a variety of advanced management accounting problems; 5. Demonstrate computer dexterity in the use of both spreadsheets and specifically designed decision analysis software; 6. Demonstrate professional adaptability skills; 7. Present your views and arguments both orally and in written form.

ACCY313  Selected Issues in Accounting B   6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ACCY201 or ACCY202 and ACCY211
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Selected issues in management accounting, including international management accounting.
Subject Objectives: information unavailable.

ACCY322  Business Finance II   6cp
Spring  Wollongong  On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY221
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Advanced aspects of financial management of corporate resource allocations with an emphasis on issues in financial planning and strategy. Topics will include the impact of increasing complexity in the business environment upon financial decisions, the development and use of financial planning models, the costs and benefits of mergers/takeovers and aspects of international financial management.
Subject Objectives: Students undertaking this subject will develop the ability to make judgements concerning financial decision making under uncertainty. Students will also develop the capacity to articulate their judgements both orally and in writing.

ACCY323  Investments II   6cp
Autumn  Wollongong  On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY223
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Objectives: Students undertaking this subject will develop the ability to make judgements concerning financial decision making under uncertainty. Students will also develop the capacity to articulate their judgements both orally and in writing.
Subject Description: This subject is at an advanced level. Students are presumed to have successfully completed ACCY221 Business Finance I and ACCY223 Investments I and to be knowledgeable in the material covered in those subjects. Building upon that base, advanced issues in modern investment management, portfolio theory, capital and derivative markets are discussed from a global perspective.

Subject Objectives: Upon completion of this subject, students should have sufficient theoretical understanding to: 1. Identify and explain a selection of key issues referred to in the modern investment management literature; 2. Evaluate important contributions from investment literature to the field of modern investment management; 3. Assess the implications of issues discussed in the literature on the practice of modern investment management. Students will also be able to select and apply the appropriate techniques to investment management in practice.

ACCY324 Financial Statement Analysis 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY202 and ACCY221
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject develops knowledge and skills in the principles and techniques of analysis of accounting information contained in financial statements. The emphasis is on practical application of these skills at an advanced level. Students will undertake a major project which will utilise and extend the skills and knowledge gained during the course. The subject will involve an exploration of the many and varied sources of information used in developing financial analyses of firms (companies and other entities).

Subject Objectives: See Subject Coordinator

ACCY325 Banking Practice 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY221
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Banking Practice is a comprehensive subject in banking that integrates with both the finance and accounting majors. It combines information on management practices and operations of banks. The subject involves in depth discussions and analysis of banking practices within the Australian and international framework.

Subject Objectives: See Subject Coordinator

ACCY327 Risk and Insurance 6cp
Spring Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY221
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The subject deals with the concepts and technical analysis of risk, risk attitudes and insurance. The content covers protection against portfolio, financial and corporate risk that are part of various types of investment decisions. The analysis covers risk insurance in relation to share portfolio protection, hedging against currency exchange rate movements and loan interest movements.

Subject Objectives: Information unavailable

ACCY328 Retirement and Estate Planning 6cp
Spring Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The subject will provide an overview of the procedures and theory of retirement and estate planning. It will discuss the goals and objectives of retirement planning with a view to maximisation of the benefits accruing to the retiree. The subject will also provide a comprehensive overview of superannuation and the implications of superannuation strategies.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Critically evaluate the alternatives for retirement and estate planning. 2. Develop a suitable set of retirement strategies for individuals given varying socio-economic backgrounds, ages and desires. 3. Demonstrate an awareness of relevant legislation. 4. Be able to describe the alternatives available to individuals contemplating retirement.

ACCY329 Real Estate Planning 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Real estate planning focuses on the criteria involved in property planning. The subject entails comprehensive discussions on issues such as the financing (underwriting) of residential, commercial and income properties, proposed projects, real estate capital markets and securities, legal aspects of real estate planning, the various types of mortgage available, residential financial analysis, the various types of risks involved and the disposition and renovation of real estate.

Subject Objectives: On successful completion of this subject, a student will be able to: 1. Discuss and illustrate the impact of real estate planning within the financial sector. 2. Display a knowledge of the legal considerations involved in real estate planning. 3. List the types of financing available in real estate planning. 4. Be able to demonstrate an understanding of the residential financial analysis and various valuation methods involved in real estate planning. 5. Assess the various types of risks involved and the disposition and renovation of real estate. 6. Analyse new developments within the field of real estate. 7. Explain the implications of social, economic and political factors on real estate planning.

ACCY332 Advanced Information Systems in Accounting 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,1CL
Pre-requisites: ACCY231
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Advanced aspects of communication and information technology, system evaluation, design, implementation and management, accounting and associated computer applications.
Subject Objectives: information unavailable

ACCY335 Systems Analysis and Design in Accounting and Finance 6cp
Spring Wollongong On Campus
Contact Hours: 2L,1T, 1CL
Pre-requisites: ACCY231 or BUSS211 and BUSS212
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: To maintain competitiveness in the global electronic market-space organizations need to ensure that their information system and business strategies are aligned. The greatest impediment to this strategic alignment is the inability of technical and non-technical management to effectively communicate. Systems Analysis and Design in Accounting and Finance provides future business managers with the necessary skills to effectively communicate with Information Technology specialists. These skills are developed through the examination of the analysis and design techniques of Entity Relationship (ER) and Resource Event Agent (REA) modeling, in conjunction with an overview of Enterprise Resource Planning Systems (ERP) and Electronic Commerce (e-commerce) implementation issues. In addition to a generic examination of ERP, students will also work through a series of e-commerce computer exercises utilising SAP.
Subject Objectives: information unavailable

ACCY336 Decision Support Systems 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ACCY231
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Nature of, and concepts underlying, decision support systems. Decision support systems for strategic and tactical planning (including corporate planning). Decision support systems for specific areas - selected from: marketing, finance, merchandising, inventory control, production control.
Subject Objectives: information unavailable.

ACCY342 Advanced Auditing 6cp
Spring Wollongong On Campus
Contact Hours: 2L,1T, 1CL
Pre-requisites: ACCY201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Advanced auditing is a capstone subject for students undertaking an accountancy major. It integrates accounting standards, accounting systems, internal controls, and the auditing functions of obtaining and evaluating evidence, and reporting, all within an overview of auditing, and continues through the audit process with emphasis on financial statement audit under the Corporation Law. In addition, the program addresses issues related to electronic data interchange audit.
Subject Objectives: See Subject Coordinator

ACCY351 International Business Finance 6cp
Spring Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY221
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject analyses financial markets in the international sphere, concentrating on the Australian/Asian regions. The subject explores the concepts and relationships linking international financial markets within the region and the operation of Australian firms in those markets. An introduction to international finance markets theory covers such issues as de-regulation of Australian banking and the Eurofinance market, the pricing of foreign exchange, the international financing decision, foreign exchange and interest rate risk management.
Subject Objectives: Upon completion students should be able to: 1. Explain the international financial environment; 2. Describe how foreign exchange markets operate; 3. Discuss the management of different types of foreign exchange exposure; 4. Examine financial decisions facing firms in a global context; 5. Identify the role of international banking in multinational investment decisions; 6. Describe the strategic issues related to foreign investment decisions; 7. Discuss working capital management issues of multinational business.

ACCY352 Critical Perspectives in Finance 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ACCY221 and 12 additional cp from Schedule C-9
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Program
Subject Description: This subject approaches finance unconstrained by the strict neo-classical economic assumptions. It examines the behavioural, social, critical, historical and philosophical aspects of finance. It approaches real world problems of finance in practice and theory. An interdisciplinary approach is adopted, drawing on concepts and work in those disciplines which directly bear on the behavioural and social environments.
Subject Objectives: To examine alternative perspectives on contemporary finance theory in order to determine whether such approaches are more fruitful in leading to an understanding of the management of financial resources and investment decision making.

ACCY353 Global Electronic Finance 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,1CL
Pre-requisites: ACCY221
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject will provide a hands-on practical training and development of some of the theoretical and professional issues of internet based technologies that enable and support global electronic finance. The focus will be on the application of leading edge Internet-based (client server) technologies in the design and implementation processes of Electronic Trading applications. Some of the leading implementations of Electronic Trading Systems, such as: the Australian Stock Exchange (ASX) and the New York Stock Exchange (NYSE) will be examined. The legal, control and security aspects of global electronic finance will be examined as well.

Subject Objectives: After successfully completing this subject, students will be able to: 1. Describe how internet-based technologies function in relation to finance processes in today's business environment, with insights into how they might function in the future; 2. Demonstrates the use of basic internet-based technology fundamentals relating to finance and electronic trading cycles; 3. Use a wide range of Information Technology technical skills in the analysis, design and management of internet-based electronic trading applications; 4. Explain the digital finance fundamentals relating to the digital economy and the knowledge economy where firms value chains are electronically interconnected; 5. Evaluate and use a variety of different viable finance models for electronic trading systems.

ACCY359 Selected Issues in Finance 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY221
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The subject will examine selected topics in the areas of finance and/or investments. Subjects examined will be topical issues and problem areas in the disciplines and will change from year to year.
Subject Objectives: information unavailable

ACCY368 Insolvencies 6cp
Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Accounting and legal aspects of corporate and non-corporate insolvencies including liquidations & receiverships, alteration of capital, reconstruction, amalgamation and takeovers, and the use of insolvency procedures as a management strategy.
Subject Objectives: See Subject Coordinator

ACCY372 Topics in Accounting History 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: ACCY201 or ACCY202
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Topics in the history and development of accounting thought.
Subject Objectives: information unavailable

ACCY380 Accounting For Information Technology 6cp
Spring Wollongong On Campus
Contact Hours: 2L,1CL
Pre-requisites: IACT301, ITAC301
Co-requisites: none
Restrictions: none
Exclusions: ACCY901, ACCY101, ACCY190 or ACCY100 and ACCY102
Assessment: See subject program
Subject Description: An introduction to accounting with special emphasis on the design, interpretation and utilisation of the major types of reports and analyses prepared by accountants for the decision making process.
Subject Objectives: information unavailable

ACCY403 Theoretical Foundations of Research 6cp
Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The nature of theory, research and theory formation. A study of the methods used in theory formation, and of attempts to formulate theories of accounting and finance.
Subject Objectives: information unavailable

ACCY404 Financial Accounting 6cp
Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: ITAC301
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An in-depth study of the basis of external financial reporting, including asset valuation and periodic profit measurement. A study of the elements of financial accountancy and their communication in accounting reports.
Subject Objectives: information unavailable

ACCY405 International Accounting 6cp
Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: ITAC301
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Differences in accounting thought and standards between countries. Influence of national outlook and policies and of economic infra-structure on accounting practice.
Subject Descriptions


Subject Objectives: information unavailable

ACCY406 Issues in Financial Accounting 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ITAC301
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Contemporary issues in financial reporting to external parties, including accounting for different classes of assets, liabilities and equities. Legal, institutional and professional reporting requirements including proposals for improvement in accounting principles applied in practice.

Subject Objectives: information unavailable

ACCY407 Empirical Research Methods in Accounting 6cp
Autumn Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The subject provides an overview of the ways accounting and finance researchers identify, formulate and investigate empirical questions in accounting and finance. Subjects include the criteria adopted to select research projects, issues of experimental design, validity threats, measurement problems and statistical analysis. Selected published accounting and finance research will be used to illustrate established methods of empirical research.

Subject Objectives: information unavailable

ACCY408 Applied Financial Accounting 6cp
Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: ITAC301
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Advanced problems in external financial reporting, including accounting for groups of companies, price level accounting and reporting theory involving consideration of taxation and economic implications.

Subject Objectives: information unavailable

ACCY409 Comparative Accounting Systems 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: An in-depth examination of the patterns of accounting development in different national political environments. Key variables determining the differential accounting development patterns and their implications, in particular, for multinational reporting, will be critically evaluated. Approaches for resolving the problems posed by the diversity of accounting systems will also be considered.

Subject Objectives: information unavailable

ACCY413 Management Accounting 6cp
Autumn Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The conceptual basis of management accounting and information systems. An examination of traditional and alternative theories and approaches shaping organisational and behavioural aspects of management accounting, including the contingency approach, the agency approach, control system theories, activity based accounting and critical accounting approaches.

Subject Objectives: information unavailable

ACCY414 Management Planning and Control Systems 6cp
Autumn Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An in-depth analysis of selected aspects of the design and evaluation of management accounting planning and control systems in both the private and public sectors.

Subject Objectives: information unavailable

ACCY416 Studies in Controllership 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Program
Subject Description: The role and functions of the Chief Accounting Officer. Designing, installing and managing accounting systems - both financial and managerial. Specific problem areas in controllership, as depicted in selected case studies.

Subject Objectives: information unavailable

ACCY418 Applied Management Accounting 6cp
Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An in-depth applied analysis of selected topics in management accounting. Topics chosen could include decision theory and analysis, financial model building, cost prediction and control techniques, pricing, management accounting systems design, and the interrelationships between management and the management accounting system. Theoretical concepts developed in other management accounting subjects will be expanded as needed to support the complex applications being studied.

Subject Objectives: information unavailable

ACCY422 Investment Analysis 6cp

Autumn Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: An in-depth study of capital investment decision analysis. The theoretical bases of net present value and internal rate of return selection criteria. The application of investment selection criteria under diverse conditions such as capital rationing, mutually exclusive choice situations, buy/lease decisions, fluctuating rates of output and inflation. The incorporation of risk into capital investment decision analysis, including the application of capital asset pricing models to investment evaluation.

Subject Objectives: information unavailable

ACCY423 Investment Management 6cp

Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: An in-depth applied analysis of selected topics in management accounting. Topics chosen could include decision theory and analysis, financial model building, cost prediction and control techniques, pricing, management accounting systems design, and the interrelationships between management and the management accounting system. Theoretical concepts developed in other management accounting subjects will be expanded as needed to support the complex applications being studied.

Subject Objectives: information unavailable

ACCY424 Corporate Financial Information Analysis 6cp

Autumn Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: A survey of methods for the appraisal and prediction of corporate financial performance from such publicly available information as accounting numbers, industry and economic statistics, and stock market data. Equal emphasis is placed upon the development of theoretical constructs, and appraisal of the results of empirical research, especially Australian studies.

Subject Objectives: information unavailable

ACCY425 Banking Theory and Practice 6cp

Autumn Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject focuses on accounting aspects of the practices and operations of banks and other financial institutions. It entails comprehensive discussions on issues that are commonly involved within the banking environment such as the regulatory structure, the cheque clearing system, risk management, lending issues, capital adequacy analysis, and the latest information technology within the banking world.

Subject Objectives: information unavailable

ACCY426 Studies in Business Finance 6cp

Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: Contemporary business finance theory, including option pricing theory, arbitrage pricing model, bond swapping and bond immunisation.

Subject Objectives: information unavailable

ACCY427 Small Business Finance 6cp

Spring Wollongong On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: Two major problems account for the majority of small business failures. These are managerial problems and financial limitations. Both are intertwined. The material in this subject covers the sources, uses, and management of funds from pre-purchase to public listing. For example, common errors in the financial management of small firms include a lack of adequate control systems for cash and inventory management, accounts receivable and payable, credit management etc. Financial decisions involve complex issues that have both theoretical and applied components that will be discussed in some detail.

Subject Objectives: Small Business Finance is not designed to train students in the management of small businesses. Instead, it is intended to enlighten potential advisors about the problems small business owner/managers face. By the end of the subject, successful students should be able to assess the reasons for client's difficulties and should be able to suggest and explain methods the client would be able to apply to overcome those difficulties. Therefore, the subject requires the development of both analytical skills and an ability to communicate both orally and in writing.
ACCY428 Multinational Financial Management 6cp
Spring  Wollongong  On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The role of multinationals in international investment; aspects of the international monetary system; Euromarkets; foreign exchange markets; internal and external exposure management techniques; currency futures and options; swaps; financing MNC investment; MNC investment decision making; political risk analysis; international taxation.
Subject Objectives: information unavailable

ACCY433 Studies in Information Systems in Accounting 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Theoretical and practical aspects of contemporary information theory in accounting system evaluation, design, implementation and management, accounting and associated computer applications, sociological and ethical implications and research issues are explored.
Subject Objectives: information unavailable

ACCY436 Management and Information Systems 6cp
Autumn  Wollongong  On Campus
Spring  Wollongong  On Campus
Contact Hours: 1S, 1CL
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The effective use and control of information systems, particularly computer-based information systems, and the likely impact of developments in this area on management functions and how managers carry out those functions.
Subject Objectives: information unavailable

ACCY443 Auditing and Accounting Information Systems 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: The general principles of auditing applied to the audit of computer-based accounting systems and the use of computers as an auditing tool. Particular emphasis on the positive aspects of auditing and internal control, including their contribution towards improvements in:
Subject Objectives: information unavailable

ACCY444 Issues in Auditing 6cp
Spring  Wollongong  On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An in-depth examination of contemporary topics in auditing with emphasis on controversial and theoretical issues, including social and ethical issues, role of quantitative techniques in the audit function, continuous auditing concept, uncertainty reporting, audit performance evaluation, extension of attest function and public sector auditing.
Subject Objectives: information unavailable

ACCY461 Professional Practice - Accounting 6cp
Autumn  Wollongong  On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Statements of Accounting Standards and Statements of Accounting Practice. Accounting Provisions of the Companies Act.
Subject Objectives: information unavailable

ACCY462 Professional Practice - Auditing and EDP 6cp
Autumn  Wollongong  On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Statements of Auditing Standards and Statements of Auditing Practice. EDP Systems and Controls.
Subject Objectives: information unavailable

ACCY463 Professional Practice - Taxation 6cp
Autumn  Wollongong  On Campus
Contact Hours: 2S
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Objectives: information unavailable
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**ACCY483 Study in Government Accounting 6cp**

- **Spring**: Wollongong On Campus
- **Contact Hours**: 2S
- **Pre-requisites**: none
- **Co-requisites**: none
- **Restrictions**: none
- **Exclusions**: none
- **Assessment**: See subject program
- **Subject Description**: Accounting and legal aspects of corporate and non-corporate insolvencies including bankruptcies, liquidations, receivership, alteration of capitol, reconstruction, amalgamation and takeovers.

**ACCY485 Special Topic in Accounting - A 6cp**

- **Spring**: Wollongong On Campus
- **Contact Hours**: 2S
- **Pre-requisites**: none
- **Co-requisites**: none
- **Restrictions**: none
- **Exclusions**: none
- **Assessment**: See subject program
- **Subject Description**: A special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. The selection will be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

**ACCY486 Special Topic in Accounting - B 6cp**

- **Spring**: Wollongong On Campus
- **Contact Hours**: 2S
- **Pre-requisites**: none
- **Co-requisites**: none
- **Restrictions**: none
- **Exclusions**: none
- **Assessment**: See subject program
- **Subject Description**: A special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. The selection will be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

**ACCY473 History of Accounting Thought 6cp**

- **Contact Hours**: Subject not on offer in 2002.
- **Pre-requisites**: none
- **Co-requisites**: none
- **Restrictions**: none
- **Exclusions**: none
- **Assessment**: Information unavailable.
- **Subject Description**: An examination of the environmental factors and processes by which accounting thought, practices and institutions originated and developed in the ancient, medieval and modern eras. Ancient accounts, Special-purpose account-keeping in the Middle Ages. Philosophy, influence and constraints of the double-entry system. Development of basic concepts of continuity, accrual accounting and limited liability. Impact of the Industrial Revolution and changing corporate environment on accounting development. Legislation and institutional influences on accounting.

**ACCY474 Accounting Regulation 6cp**

- **Spring**: Wollongong On Campus
- **Contact Hours**: 2S
- **Pre-requisites**: none
- **Co-requisites**: none
- **Restrictions**: none
- **Exclusions**: none
- **Assessment**: See subject program
- **Subject Description**: An in-depth study of the regulation of accounting practice and procedures, the accounting profession and of measurement and disclosure in external financial reporting. This could include an examination of the consequences of regulation, alternative institutional arrangement for setting standards, the impact of accounting thought on standard setting, and a historical review of accounting regulation.

**ACCY483 Study in Government Accounting 6cp**

- **Contact Hours**: Subject not on offer in 2002.
- **Pre-requisites**: none
- **Co-requisites**: none
- **Restrictions**: none
- **Exclusions**: none
- **Assessment**: Information unavailable.
- **Subject Description**: A detailed examination of selected areas in federal, state, regional or local government accounting.

**ACCY491 Honours Finance 48cp**

- **Annual**: Wollongong On Campus
- **Contact Hours**: Information unavailable
- **Pre-requisites**: none
- **Co-requisites**: none
- **Restrictions**: none
- **Exclusions**: none
- **Assessment**: See subject program
- **Subject Description**: The subject is designed around coursework and a research essay. There will be a core of coursework comprising accounting and finance theory, research methods and investment analysis. A Major research essay will report the results of a research study undertaken by candidates
Subject Descriptions

under supervision. In addition there will be some elective coursework study in a program approved by the subject co-ordinator or Head of Department.

Subject Objectives: information unavailable

ACCY493 Research Essay 12cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ITAC301
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An individual program determined in consultation with the Head of Department.
Subject Objectives: information unavailable

ACCY495 Research Essay 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An individual program determined in consultation with the Head of Department.
Subject Objectives: information unavailable
ECONOMICS

COMM100 Introduction to Employment Relations 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject is offered in two discrete sections. It introduces students to several approaches to understanding employment, the management of labour, and work. It draws on social sciences, behavioural sciences and business sciences, in particular various forms of industrial/employment relations, and human resource management. Section one investigates the importance of context for analysing the factors that determine or influence the nature and organisation of paid work and employment at managerial and non-managerial levels. Section two is an introduction of the key concepts and techniques of contemporary human resource management. Based on an open systems approach to understanding organisations, it examines how these concepts and techniques can be used to manage the processes of organisational entry, exit and job performance.
Subject Objectives: information unavailable

ECON101 Macroeconomic Essentials for Business 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Autumn Batemans Bay Flexible
Autumn Shoalhaven Flexible
Autumn Bega Education Access Centre
Autumn Shoalhaven Flexible
Contact Hours: Wollongong 2L1T, Other - information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: not to count with ECON191 or ECON190
Assessment: See subject program
Subject Description: Macroeconomics develops a student's knowledge of economic theory and the capacity to apply this knowledge to a range of important domestic and international issues. These issues could include taxation reform in Australia, national debt, trade and investment, economic development and growth.
Subject Objectives: This subject aims to introduce students to the Australian economy and to explain the functioning of the economy as a whole. The approach will be primarily analytical in nature, in order to show how economic principles can be used to analyse real world events and problems and to recommend appropriate economic policy. The subject commences with an introduction to important macroeconomic concepts and techniques. The measurement of real output as well as the development of a Keynesian macroeconomic model to examine the determinants of equilibrium real output is then conducted. An analysis of key issues such as inflation and unemployment is then emphasised, as well as the identification of appropriate policy responses such as in the form of monetary and fiscal policy. The importance of analysing the functioning of the economy in the context of a global environment is also emphasised, through identification of the significant contribution of international trade to the Australian economy.

ECON111 Introductory Microeconomics 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Autumn Batemans Bay Flexible
Autumn Bega Education Access Centre
Autumn Shoalhaven On Campus
Intake C Sydney Modular
Contact Hours: Wollongong Spring - 2L1T, Wollongong Autumn - 3L1T, Other - information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An introduction to microeconomics and its application to contemporary social and economic problems. Elementary economic theory and the necessary institutional framework will be developed.
Subject Objectives: The aim of this course is to make the basic microeconomic concepts, elementary techniques, and simple microeconomic models and applications accessible and understandable to all students. Specifically, students who complete this subject successfully will * know and be able to use the terminology and graphical techniques of basic microeconomics. * understand and be able to explain the basic theory of demand and supply, including nature and application of price, cross, and income elasticities. * know and be able to explain the basic theory of production and costs. * know and be able to explain the market behavior of firms operating in markets characterized by perfect competition, monopoly, monopolistic competition, and oligopoly. * be able to use the theory of microeconomics to analyze social issues and policies in areas such as education, health care and the environment.

ECON121 Quantitative Methods I 6cp
Intake A Sydney Modular
Spring Batemans Bay Flexible
Spring Bega Education Access Centre
Spring Shoalhaven On Campus
Spring Wollongong On Campus
Spring Moss Vale On Campus
Autumn Wollongong On Campus
Contact Hours: Wollongong - 2L1T, Other - information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An introduction to quantitative techniques and their application to business economics. Emphasis will be on statistics and topics will include descriptive statistics,
probability, sampling, confidence intervals and hypothesis testing, elementary correlation and regression analysis and the use of computer programs for estimation and analysis. 

**Subject Objectives:** On successful completion of this subject students should be able to: understand the statistical techniques that are commonly used in the modern commercial world; apply the statistical techniques to improve the business decision-making process; interpret and explain solutions in non-technical way; and use and interpret appropriate output from statistical computer packages, particularly Minitab.

**ECON122 Quantitative Methods II** 6cp

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**Contact Hours:** 3L1T

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** See subject program

**Assessment:** See subject program

**Subject Description:** An introduction to mathematical techniques emphasising their application to business and economics. Topics will include algebraic functions, linear models and matrix algebra, index numbers, mathematics of finance, differential calculus, constrained optimisation and integral calculus.

**Subject Objectives:** The main objective of this course is to provide Commerce students with some of the tools required to understand the mathematical content of journal articles. This is particularly important given the rapid increase in this mathematical content in recent times. The course will also allow students a deeper understanding of second and third year Commerce subjects that on occasions use mathematical expositions. Students in this subject will also obtain a level of mathematical competency that is well in advance of that necessary for general use in society. Students should also be able to use some of the knowledge gained from this course in the business world by being able to set up models of economic and business phenomena, and allowing a more thorough interpretation and understanding of statistical analyses.

**ECON140 Industrial Relations B: Wage Determination** 6cp

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**Contact Hours:** 2L1T

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** The objective of the subject is to examine some of the factors which influence wage determination in Australia. Special emphasis is placed on the development of the arbitration system and the contemporary social and economic factors influencing wage determination.

**Subject Objectives:** By the end of this subject the successful student will: identify and explain the major economic and social processes and institutions that shape wage determination. Explain how the study of such processes and institutions can enable the student to become an informed and effective industrial relations analyst and practitioner. Understand that the interpretation of events and processes in wage determination is influenced by individual and institutional interests and outlooks. Have extended statistical and information literacy research skills.

**ECON142 Industrial Relations A** 6cp

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<td>Autumn</td>
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**Contact Hours:** Wollongong - 2L1T; Other - information unavailable.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** The employment relationship is studied in terms of the influence of social, economic, political and legal environment and the power resources of the actors and others who seek to influence employment. The organisation and policies of the major participants in the system are analysed in both historical and contemporary settings.

**Subject Objectives:** Students who successfully complete this subject should be able to: understand the nature of the employment relationship and the ways in which all parties seek to control and administer the employment relationship; recognise the nature, basis and underlying reasons for the changing structures and patterns in employment relations / industrial relations with particular reference to globalisation; be able to discuss the ways in which the power and the power resources of the parties are utilised to influence the control and administration of the employment relationship; have extended statistical and information literacy research skills. recognised that in social science research our interpretation of events and processes is determined by our frames of reference.

**ECON205 Macroeconomic Theory and Policy** 8cp

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**Contact Hours:** 2L1T

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** This unit analyses the major factors which determine the behaviour of the macroeconomy including policy prescriptions. The effects of money and interest, consumption and investment behaviour, monetary and fiscal stabilisation policies and the balance of payments on aggregate demand are studied. Aggregate supply factors in the form of the power of the power resources of the parties are utilised to influence the control and administration of the employment relationship; have extended statistical and information literacy research skills.

**Subject Objectives:** The aim of the course is to analyse the major factors which determine economic behaviour in the aggregate and to evaluate how alternative macroeconomic policies may improve economic performance. In doing so the course examines the major determinants of aggregate demand equilibrium, namely consumption and investment demands, international factors, money and interest. Monetary and fiscal policies are examined using this analytic structure to determine the effectiveness of these policies. Aggregate supply equilibrium is then analysed in terms of wages, prices and employment. The problems of inflation and unemployment are also considered along with possible wages policies. If time...
permits, longer term growth explanations of economic behaviour and associated policy prescriptions are briefly reviewed.

ECON207 Economic Policy 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject analyses the roles women and men play in the workforce and within the family. Topics will include: analysis of factors affecting recent trends in female and male labour force participation; gender differences in occupational patterns and earnings; the economics of discrimination; the role of the family in providing education, health care and other goods and services for its members; and the economic determinants of marriage and fertility.

Subject Objectives: On completion of the subject, participants should be able to: recognise the long term trends in the labour force participation of women and men; understand the supply and demand factors influencing trends in participation; consider societal attitudes and practices influencing patterns of male and female participation for both paid and unpaid work; evaluate alternative methods of measuring occupational segregation and crowding; understand the long term trends in segregation and crowding; evaluate the alternative theories of labour market discrimination; understand the important role of the family in producing education, health care and other goods and services; and evaluate the alternative models for explaining marriage and fertility rates.

ECON215 Microeconomic Theory and Policy 8cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: The subject provides further development of topics covered in introductory micro-economics, as well as more advanced topics. Topics that are developed further are demand and supply analysis; consumer choice; theory of the firm; cost functions; market behaviour under alternative market conditions; factor markets, and externalities. New topics not covered in the introductory course include general equilibrium theory and choice under conditions of uncertainty.

Subject Objectives: Microeconomic Theory & Policy is a course in intermediate level microeconomic theory and analysis. This subject deepens and extends students' understanding of introductory microeconomics. The topics covered include (but they are not limited to) consumption and production theory, monopolistic competition, oligopoly, game theory and strategic behaviour, barriers to entry, and contestable markets. Needless to say, there is a trade-off between the quantity and quality of the topics to be developed in the lectures. The content of ECON215 has been reduced in quantity but increased in quality.

ECON216 International Trade Theory & Policy 8cp
Spring Wollongong On Campus
Summer 2002 Wollongong On Campus
Autumn 2003 Wollongong On Campus
Contact Hours: Spring - 2L1T; Summer 2002/ Autumn 2003 - 4L2T.
Pre-requisites: ECON111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject is an introduction to international trade theory and international trade policy. It will examine the theory, policies, practices and institutions of relevance to a country's trade with other nations. Special attention will be given to Australia in the international economy.

Subject Objectives: A student who completes this subject successfully will be able to address the above questions and otherwise demonstrate knowledge of the basic theory of international trade through both written and verbal argument. He or she will be able to recognize assertions about international economics, in the popular press and elsewhere, that are wrong and, more important, he or she will know why they are wrong. The student will also be able to use the tools of analysis developed in the subject to solve specific problems relating to international trade theory and policy.

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Subject Descriptions

ECON221 Econometrics 8cp

Autumn  Wollongong  On Campus

Contact Hours: 2L1T

Pre-requisites:  ECON121 or STAT131 or STAT231

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: See subject program

Subject Description: Students learn to use data to solve real-world problems by estimating economic parameters (such as elasticities, marginal values etc). Students acquire expertise in applying econometric methods, including regression analysis and its extensions, to various types of data. Students learn how to use econometrics to test economic theory, analyse economic behaviour and assist in policy formation. The subject is application orientated and practical work is performed using Windows-based statistical software.

Subject Objectives: information unavailable

ECON227 The Creative Economy: Technology, Innovation and Policy A 6cp

Spring  Wollongong  On Campus

Contact Hours: 2L1T

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Essays; seminar and exam

Subject Description: This subject provides economic conceptual frameworks in which to think systematically about the economy, technology, innovation and related policy issues. The course does not include theory for the theory’s sake, but presents and uses theoretical tools as a means to the end of gaining better understanding of the role of innovation-related policy issues in the context of a creative economy. Although the concepts and tools developed are relevant to all countries, special attention will be given to Australia and other OECD economies.

Subject Objectives: To analyse real economic problems, and ones of immense importance; appreciate the utility of economic analysis in innovational contexts; use theory and evidence, and argue rigorously; think abstractly (i.e., about general principles rather than concrete examples); assess critically innovation policy debates.

ECON228 Quantitative Analysis For Decision Making 8cp

Spring  Wollongong  On Campus

Contact Hours: 2L1T

Pre-requisites: none

Co-requisites: ECON121 or ECON 193

Restrictions: none

Exclusions: none

Assessment: See subject program

Subject Description: The role of quantitative analysis in the decision-making process. Problem-solving techniques will be studied with emphasis on their practical application. Topics may include: linear programming; integer programming; goal programming; network analysis; systems simulation; decision theory; and inventory and queueing models.

Subject Objectives: a. To introduce the students to quantitative techniques used for decision making in business and economics. b. To develop the students' managerial ability and decision making skills. c. To lay the foundation for advanced studies in quantitative techniques and methods of operations research.

ECON229 The Creative Economy: Technology, Innovation and Policy B 8cp

Spring  Wollongong  On Campus

Contact Hours: 2L1T

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Essays; seminar and exam

Subject Description: This subject provides economic conceptual frameworks in which to think systematically about the economy, technology, innovation and related policy issues. The course does not include theory for the theory's sake, but presents and uses theoretical tools as a means to the end of gaining better understanding of the role of innovation-related policy issues in the context of a creative economy. Although the concepts and tools developed are relevant to all countries, special attention will be given to Australia and other OECD economies.

Subject Objectives: To analyse real economic problems, and ones of immense importance; appreciate the utility of economic analysis in innovational contexts; use theory and evidence, and argue rigorously; think abstractly (i.e., about general principles rather than concrete examples); assess critically innovation policy debates.

ECON230 Quantitative Analysis For Decision Making 6cp

Spring  Wollongong  On Campus

Spring  Shoalhaven  On Campus

Spring  Batemans Bay  Flexible

Spring  Bega Education Access Centre  Flexible

Contact Hours: Wollongong 2L1T; Other - Information unavailable

Pre-requisites: none

Co-requisites: ECON121 or ECON193

Restrictions: none

Exclusions: none

Assessment: See subject program

Subject Description: The role of quantitative analysis in the decision-making process. Problem-solving techniques will be studied with emphasis on their practical application. Topics may include: linear programming; integer programming; goal programming; network analysis; systems simulation; decision theory; and inventory and queueing models.

Subject Objectives: a. To introduce the students to quantitative techniques used for decision making in business and economics. b. To develop the students' managerial ability and decision making skills. c. To lay the foundation for advanced studies in quantitative techniques and methods of operations research.

ECON231 Business Statistics and Forecasting 8cp

Autumn  Wollongong  On Campus

Contact Hours: 2L1CL

Pre-requisites: ECON121 or a Statistics subject accepted by the Head of Department

Co-requisites: none

Restrictions: none

Exclusions: none
faculty of commerce

assessment: see subject program

subject description: this subject introduces students to the applications of multi-variate statistical analysis to problems in business and economics. These techniques will include multiple regression, discriminant analysis, factor analysis and cluster analysis. The subject also deals with the application of forecasting techniques, including smoothing methods, time series decomposition, and the Box Jenkins approach to problems. The emphasis will be on the use of various relevant computer packages.

subject objectives: this subject introduces students to the applications of multi-variate statistical analysis to problems in business and economics. These techniques will include multiple regression, discriminant analysis, factor analysis and cluster analysis. The subject also deals with the application of forecasting techniques, including moving averages and exponential smoothing, time series decomposition, multiple regression techniques, and the Box Jenkins approach to problems in business and economics.

ECON240 Industrial Relations B: Wage Determination 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: The objective of the subject is to examine some of the factors which influence wage determination in Australia. Special emphasis is placed on the development of the arbitration system and contemporary social and economic factors influencing wage determination.

Subject Objectives: By the end of this subject the successful student will: Identify and explain the major economic and social processes and institutions that shape wage determination. Explain how the study of such processes and institutions can enable the student to become an informed and effective industrial relations analyst and practitioner. Understand that the interpretation of events and processes in wage determination is influenced by individual and institutional interests and outlooks. Have extended statistical and information literacy research skills. Communicate research findings, both orally and in writing, in a clear and logical manner. N/A

ECON242 Industrial Relations A 8cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: GENE240 or ECON142 or POL241
Assessment: See subject program

Subject Description: The employment relationship is studied in terms of the influence of social, economic, political and legal environment and the power resources of the actors and others who seek to influence employment. The organisation and policies of the major participants in the system are analysed in both historical and contemporary settings.

Subject Objectives: By the end of this subject the successful student will: * understand the nature of the employment relationship and the ways in which all parties seek to control and administer the employment relationship; * recognise the nature, basis and underlying reasons for the changing structures and patterns in employment relations / industrial relations with particular reference to globalisation; * be able to discuss the ways in which the power and the power resources of the parties are utilised to influence the control and administration of the employment relationship; * be able to communicate research outcomes in lucidly argued essays and projects. * have extended statistical and information literacy research skills. * recognise that in social science research our interpretation of events and processes is determined by our features of reference.

ECON243 Work and Employment Relations 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject will reflect the widening perceptions of industrial relations by introducing students to the field of Employment Relations by which is meant the study of how the conflictual relationship between employers and employees, the development of human resource policies and the influence of law all interact to shape relations between management and labour.

Subject Objectives: To extend students knowledge of the relationships between industrial relations and human resource management in practice. To extend students knowledge of the relationships between industrial relations and human resource management in the academic literature. For students to demonstrate knowledge of employment relations using perspectives from both industrial relations and human resource management. For students to become familiar with the main content of employment relations, both in theoretical discourse and in the practice of employment relations. To improve student skills in presentation, analysis, research, argument, and oral and written communication. To heighten students appreciation of the importance of gender, race, age, class and state in the conduct and study of employment relations.

ECON251 Industry and Trade in East Asia 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject studies the growth of the major economies in East Asia. It examines Japan, Korea, China, Taiwan & Hong Kong and their history of industrialisation in the post-war period, industrial structure, macroeconomic trends and policies. It examines trade patterns and trade policy, and strategic trade theories and policies. Comparisons of growth paths and the role of government will be made. Trade and investment flows in the Asia-Pacific region are analysed and implications for Australia and the Asia-Pacific Region are emphasised.

Subject Objectives: This subject studies the growth of the major economies in East Asia. It examines Japan, South Korea, China, Taiwan and Hong Kong. The topics discussed in this subject include: a. Studies of the major economies in East Asia Brief history of industrialisation in the post-war period

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Subject Descriptions

Industrial structure, Macroeconomic trends and policies Trade pattern and trade policy, strategic trade Comparison of growth paths, and the role of government b. Analysis of Trade & Investment flows in the Asian-Pacific region c. Implications for Australia and the Asia-Pacific Region

ECON292 Industrial Relations A 8cp
Autumn Shoalhaven On Campus
Autumn Bega Education Access Centre On Campus
Autumn Batemans Bay On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: information unavailable
Subject Objectives: information unavailable

ECON301 Monetary Economics 8cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject develops the analysis of macroeconomic policy and public finance begun in the second year. It aims to analyse the working and institutions of the Australian monetary and financial system and markets, and monetary/regulatory policy in the economy. Attention is given to the determination of the money supply and its impact on interest rates, the price level, and the exchange rate.
Subject Objectives: This subject is concerned with developing a thorough understanding of the major contemporary global economic transitions, including that of: the formerly centrally planned economic systems in Central and Eastern Europe and in East Asia as they move towards market oriented economies; the developed economies of Western Europe as they move towards ever more closer forms of trade, investment and financial integration; and the developing market economies of East Asia as they move towards a higher level of economic development. Countries which will be given particular focus include those of Vietnam, China, the Czech Republic, Poland, Hungary, Indonesia, Thailand, and Korea.

ECON302 Transition Economics 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Emphasis will be placed upon transition issues arising for: the formerly centrally planned economies of Europe and Asia as they have moved towards market oriented economies; developed market economies in Europe as existing and prospective members of the European Union move towards a more advanced stage of trade, investment, and financial integration; developing market economies in East Asia as they attempt to achieve a higher level of economic development.
Subject Objectives: This subject is concerned with developing a thorough understanding of the major contemporary global economic transitions, including that of: the formerly centrally planned economic systems in Central and Eastern Europe and in East Asia as they move towards market oriented economies; the developed economies of Western Europe as they move towards ever more closer forms of trade, investment and financial integration; and the developing market economies of East Asia as they move towards a higher level of economic development. Countries which will be given particular focus include those of Vietnam, China, the Czech Republic, Poland, Hungary, Indonesia, Thailand, and Korea.

ECON303 Economic Development Issues 8cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Nation states have attempted to accelerate the rate and influence the pattern of economic growth and development with mixed results. Consequences of economic development have been enormous. Economic Development issues addressed are: relationship between economic growth and development; market and the State; savings, investments and technical change; infrastructure and public goods as well as the role of agriculture; industrialisation; international trade and economic co-operation, and population and human resource development.
Subject Objectives: On successful completion of the requirements of this subject students will be able to: 1. distinguish between economic growth and economic development and learn to measure them.2. identify and examine the major issues involved in strategies of economic growth according to the structuralist and neoclassical schools of thought.3. appreciate and understand the complex and dynamic relationship between market and the State in the process of economic growth.

ECON307 International Monetary Economics 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject is a study of monetary aspects of international economics. It comprises two parts. In Part A we examine theoretical approaches to the balance of payment and exchange-rate determination. In Part B we analyse selected issues in international monetary economics of topical interest.
Subject Objectives: At the conclusion of this subject students will be able to: extend monetary analysis to an open economy framework; identify the various components of the balance of payments and explain the adjustment process of the balance of payments; evaluate the various approaches to the determination of exchange rates; identify some of the current key issues in international monetary economics; evaluate and analyse the problems in these areas.
ECON308  Labour Economics  8cp  Autumn  Wollongong  On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: A study of the labour market and the factors influencing the supply and demand for labour will be the basis for the subject. Wages theory will be discussed as well as Australian practice. The effects of changes in technology on the workforce will be discussed as well as ways of accommodating such changes.
Subject Objectives: At the conclusion of this subject, students will be able to: identify and contrast the main schools of thought within labour economics; analyse current labour market issues from the various perspectives; select and use current labour market data for Australia and selected overseas countries; demonstrate an understanding of the current labour market issues in Australia and selected overseas countries.

ECON309  Environmental Economics  8cp  Spring  Wollongong  On Campus
Contact Hours: 2L1T
Pre-requisites: ECON111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject will provide a comprehensive analysis of environmental issues using both the traditional theory of economic externalities and the newer analysis of ecologically sustainable development. Both approaches will be used to initially evaluate environmental policy in Australia and developing countries. In addition, a component of the course will deal with issues specific to the Illawarra/South Coast Region.
Subject Objectives: To develop a comprehension of the analytical techniques used in environmental economics; to develop an ability to apply economic techniques of analysis to environmental issues; to develop policy analysis skills to critically evaluate Australia's environmental policies; and to assess the impact of alternative economic instruments on policy objectives. To take a comparative approach to world-wide environmental issues, focusing particularly on the Illawarra region and the Asia-Pacific region. To develop the skills of independent study, research, problem solving, report writing, and debating through the presentation of seminar papers and group analysis of environmental economics and policy issues.

ECON310  Cost Benefit - Analysis  8cp  Spring  Wollongong  On Campus
Contact Hours: 2L1T
Pre-requisites: ECON215
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The main objective is to develop theoretical foundations and applied skills in financial, economic, and social evaluation of large public and private sector projects involving priced and non-priced inputs and outputs. Examples from infrastructure, education, health, and conservation projects are used to illustrate the underlying theoretical foundations of cost-benefit analysis and related issues of microeconomics. Topics covered include: welfare foundations of cost-benefit analysis, the derivation of analytical criteria for investment appraisal; the identification of benefits and costs; shadow prices for imperfect product and factor markets; unpriced goods and services; measurement of externalities; and the incorporation of risk and uncertainty.
Subject Objectives: The nature of cost benefit analysis including the relevant theory of economic welfare; the application of CBA in a mixed-market economy; the identification and valuation of project benefits and costs; shadow pricing - concepts and measurements; social time preference and discount rates; discounting methods and project selection criteria; sensitivity analysis.

ECON311  Natural Resource Economics  8cp  Autumn  Wollongong  On Campus
Contact Hours: 2L1T
Pre-requisites: ECON111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The main objective of the subject is to develop skills in the economic analysis of natural resource problems. The course consists of two broad sections, namely: the generalisation of theoretical frameworks for the utilisation of natural resources; and the application of these theoretical frameworks to the management of specific natural resources and to the formulation of appropriate policies. The topics covered include: optimisation frameworks for renewable and non-renewable resources; models for optimal resource use over time; energy resources; material, water resources; forestry resources; natural environments; and issues concerning pollution.
Subject Objectives: On successfully completing this subject students will be: i. familiar with advanced analyses of the economics of natural resources; ii. familiar with the fundamental rules of efficient management and utilisation of renewable and exhaustible natural resources under various market structures; iii. familiar with the optimal control method and inter-temporal optimisation analysis; iv. able to evaluate the actual management and utilisation of natural resources.

ECON312  Industrial Economics  8cp  Autumn  Wollongong  On Campus
Contact Hours: 2L1T
Pre-requisites: ECON111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: A study of factors affecting production and productivity, with particular regard for industrial organisation in Australia. The emphasis will be on the industry, the economic sector, and the regional and national organisation of industry, as they affect decisions on prices, employment, investment, innovation, output and income distribution.
Subject Objectives: Information unavailable
ECON315 Applied Microeconomics  8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ECON111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Microeconomics applied to a variety of topics and social problems. The areas of application studied vary from year to year but include such topics as the economics of health care, education, working women, migration, the arts and crime.
Subject Objectives: information unavailable.

ECON316 History of Economic Thought  8cp
Autumn
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: A survey of economic aspects of the Australian health-care system. Topics covered will include the supply and demand for health services, health-care delivery systems, health insurance, program evaluation and medical decision-making. Government policies influencing all aspects of health care will be analysed and evaluated.
Subject Objectives: On completion of this subject, participants should be able to: recognise the special features of health care markets; identify the major reasons for the increase in health care expenditure and evaluate suggestions for containing or reducing expenditures; discuss the advantages and disadvantages of alternative health care delivery systems; appreciate the difficulties in trying to improve decision making in hospitals; identify the strengths and weaknesses of Medicare and the Pharmaceutical Benefits Scheme; understand the markets for health care professionals; and understand and be able to apply the appropriate methodology for the economic evaluation of a health care program.

ECON317 Economics of Health Care  8cp
Autumn
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Microeconomics applied to a variety of topics and social problems. The areas of application studied vary from year to year but include such topics as the economics of health care, education, working women, migration, the arts and crime.
Subject Objectives: On completion of this subject, participants should be able to: recognise the special features of health care markets; identify the major reasons for the increase in health care expenditure and evaluate suggestions for containing or reducing expenditures; discuss the advantages and disadvantages of alternative health care delivery systems; appreciate the difficulties in trying to improve decision making in hospitals; identify the strengths and weaknesses of Medicare and the Pharmaceutical Benefits Scheme; understand the markets for health care professionals; and understand and be able to apply the appropriate methodology for the economic evaluation of a health care program.

ECON318 Economics of Health Care - A  6cp
Autumn
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: A survey of economic aspects of the Australian health-care system. Topics covered will include the supply and demand for health services, health-care delivery systems, health insurance, program evaluation and medical decision-making. Government policies influencing all aspects of health care will be analysed and evaluated.
Subject Objectives: On completion of this subject, participants should be able to: recognise the special features of health care markets; identify the major reasons for the increase in health care expenditure and evaluate suggestions for containing or reducing expenditures; discuss the advantages and disadvantages of alternative health care delivery systems; appreciate the difficulties in trying to improve decision making in hospitals; identify the strengths and weaknesses of Medicare and the Pharmaceutical Benefits Scheme; understand the markets for health care professionals; and understand and be able to apply the appropriate methodology for the economic evaluation of a health care program.

ECON319 Electronic Commerce and the Economics of Information  6cp
Autumn
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject analyses the impact of electronic commerce on the markets for consumer goods and services and factors of production. Reasons for the dramatic increase in the use of electronic commerce and its effects on consumers, business firms and the wider community will be explored. Special attention will be given to the implications for small and medium-sized firms and the impact of electronic commerce on the globalisation of markets. The subject analyses electronic commerce in the context of the economics of information, technology and transaction costs and investigates the role and value of information in decision making.
Subject Objectives: On completion of this subject, participants will be able to: 1 recognise the types of products traded electronically; 2 evaluate the impact that electronic commerce has had on competition; 3 analyse how electronic commerce affects the pricing decisions of firms; 4 assess the impact of electronic commerce on small and medium-sized firms and their ability to penetrate international markets; 5 evaluate critically and analyses the impact that electronic commerce is having on household decision making, working conditions and industrial relations; 6 evaluates the role of information technology in promoting the dramatic increase in electronic commerce; 7 estimate the value of information, the costs of obtaining information and the benefits of information to the organisation; 8 explain the concepts of asymmetrical information, the efficient market hypothesis and adverse selection and to identify the problems and opportunities they generate.

ECON320 Economics of Small and Medium Enterprises  8cp
Autumn
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Mid-session Quiz and Final exam Research report Presentation Participation
Subject Description: The subject analyses the impact of entrepreneurs/small medium-sized enterprises (SMEs) on important areas of the economy such as innovation, employment creation, trade and investment. The formulation of appropriate public policies with respect to SMEs will also be examined. Recent developments in the economic theory of business enterprises, backed up by case studies of individual firms, industries and countries, will form the basis of the subject. Topics covered will represent a blend of the theory and practice of small business and enterprise development, and will include examining the links between firm size and performance, the distinct roles of different sized firms, and the relationship between firm size and innovation.

Subject Objectives: On completion of this subject, a student will be able to: 1. have a sufficiently profound understanding of entrepreneurship and small business, such that they will be able to explain and evaluate core theoretical concepts which clarify the centrality of the economic and business notions of entrepreneurship for SMEs 2. derive understanding of the processes of development of different sort of SMEs in different contexts, drawing on theoretical and empirical data 3. enhance individual capacity for linking theory and research through guided practical case study project 4. have sufficient understanding and confidence in their understanding of concepts and capacity to link theory and practice they will be able to discuss, debate and evaluate others' ideas on aspects of entrepreneurship and small business 5. to present a coherent argument confidently, lucidly and cogently, demonstrating capacity for integrating core economic concepts and their "practical" implications

ECON322 Mathematical Economics 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: ECON122 or MATH141 or MATH187 or equivalent
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject is a study of mathematical aspects of microeconomics and macroeconomics. The topics include consumer demand theory, compensated demand functions, production theory, cost functions, market demand and supply functions, models or market structure and macroeconomics of open economy. Mathematical techniques include linear algebra, optimisation, differential and integral calculus. Particular attention will be given to economic policy analysis using mathematical models.

Subject Objectives: On successful completion of the subject, students will understand the use of mathematical techniques in economics. Students will be able to apply mathematical techniques to understand the fundamental principals behind economic concepts and to economic policy analysis and formulation. Students will be able to develop various economic models in microeconomics and macroeconomics.

ECON332 Managerial Economics and Operations Research 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ECON228 or ECON230
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: This subject introduces the student to three areas widely used in applied microeconomics and applied macroeconomics: (1) limited dependent and qualitative variables in econometric models and the use of panel data in modelling economic behaviour;

Subject Objectives: information unavailable

ECON331 Financial Economics 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: ECON121 and ECON215
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject deals with investment in production capacity, portfolio analysis, debt accumulation, insolvency and liquidation. Optimal control methods are used for analysing the efficient trajectories of capital investment and borrowing. Portfolio choice and producers' choices of activity sets are analysed within a mean-variance expected utility maximisation framework incorporating the concepts of risk aversion, costs of risk bearing and diversification.

Subject Objectives: On successfully completing this subject students will be: i. familiar with the no-arbitrage rules of efficient saving, borrowing and investing in production capital; ii. familiar with static and inter-temporal optimisation methods and their applications in saving, investment and portfolio analyses; and iii. familiar with economic and financial causes of insolvency and bankruptcy and with external-debt problems.

ECON333 Conflict and Co-Operation 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: HSC 3U Maths or equivalent or permission from Head of Department
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: The subject will introduce students to the study of game theory as a tool for analysing a wide range of situations, particularly in the social sciences. The subject will focus on the application of basic game-theoretic concepts to analyse these situations, and will cover both noncooperative and cooperative games. The latter will include the examination
of issues in communitarian economics (such as the economics of organisations like the WTO, the IMF, World Bank, and other NGOs). Students will participate in simple game-playing exercises designed to reinforce and further their understanding of the concepts.

**Subject Objectives:** At the conclusion of this subject, students should be able to: identify the basic concepts used in the theory of games; apply these concepts in the analysis of situations with strategic aspects; evaluate the strengths and shortcomings of the solution concepts.

**ECON334 Global Economics 8cp**

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**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** ECON101 or ECON111 or ECON190

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** This subject introduces students to major contemporary global economic issues such as global economic growth and per capita income: the external debt crisis: integrated international capital-markets; European monetary unification and its potential: free-trade negotiations and the formation of free-trade zones; the transition of centrally planned economies to market economies; and the economic implications of global environmental and resource degradation and the need for international co-ordination and co-operation.

**Subject Objectives:**
1. To provide students a basic knowledge of the major contemporary and global economic issues.
2. To provide students adequate information for choosing specialised third-year subjects.

**ECON340 Comparative Studies in Industrial Relations 8cp**

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**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Information unavailable.

**Subject Description:** Information unavailable.

**Subject Objectives:** Information unavailable.

**ECON342 Research Topics in Industrial Relations 8cp**

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**Contact Hours:** 2L1T

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** Information unavailable

**Subject Objectives:** Information unavailable

**ECON348 Employers and Industrial Relations 8cp**

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<td>Shoalhaven</td>
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**Contact Hours:** Wollongong - 2L1T; Other - Information unavailable.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** The objective of this subject is to develop an understanding of the pressures and constraints on employers/managers, and the way these influence strategies in the control and administration of the employment relationship. This requires a critical analysis of various theories and styles, as well as practical exercises and evaluation of current trends. The influence of product, labour and financial markets on the strategies and choices will be examined.

**Subject Objectives:** By the end of this subject, the successful student will be able to identify, analyse & discuss: The imperatives of employers in the E*R* in current and historical contexts; The methods which organisations and their managers use to implement to meet their objectives / imperatives; The changing links between external goals of the organisation and internal processes and strategies; The links between theoretical approaches and practical aspects of the management of the employment relationship at workplace and enterprise level and beyond. As well the successful students will: Be competent in advanced library research skills; Have extended their capacity to read and analyse primary documents pertaining to industrial relations; Have extended their capacity to present and communicate ideas and concepts in written work and verbally.

**ECON352 Negotiation, Advocacy & Bargaining 8cp**

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**Contact Hours:** Spring

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** Introduces students to theories, concepts and techniques for developing and evaluating strategies and tactics for advocacy before industrial tribunals and negotiation at the workplace. Students will be assisted to develop a range of practical skills and familiarity with procedures through case studies and role playing, as well as a conceptual framework in which to analyse the role of different advocacy and negotiating strategies.

**Subject Objectives:** The primary objective of ECON352 is to develop students knowledge and practice of the processes of Industrial Relations, including negotiation, bargaining and advocacy. On successful completion of this subject students will have: developed practical skills of negotiation and advocacy in a context of critical assessment, developed an understanding of the place of negotiation and advocacy in the conduct of Australian Industrial Relations, extended their knowledge of the current Australian Industrial Relations legislation.
ECON421 Honours Economics 48cp
Annual Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: Annual - information unavailable; Autumn -3L.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The coursework comprises: advanced macroeconomic theory; advanced micro-economic theory; and the history of economic thought and methodology. The thesis must be a piece of original research and is evaluated by internal and external examiners.
Subject Objectives: information unavailable

ECON452 Joint Honours in Industrial Relations 24cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The coursework consists of components chosen by the Head of the Department of Economics from those required of students in ECON422 Industrial Relations. The other 24 credit points in another discipline must be in 400-level subjects approved by the relevant Head of Department. The thesis must be a piece of original research and is evaluated by internal and external examiners.
Subject Objectives: information unavailable

ECON422 Honours Industrial Relations 48cp
Annual Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The subject comprises coursework, as prescribed by the Head of the Department of Economics, and thesis. The thesis must be a piece of original research and is evaluated by internal and external examiners.
Subject Objectives: information unavailable

ECON441 Honours Labour Relations 48cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The subject comprises coursework, as prescribed by the Head of the Department of Economics, and thesis. The thesis must be a piece of original research and is evaluated by internal and external examiners.
Subject Objectives: information unavailable

ECON423 Honours Econometrics 48cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The course work comprises: advanced macroeconomic theory; advanced micro-economic theory; methodology; and econometric theory. The thesis must be a piece of original research on theoretical or applied econometrics and is evaluated by internal and external examiners.
Subject Objectives: information unavailable

ECON451 Joint Honours Economics 24cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Normally a credit level average of 200- and 300-level subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The course work consists of components chosen by the Head of the Economics Department from those required of students in ECON421 Honours Economics to the value of 24 credit points. The other 24 credit points in another discipline must be in 400-level subjects approved by the relevant Head of Department.
Subject Objectives: information unavailable

COMM341 International and Comparative Employment Relations 8cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to Count for credit with ECON340 and MGMT341
Assessment: See subject program
Subject Description: This subject integrates the traditional industrial relations and human resource management approaches, to focus on the 'global shifts' in industry that are transforming employment relations structures and practices in many countries. It reviews the debates linking these with national competitiveness.
Subject Objectives: On successful completion of this subject you will be able to: Identify and understand the major variables in the functioning of industrial relations systems and HR policies; Appreciate how different mixes of these variables produce different outcomes; Apply comparative perspectives to debates concerning reform of industrial relations systems and HR policies; Critically evaluate industrial relations policies at the macro level and HR policies at the firm level, and the interactions between the two.

COMM450 Honours Employment Relations 48cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject comprises course work, as approved by the Heads of Department of Economics and Management, and a thesis. The thesis must be a piece of original employment relations research which will be evaluated by internal and external examiners.
Subject Objectives: information unavailable

Faculty of Commerce

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INFORMATION SYSTEMS

BUSS102 Computer Systems 6cp
Autumn Wollongong On Campus
Contact Hours: 2L, 2CL
Pre-requisites: Nil.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, mid-session test and final examination.
Subject Description: As an introduction to the fundamentals of computers, this unit studies the principle of operation and the functional components of a modern computer system. It provides a framework to examine the interrelation between hardware and systems and application software, and the current trends in computer technology.
Subject Objectives: On successful completion of this subject students will be able to: understand the relationship between the fundamental hardware components in the computer; demonstrate a clear comprehension of the principles underlying the operation of the computer; distinguish between system software and application software; appreciate the present software technology in the business environment; and be familiar with the trends of advanced technology in the information-based society.

BUSS111 Business Programming I 6cp
Spring Wollongong On Campus
Contact Hours: 2L2CL
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: not to count with CSCI111
Assessment: Assignments, programming tests, final examination.
Subject Description: As an introduction to the fundamentals of programming, this subject aims to develop an understanding of the basic principles of programming, fundamental concepts of data types and simple data structures, as well as to develop skills in the design or well structured solution algorithms to a range of simple classical business computing problems.
Subject Objectives: On successful completion of this subject, students will be able to: create and manipulate computer files; correctly design solution algorithms using structure charts and pseudocode; understand and apply the syntactic and semantic rules of a structured programming language; understand and apply tools and techniques for program testing; understand the use of programming standards, the concepts involved in compilation, linking and execution; understand and apply the concepts of data types and structures.

BUSS201 User-Centred Business Programming 6cp
Autumn Wollongong On Campus
Contact Hours: 2L2CL
Pre-requisites: BUSS111 or CSCI111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial assignments; practical test; final examination.
Subject Description: The broad aim of this subject is to provide students with an in-depth knowledge of user-centered application design using various visual programming concepts and techniques. The subject will provide students with the opportunity to understand and use the principles of user-centered design and computer-user interface design with visual programming tools and techniques and to understand and use the techniques of Joint Application Development and Rapid Application Development for visual program design. Students will learn to program visually utilising appropriate techniques in a commonly available visual programming environment.
Subject Objectives: On successful completion of this subject students will be able to: understand and apply various visual programming concepts, tools and techniques as well as the principles of user-centered design and computer-user interface design; develop a Joint and Rapid Application Development project with visual programming tools and techniques.

BUSS208 Computer Systems Management 6cp
Spring Wollongong On Campus
Contact Hours: 2L2T.
Pre-requisites: 6 cp 200 level BUSS or CSCI subjects
Co-requisites: none
Restrictions: none
Exclusions: none

BUSS110 Introduction to Business Information Systems 6cp
Autumn Wollongong On Campus
Contact Hours: 2L2CL
Pre-requisites: Nil.
Co-requisites: none
Restrictions: none
Exclusions: not to count with CSCI111
Assessment: Assignment, word processing test, spreadsheet test, database test, examination.
Subject Description: This subject examines the roles of information systems in a modern organisation. Topics covered include: computer hardware, systems software and networks, operating systems/productivity tools, standard business systems, file/data management, processes and modelling techniques used in computer systems development, information systems for management and decision support, security and privacy issues. The practical component includes using the internet, word processing, spreadsheets and database systems.
Subject Objectives: On successful completion of this subject, students will have: an appreciation of the roles of information systems in modern organisations; a reasonable understanding of the functions and purposes of various business information systems; and a degree of competency in using productivity tools to support the information requirements of an organisation.
Assessment: Develop evaluation grid, case study report, evaluation on case study and peer review reports, final examination.

Subject Description: Students will be introduced to the issues involved in the successful management of a medium sized computer installation in an organisation. Topics covered will include the role of strategic information systems planning; hardware/software specification; tendering procedures; system evaluation and selection; benchmarking; project management (including the management of people); operational management; quality control; system performance monitoring and testing and systems maintenance.

Subject Objectives: On successful completion of the subject, students will be able to: show an appreciation of the issues confronting information systems planning and development; demonstrate an understanding of the key IT trends and their implications, and relate the aspects of managing (socio-technical) information systems with people in the workplace.

BUSS211 Systems Analysis and Design 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,1T,1CL
Pre-requisites: 6cp 100 level BUSS or CSCI subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments; final examination.

Subject Description: This subject aims to introduce the student to the techniques and technologies of structured systems analysis and design. It examines the complementary roles of systems analysts, clients and users in traditional Systems Development Life Cycle and Object Oriented development methods. Process and Object methods and models are introduced and interface design examined. Program design is placed in the context of systems analysis. The student will make use of a Computer Aided Software Engineering (CASE) tool to document solutions to typical problems.

Subject Objectives: On successful completion of this subject, students will be able to: demonstrate an understanding of the origin and development of formal design methods; demonstrate an appreciation of the relationship between information strategy and organisational structure; demonstrate an understanding of information systems requirements and organisational objectives; demonstrate an understanding of the complementary roles of clients, users and analysts in the development of computer based information systems; demonstrate an ability to design and present a system specification; demonstrate an appreciation of CASE tools as an aid to systems development.

BUSS212 Database Management Systems 6cp
Spring Wollongong On Campus
Contact Hours: 2L,1T,1CL
Pre-requisites: 6 credit points of BUSS100-level or CSCI100-level subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Quiz, assignments, final examination.

Subject Description: This subject aims to introduce students to the theory and practice of designing, implementing and using database management systems. It examines conceptual data modeling using Entity-Relationship Diagrams, introduces the relational data model and discusses techniques for mapping conceptual data models into database designs and the refinement of such designs using normalization theory. Students will acquire skills in relational database querying, using both formal and implemented query languages and will be introduced to the principles of query processing and optimization as well as database file structures. While the subject concentrates on the relational data model, a brief introduction to the object-oriented and object-relational models will also be provided. Students will receive hands-on experience using a commercial tool.

Subject Objectives: On successful completion of this subject, students will be able to demonstrate an understanding of entity relationship modelling and its role in systems development.

BUSS213 Multimedia in Organisations 6cp
Spring Wollongong On Campus
Contact Hours: 2L, 2CL
Pre-requisites: none
Co-requisites: BUSS111 or CSCI111
Restrictions: none
Exclusions: none
Assessment: Assignments, final examination.

Subject Description: The subject introduces students to a range of theoretical knowledge/ideas and practical skills associated with the planning, implementation, delivery and management of a small multimedia project. The subject aims to prepare students for involvement in such projects within organisations where the use of multimedia for a wide variety of purposes is steadily increasing. Students will obtain practical experience in using a range of appropriate software, using theoretical ideas to justify choices of representation within a context that involves some constraints. Students will also gain practical experience in project management in a team-based environment.

Subject Objectives: On successful completion of this subjects students will be able to demonstrate a clear understanding of the theoretical and practical issues that can inform choices of how to structure/organise a piece of multimedia within an organisational setting for a specific purpose and audience within a constrained environment; demonstrate knowledge and skills in the use of appropriate computer hardware/software to produce a multimedia software product; demonstrate knowledge and skills appropriate to the ongoing management of a team-based project involving students with widely different backgrounds and knowledge/skill sets.

BUSS214 Business Programming II 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,2CL
Pre-requisites: BUSS111 or CSCI111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments; mid-session quiz; final examination.

Subject Description: The aims of this subject are to provide students with an introduction to a number of fundamental commercial programming techniques that are applicable to the solution of a wide range of typical commercial/business problems; introduction to structured programming; an overview of program quality issues, including design criteria for improving the structure and quality of commercial programs and an introduction to the use of structure charts and pseudocode as formal program design and documentation tools.
Subject Objectives: On successful completion of this subject, students will be able to: design solution algorithms for a selection of traditional commercial data processing problems using pseudocode and structure charts; code a working, well-structured program from the pseudocode and structure chart.

BUSS215 Business Programming III 6cp
Spring Wollongong On Campus
Contact Hours: 2L,2CL
Pre-requisites: BUSS214
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments and final examination.

Subject Description: This is the second subject in commercial business programming which introduces the student to advanced programming techniques and requires the student to produce useable programming solutions to realistic business problems. Topics covered include advanced data file processing using sequential, indexed sequential and relative files, hash addressing, B-Tree indexing, sorting, merging, interactive processing, control break processing, character manipulation, subprograms, advanced report generation, embedded SQL robustness and useability.

Subject Objectives: On successful completion of this subject, students will be able to: design and implement solutions to a selection of realistic commercial problems involving advanced file structures; make use of sub programming techniques for the implementation of modular programs; use advanced function and features such as advanced report generation and interactive debugging.

BUSS311 Advanced Database Management Systems 6cp
Autumn Wollongong On Campus
Contact Hours: 2L1T, 1Lab.
Pre-requisites: BUSS214
Co-requisites: BUSS212
Restrictions: none
Exclusions: none
Assessment: Assignments and final examination.

Subject Description: This subject provides an introduction to the relational data model and relational database management systems followed by comprehensive coverage of some of the advanced topics related to data and database administration, CASE tools, post-relational database systems and recent developments in the areas of online analytical processing, data mining and the World Wide Web (WWW). Discussion of these relatively recent and advanced topics is expected to equip the student to meet the challenges in database management and advanced applications development in contemporary organisations. Students will be presented with opportunities to do hands-on work with appropriate commercial tools.

Subject Objectives: On successful completion of this subject, the student will be able to: develop a good understanding of the critical issues in data and database administration; demonstrate a good understanding of the scope and functionalities of object-relational and object-oriented database management systems; demonstrate an understanding of the role, features and limitations of CASE tools in system design and development; understand the key conceptual issues and be conversant with some of the practical tools in the emerging areas of database management.
Subject Objectives: On successful completion of this subject, students will be able to: understand and apply factors that need to be considered for successful systems design; work effectively in small groups to design a small commercial system; describe and carry out the processes involved in the acquisition of computer based information systems including cost-benefit and needs analysis, RFT design and evaluation, detailed planning for the maintenance of commercial systems; communicate effectively with clients, users and other development team members.

BUSS391 Special Topic in Information Systems 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Summer 2002/2003 Wollongong On Campus
Contact Hours: 4hrs contact/week - seminars.
Pre-requisites: approval needed from Head of Department.
Co-requisites: none
Restrictions: approval needed from Head of Department.
Exclusions: none
Assessment: Assignments; Reports; Examination.
Subject Description: In this subject students will undertake a study of research methods or other topic of current interest in Information Systems. Its purpose is to give final year BComm(BIS) students an opportunity to explore in depth, a current and advanced topic in Business Information Systems.

Subject Objectives: At the successful completion of this subject students will demonstrate knowledge, understandings and skills in an advanced topic in Information Systems.

BUSS408 Business Information Systems Honours - Part 1 36cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Students must have approval from the Head of Department in order to enrol in this subject.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research Report; Assignments; Progress Reports.
Subject Description: This subject is specifically for those undertaking an honours program in Business Information Systems who wish to complete the program of study over 18 months. This subject would be followed by BUSS409 in the next Autumn session and together with BUSS409 is equivalent to BUSS410.

Subject Objectives: At the successful completion of this subject students will demonstrate detailed knowledge and skills in a specific information systems topic.

BUSS409 Business Information Systems Honours - Part 2 12cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Students must have approval from the Head of Department in order to enrol in this subject.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research Report; Assignments; Progress Reports.
Subject Description: This subject follows BUSS408 for those who are undertaking over 18 months an honours program in Business Information Systems. This subject together with the subject BUSS408 is equivalent to BUSS410.
Subject Objectives: At the successful completion of this subject students will demonstrate detailed knowledge and skills in a specific information systems topic.

**BUSS410 Business Information Systems Honours**

48cp

Annual Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: Students must have approval from the Head of Department in order to enrol in this subject.

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Research Report; Assignments; Progress Reports.

Subject Description: The minimum entry requirement to the honours program is the completion of a major study in Business Information Systems with results significantly above pass level. Students wishing to proceed to honours should consult the Head of Department or Course Coordinator as soon as their interest in doing so is known. Students will be required to complete satisfactorily BUSS929 as part of the coursework component of their honours program.

Subject Objectives: At the successful completion of this subject students will demonstrate detailed knowledge and skills in a specific information systems topic.

**BUSS450 Joint Honours in Business Information Systems**

48cp

Annual Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: Students must have approval from the relevant Heads of Departments in order to enrol in this subject.

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Research Report; Progress Reports; Assignments.

Subject Description: The entry requirement to the Joint Honours program is similar to the Business Information Systems Honours program above, except that candidates will be permitted to undertake an honours program in Business Information Systems and in a cognate discipline offered by another academic unit of the University. The course work component and thesis topic for research must be chosen in consultation with the heads of both the academic units involved.

Subject Objectives: At the successful completion of this subject students will demonstrate detailed knowledge and skills in a specific topic involving information systems and another discipline area.
COMM100 Introduction to Employment Relations 6cp

Spring Wollongong On Campus

Contact Hours: 2L1T

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: See subject program

Subject Description: This subject is offered in two discrete sections. It introduces students to several approaches to understanding employment, the management of labour, and work. It draws on social sciences, behavioural sciences and business sciences, in particular various forms of industrial/employment relations, and human resource management. Section one investigates the importance of context for analysing the factors that determine or influence the nature and organisation of paid work and employment at managerial and non-managerial levels. Section two is an introduction of the key concepts and techniques of contemporary human resource management. Based on an open systems approach to understanding organisations, it examines how these concepts and techniques can be used to manage the processes of organisational entry, exit and job performance.

Subject Objectives: information unavailable

COMM300 Innovation and Electronic Commerce 6cp

Spring Wollongong On Campus

Contact Hours: 2L1T

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: See subject program

Subject Description: This subject will provide training and development on some of the theoretical and professional issues involved in using the Internet for product and process innovation. The focus will be on the strategic implications for electronic commerce as a source of competitive advantage. The application will concentrate on the use of the Internet as a strategic marketing tool but will also examine it as a source of information which may be exploited for both product and process innovation. The subject content will have an international focus by exploring the use of the Internet as a source of competitive advantage within the international business context.

Subject Objectives: information unavailable

COMM341 International and Comparative Employment Relations 8cp

Spring Wollongong On Campus

Contact Hours: 2L1T

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: Not to Count for credit with ECON340 and MGMT341

Assessment: See subject program

Subject Description: This subject integrates the traditional industrial relations and human resource management approaches, to focus on the 'global shifts' in industry that are transforming employment relations structures and practices in many countries. It reviews the debates linking these with national competitiveness.

Subject Objectives: On successful completion of this subject you will be able to: Identify and understand the major variables in the functioning of industrial relations systems and HR policies; Appreciate how different mixes of these variables produce different outcomes; Apply comparative perspectives to debates concerning reform of industrial relations systems and HR policies; Critically evaluate industrial relations policies at the macro level and HR policies at the firm level, and the interactions between the two.

MGMT102 Business Communications 6cp

Spring Wollongong On Campus

Autumn Wollongong On Campus

Summer 2002/2003 Wollongong On Campus

Contact Hours: Autumn/Spring - 2L1T; Summer 2002/2003 - information unavailable.

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: See subject program

Subject Description: The subject addresses, in turn, learning styles and learning processes; informal networks; ways of finding information in an organisation; diffusion of innovative ideas and practices; the context for communication formed by culture, sense of identity, and community membership; status, power, and persuasion strategies; culture and gender differences; communication between technical and nontechnical people; framing criticism and interpreting stories to promote learning in the organisation; facilitating teamwork and meetings; and integrating aspects of formal and informal communication to obtain a job or make a project work.

Subject Objectives: information unavailable

MGMT110 Introduction to Management 6cp

Spring Wollongong On Campus

Spring Shoalhaven On Campus

Spring Batemans Bay Flexible

Spring Bega Education Access Centre

Autumn Wollongong On Campus

Intake B Sydney Modular

Summer 2002/2003 Wollongong On Campus

Contact Hours: Wollongong Autumn/Spring 2L1T; Other - information unavailable.

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: See subject program

Subject Description: The subject examines a range of topics relevant to managers including: teams, leadership, decision making, motivation, strategy, business ethics and interorganisational relations (eg networks and strategic
alliances). A number of themes are addressed throughout the subject such as diversity (gender and cross-cultural influences), power and control, and organisational learning. Organisational learning is seen as one of the key challenges facing managers.

**Subject Objectives:** information unavailable

**MGMT200 Management and Electronic Business** 6cp

**Pre-requisites:** Must have completed a minimum of 48 credit points of subjects from the Commerce, Information Technology or Engineering schedules.

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** This subject identifies key management issues arising from the use of e-commerce in organisations and across organisations and in different industry sectors. It critically examines how e-commerce will impact across areas such as information and knowledge management, decision making, teamwork, communication, including the building of trust based relations across a complex array of organisational contexts. The subject will examine the different types of relationships, both internally and externally to the organisation, emerging from the e-commerce revolution. It will consider the 'new economy thesis' as it relates to e-commerce, and the managerial choices and strategies arising from such developments.

**Subject Objectives:** information unavailable

**MGMT201 Organisational Behaviour** 6cp

**Contact Hours:** 2L, 1T

**Pre-requisites:** MGMT101 or MGMT110 or PSYC351

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** The subject examines aspects of the Behavioural Sciences which are relevant to an understanding of human behaviour in work organisations. These will include: topics relevant to the understanding of the behaviour of individuals within work settings; topics relevant to the understanding of large organisations in their totality and studies of the behaviour of individuals and groups within complex organisations combining insights from conflict, co-operation, competition, power, leadership and organisational culture and change.

**Subject Objectives:** information unavailable

**MGMT202 Management of Change** 6cp

**Contact Hours:** 2L, 1T

**Pre-requisites:** MGMT101 or MGMT110 or PSYC351

**Co-requisites:** It is recommended that students complete MGMT201 prior to enrolling in MGMT202

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** This subject identifies sources of change, barriers to change and effective ways of overcoming these. Managing change and forces for change; initiating change, implementing change and overcoming resistance.

**Subject Objectives:** information unavailable

**Communication, participation, negotiation and support/sponsorship.**

**MGMT204 Government Regulation and International Business** 6cp

**Contact Hours:** 2L, 1T

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** The development of regulation: from national to international, reducing regulatory barriers to international and interjurisdictional trade: making and explaining regulation; regulating the structure and organisations of the firm. Regulation, the firm and business transactions in comparative perspective. Managers and employees: roles, relationships and regulations. Consumers, business and regulation. Regulating industry. Regulating standards and performance. Regulating Finance and Capital. Regulating agriculture; Regulating Pharmaceuticals. Regulatory reform.

**Subject Objectives:** information unavailable

**MGMT205 Recruitment & Selection** 6cp

**Contact Hours:** 2L, 1T

**Pre-requisites:** MGMT206 or MGMT398

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See subject program

**Subject Description:** This subject examines the environment and process of recruitment and selection. Recruitment strategies are described and assessed from the perspective of the organisation and the individual. In particular, a range of personnel selection techniques are examined in relation to reliability, validity, fairness and applicability. Also a range of practical skills in designing personnel selection techniques are developed.

**Subject Objectives:** information unavailable

**MGMT206 Managing Human Resources** 6cp

**Contact Hours:** 2L, 1T

**Pre-requisites:** MGMT110

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** not to be counted with MGMT398

**Assessment:** See subject program

**Subject Description:** The subject is concerned with the concepts, techniques and activities involved in managing the flow of people through work organisations. The subject focuses on facilitating the acquisition and development of staff, positively influencing their job performance, and monitoring and managing the processes of staff retention and turnover. Consideration is given to the institutional aspects of the external environment in which human resource management is located. Topics include: recruitment and selection, performance appraisal, job analysis and design, training and development, employee compensation, staff turnover, HRM and the law, industrial relations, EEO/AA, and international HRM.

**Subject Objectives:** information unavailable
MGMT215 Small Business Management 6cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: ACCY101 or ACCY100 & ACCY102
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The Small to Medium Enterprise (SME) is becoming increasingly important to the Australian economy. Working in, starting and operating a SME will probably become a reality for many students in the future. Hence, this subject has a practical focus by giving students an opportunity to develop an awareness and understanding of the key factors involved in successfully starting, operating and growing a SME. An investigation of the major growth area of Franchising is included.
Subject Objectives: information unavailable

MGMT216 Operations Management 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: ECON121 and ECON111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: A study of the different types of production and operations and their implications for management - including an overview of capacity, facility and layout planning, problems of job design and work measurement, production scheduling, inventory and quality control and management of the conversion process in a time of change.
Subject Objectives: information unavailable

MGMT218 Competitive Analysis 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: ECON111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject develops models and techniques for measuring and understanding the complexity of competition. Case studies and empirical analysis are used to show how firms can analyse its industry, understand its competitors and its own position, and how this might influence its business strategy. Topics include: Structural analysis of industries; Competitive strategies/framework for analysis; Development of generic strategies; Strategy towards buyers/suppliers; Strategy in different industrial environments; Strategic decisions/competitor analysis; Strategy in a multinational competitive environment.
Subject Objectives: information unavailable

MGMT220 Organisational Studies 6cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: MGMT101 or MGMT110 or PSYC351
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject examines the structural characteristics of organisations in their environments and the different perspective's from which structures and environments can be understood to affect organisations members and organisational performance. Topics include: Organisational Design-Modern and future forms; Organisational Structure; Organisational Strategy and Size; Technology and Environment-Organisation, Technology and Control; Organisation, Technology and Design; Modern Organisation-Bureaucracy; Managing Culture and Subculture-Organisational Conflict-Power and Politics; Evolution, Growth and Decline.
Subject Objectives: information unavailable

MGMT301 Managing Across Cultures 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject examines how to manage effectively across cultures in international business. It seeks to integrate theory with practical application through an interactive teaching delivery achieved through active class participation, role-plays and simulated business situations. The subject will focus on the challenges presented by culture in international business and how to manage them. On successful completion of this subject, students will have an appreciation and knowledge of managing across cultural boundaries in international business.
Subject Objectives: information unavailable

MGMT302 Business In Europe 6cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject examines how to manage effectively across cultures in international business. It seeks to integrate theory with practical application through an interactive teaching delivery achieved through active class participation, role-plays and simulated business situations. The subject will focus on the challenges presented by culture in international business and how to manage them. On successful completion of this subject, students will have an appreciation and knowledge of managing across cultural boundaries in international business.
Subject Objectives: information unavailable

MGMT305 Business In Asia 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject examines how to manage effectively across cultures in international business. It seeks to integrate theory with practical application through an interactive teaching delivery achieved through active class participation, role-plays and simulated business situations. The subject will focus on the challenges presented by culture in international business and how to manage them. On successful completion of this subject, students will have an appreciation and knowledge of managing across cultural boundaries in international business.
Subject Objectives: information unavailable
Subject Description: This subject aims to provide students with the knowledge and skills to either work in Asia and/or work with Asians in an international business context. It provides an understanding of Asian markets, Asian firms, and Asian business cultures and logic. It examines ways Western managers and firms may adopt a strategic approach to operating in Asia, in terms of competing for customers and resources, and in cooperating through joint ventures and other business alliances. Its main theoretical framework is to identify the firm’s strategic objectives, competitive positioning, investment decisions, and organisational processes to achieve success in Asia.

Subject Objectives: information unavailable

MGMT306 Business In Australia 6cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject provides students with an introduction to conducting business in Australia. It examines the nature of business in Australia at the government, industry, firm and individual levels. It explores the political, legal, economic, and socio-cultural aspects of business in Australia. It also examines the strategy and operations of several leading local and overseas firms operating in Australia. It aims to provide students with an interesting and practical understanding of Australian business and is also a good introduction to the realities of business.

Subject Objectives: information unavailable

MGMT308 Introduction to Management For Professionals A 6cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: This subject is not available to Commerce students. Students from other Faculties other than Science require approval of the subject coordinator.
Exclusions: none
Assessment: See subject program

Subject Description: This subject gives an introduction to the environment of the business enterprise and key managerial concepts and techniques. Topics to be introduced include: the environment and the business enterprise, managerial decision-making, planning finance and costs, markets and marketing, technology management; competitive strategy; operations management and project management.

Subject Objectives: information unavailable

MGMT310 Introduction to Management For Professionals B 8cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: none
Co-requisites: none
Restrictions: This subject is not available to Commerce Students
Exclusions: none
Assessment: See subject program

Subject Description: Same subject content as MGMT308, but with additional coursework, case studies and assignments.

Subject Objectives: information unavailable

MGMT314 Strategic Management 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: MGMT101 or MGMT110 or PSYC351 plus MARK213 or MARK101 or MGMT218 or MGMT220
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: The subject deals with policy formulation and planning functions in the business enterprise. Topics include: Business mission; Customer and competitor analysis; Industry analysis; Environmental analysis; Strategy and organisation; Alternative business strategies. Stress will be laid on the process by which opportunities and threats to the business enterprise are recognised and evaluated, and on the strategies required to meet these.

Subject Objectives: information unavailable

MGMT321 Occupational Health and Safety Management 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: MGMT398 or MGMT206 or PSYC351
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject provides students with an understanding of key concepts and their application in the management of occupational health, safety and rehabilitation. Topics include: nature of occupational injury and disease, technical and motivational controls, role of specialists, impact of the legal-political context, benefit-cost analysis, risk assessment, emergency and disaster management, mobilisation of networks, design of accident investigation, hazard assessment and reporting systems and impact of work organisation.

Subject Objectives: information unavailable

MGMT322 Training & Development 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: MGMT398 or MGMT206 or PSYC351
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: This subject provides students with an understanding of key concepts and practical approaches to the development of people in organisations. Topics include: theories and models of learning; job analysis; identification of training needs; training delivery forms and their selection; skills development and training; multi-skilling and flexibility; management development; succession planning; national and international frameworks of training; competence-based approaches; organisational learning and the learning organisation; organisational development; evaluation of training and development.

Subject Objectives: information unavailable
MGMT332 Enterprise and Innovation 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: ACCY101 or ACCY100 & ACCY102 plus MARK213 or MARK101
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: True Entrepreneurship and Innovation are key to the future economic development of Australia. The innovation and entrepreneurial processes are important for Small to Medium Enterprises (SMEs) and large organisations. Students will learn how to differentiate between a good idea and a real business opportunity. A key part of this subject is the development of a realistic written business plan for an innovative business opportunity and its presentation via an action learning process utilising teams.
Subject Objectives: information unavailable

MGMT350 Total Quality Management 6cp
Spring Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: MGMT101 or MGMT110 plus ECON121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject includes topics covering Total Quality Management (TQM) practices, TQM as a part of Corporate Strategy, Quality Circles, Statistical tools and controls for TQM, TQ in service and manufacturing environments; applications, implementation and auditing of TQM.
Subject Objectives: information unavailable

MGMT351 Business Ethics 6cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: 72 cp
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: An examination of the central issues in business ethics, covering topics such as the concept of social responsibility, individual and corporate values, models for making ethical decisions, ethics for the employee, the customer, the environment, the community, the government and the multinational context. The class consists primarily of student-centred discussion and experiential activities. The semester is arranged to take students through a reflective, unlearning process.
Subject Objectives: information unavailable

MGMT389 International Business Management 6cp
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: MGMT110 AND MARK213 or MARK101 OR MGMT218
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject deals with the international business environment and the key issues involved in operating in international and global markets. The international and global business environment, entry modes, global strategies, functional strategies and the management and control of international/global operations are covered. On completion of this subject, students will have an understanding of international business and be able to apply key concepts in analysing and developing international business strategies.
Subject Objectives: information unavailable

MGMT398 Human Resource Management 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2L1T
Pre-requisites: MGMT101 or MGMT110
Co-requisites: none
Restrictions: none
Exclusions: not to count with MGMT206
Assessment: See subject program
Subject Description: This subject is concerned with concepts, techniques and activities involved in managing the flow of human resources through organisations. Emphasis is placed on understanding the techniques of contemporary HRM that can be applied in organisations to facilitate the acquisition and development of staff, to influence positively their job performance, and to manage the processes of staff turnover and retention. The theoretical foundations and practical application of these techniques is emphasised.
Subject Objectives: information unavailable

MGMT404 Honours International Business 48cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Normally a credit level average of 200 and 300 level subjects.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject comprises coursework, as approved by the Head of Department of Management and thesis. This thesis must be a piece of original international business research which will be examined by internal and external examiners.
Subject Objectives: information unavailable

MGMT405 Joint Honours in Management 48cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Normally a credit level average of 200 and 300 level subjects.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject comprises coursework, and thesis in management and in another cognate discipline (as approved by the Heads of both the academic units involved). The thesis must be a piece of original research which will be examined by internal and external examiners.
Subject Objectives: information unavailable
Name: MGMT406 Honours Human Resource Management  
Type: 48cp  
Venue: Annual  
Wollongong  
On Campus  

**Contact Hours:** information unavailable  

**Pre-requisites:** Normally a credit level average of 200 and 300 level subjects.  

**Co-requisites:** none  

**Restrictions:** none  

**Assessment:** See subject program  

**Subject Description:** This subject comprises coursework, as approved by the Course Coordinator in the Department of Management and thesis. This thesis must be a piece of original human resource management which will be examined by internal and external examiners.  

**Subject Objectives:** information unavailable  

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Name: MGMT407 Joint Honours in Human Resource Management  
Type: 6cp  
Venue: Annual  
Wollongong  
On Campus  

**Contact Hours:** information unavailable  

**Pre-requisites:** Normally a credit average of 200 and 300 level subjects  

**Co-requisites:** none  

**Restrictions:** none  

**Assessment:** See subject program  

**Subject Description:** This subject comprises coursework and thesis in human resource management and in another cognate discipline (as approved by the Course Coordinator of both the academic units involved). The thesis must be a piece of original research, which will be examined by internal and external examiners.  

**Subject Objectives:** information unavailable  

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Name: MGMT428 Honours Research Project  
Type: 24cp  
Venue: Annual  
Spring 2002/ Autumn 2003  
Wollongong  
On Campus  

**Contact Hours:** information unavailable  

**Pre-requisites:** As for MGMT429  

**Co-requisites:** none  

**Restrictions:** none  

**Assessment:** See subject program  

**Subject Description:** A research topic agreed with by the Head of the Department of Management in any field of management study.  

**Subject Objectives:** information unavailable  

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Name: MGMT429 Advanced Topics in Management (Honours)  
Type: 24cp  
Venue: Annual  
Spring 2002/ Autumn 2003  
Wollongong  
On Campus  

**Contact Hours:** information unavailable  

**Pre-requisites:** Normally a minimum of 50% of 200-/300-level major subjects achieved at credit level or higher plus no subject failures  

**Co-requisites:** none  

**Restrictions:** none  

**Exclusions:** none  

**Assessment:** See subject program  

**Subject Description:** A course of study prescribed by the Head of Department for honours students in one or more of the following areas: Strategy, HRM (including International HRM), Organisation, Enterprise Development, Operations Management and International Business Operations.  

**Subject Objectives:** information unavailable
MARKETING

MARK101 Introduction to Marketing 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Spring Shoalhaven On Campus
Spring Batemans Bay Flexible
Spring Bega Education Access Centre
Contact Hours: Wollongong - 2L 1T; Other - information unavailable
Pre-requisites: Nil
Co-requisites: Nil
Restrictions: none
Exclusions: Not to count with MARK213, MARK293 or MGMT213
Assessment: See subject program
Subject Description: The subject will include the following: concepts and tools for analysing marketing strategies; evaluating the marketplace for opportunities; analysing the marketing environment; researching and selecting target markets; determining the consumer's needs; evaluating the marketing mix in terms of price, product, place and promotion. Aspects of international marketing, services marketing and social responsibility will also be taught.
Subject Objectives: On successful completion of this subject, students will be able to: 1 understand the broad concept of marketing 2 identify and analyse opportunities in the marketing environment 3 examine a wide array of market segments and consumer groups 4 describe the "marketing mix" with regard to developing the marketing activities of an organisation: designing, pricing, placing and promoting products and services. 5 explain the international marketing environment 6 discuss ethics and social responsibility in marketing. 7 prepare marketing assignments using the tools and concepts learned in the subject.

MARK217 Consumer Behaviour 6cp
Autumn Shoalhaven On Campus
Autumn Batemans Bay Flexible
Autumn Bega Education Access Centre
Spring Bega Education Access Centre
Spring Batemans Bay Flexible
Spring Shoalhaven Flexible
Spring Autumn Wollongong On Campus
Contact Hours: Wollongong - 2L 1T; Other - information unavailable
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Consumer Behaviour involves gaining a greater understanding of the consumers as individuals by studying perception, learnign and memory, motivation and values, personality, lifestyles, attitudes and attitude change. Additionally the content of this subject focuses upon consumers as decision makers, involving an examination of the entire purchase process. Other areas of interest include household and organisational decision making, and the influence of culture on consumption.
Subject Objectives: Upon completion of the course, students should be capable of: 1 understanding the main concepts and frameworks of consumer behaviour 2 Applying consumer behaviour theory to practice 3 Understanding academic and practitioner consumer behaviour research 4 Undertaking research using electronic databases and other similar research tools 5 Productively working in a group 6 Communicating your analysis and understanding of consumer behaviour in an effective manner through both written reports and oral presentations.

MARK239 Information For Marketing Decisions 6cp
Spring Wollongong On Campus
Contact Hours: 2L,1T
Pre-requisites: ECON121 - may be waived for non-Commerce students
Co-requisites: none
Restrictions: none
Exclusions: Not to count with ECON231
Assessment: See subject program
Subject Description: Four main topic areas will be covered: 1. Working with marketing-related information, i.e. data either resulting from marketing and sales activities or which can be obtained from other sources such as the World Wide Web; 2. The use of research to facilitate decision-making (an introduction to the market research process and methods); 3. The analysis of different types of quantitative marketing data (market analysis, forecasting, and introductory statistical analysis); 4. The use of computer programs to manage and analyze marketing information (i.e. databases, spreadsheets, and statistics packages).
Subject Objectives: This subject will provide students with a background to the methods which can be used to access, generate and analyze information to support marketing decisions. The subject will take an applied approach, and will draw its cases and examples specifically from the field of marketing. The overall aim will be to introduce research methods and quantitative analysis as they are applied in marketing, and so provide a foundation for the advanced Marketing subjects.

MARK240 Marketing and Consumer Behaviour in East and South - East Asia 6cp

Autumn Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Perhaps the most spectacular development and growth recently in international business is the shift in the world economy's focus to East and South-East Asia (ESEA). Given the importance of international marketing within this geographical region, the purpose of this subject is to present various concepts and tools for analysing marketing and consumer behaviour strategies in ESEA. Specifically, the focus of this subject will be on various ESEA countries or strategic locations, considering eight influencing factors on marketing and consumer behaviour: geographical forces; infrastructure development; the political system; the economic system; the social/cultural system; the education system; consumption patterns; and, the macro marketing mix.
Subject Objectives: On successful completion of the subject, students will be able to: 1. Identify marketing opportunities within the business environments in ESEA. 2. Explain marketing and consumer behaviour patterns within various ESEA countries. 3. Analyse cases, international business and government reports, and country briefs on various business problems/opportunities in ESEA. 4. Enhance problem-solving skills by analysing international marketing strategy at the corporate, regional and local levels. 5. Develop a comprehensive course of action for a business firm to market products/services in ESEA country(s). 6. Present final term project using both oral and written communications.

MARK270 Services Marketing 6cp

Spring Shoalhaven On Campus
Spring Batemans Bay Flexible
Spring Dega Education Access Centre Flexible
Autumn Wollongong On Campus
Contact Hours: Wollongong - 2L 1T; Other - information unavailable
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This course is designed to provide an in-depth analysis of the problems facing services marketing managers. Through lectures, class discussion, readings and case analysis, students will develop insights concerning the unique characteristics of marketing in the services sector. Each week students will be required to present their solutions to the questions handed out at the end of the previous lecture. These questions will be based on readings from the required text and articles from leading services marketing journals.
Subject Objectives: The objective of the subject is to provide a theoretical and practical perspective to services marketing. At the end of the subject, the student should understand the concepts in the text and be able to apply them.

MARK301 Marketing on the Internet 6cp

Spring Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject will include the following: general overview of the internet, nature of the internet, hypertext, markup language, transfer protocol, resource locators, sales over the internet, public relations over the internet, advertising over the internet, world wide web and demographics, value-added web sites, performance indicators of marketing effort, security and legal issues, development of home pages.
Subject Objectives: After completing this course, students should be able to: * Gain an understanding of the Internet, the Web and ways of using this technology. * Understand and be able to use the technology involved, including editors and advanced browsing. * Construct an effective web site or home page for a business or other organisation with relevant links for users. * Gain an understanding of the different issues in different types of applications. Specifically: a primary business platform; a support for business process improvement; a means for customer feedback and relationship development; and, a business tool for advertising and/or research. * Be aware of ethical and legal issues relating to internet use. * Describe what constitutes a "good" or "bad" website for specified purposes.

MARK317 Business to Business Marketing 6cp

Spring Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject covers issues particular to the situation where one business markets a product or service to another business (rather than to an individual consumer). The objectives are to educate students regarding the major theoretical concepts and processes involved in business to business marketing, and the application of these concepts to real life situations through the use of case studies and 'real life' examples.
Subject Objectives: The specific course objectives are: 1. To build up student's knowledge of contemporary business marketing. 2. To lay out the differing process of analysing business markets in terms of demand estimation and sales forecasting. 3. Emphasise the unique nature of business marketing and the applicability of the marketing concept in such markets. 4. Exploring the need for distinctive marketing planning and strategy to compete in the complex and dynamic business markets. 5. To create a critical awareness in the minds of the students about the latest development of the
subject through interactive class discussion, presentation, strategy analysis and recommendations.

MARK319 Applied Marketing Research 6cp
Autumn Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101 and MARK239) or (MARK213 and MARK239) or (MARK293 and MARK239)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: This subject will focus on the practice of marketing research as it is applied within organizations, such as market research companies, and will build on the material introduced in MARK 239. The emphasis will be on research which is designed and conducted specifically to meet the information needs of clients. It will cover the market research process from initial client consultation through to the reporting of research findings. The topics covered will include: an introduction to research methodology, the design of research studies to meet client needs, the use of secondary data sources, qualitative research methods (i.e. focus groups, in-depth interviewing, and projective techniques), experiments and market testing, the design and management of surveys (including practical sampling and questionnaire design), and the analysis of survey data.

Subject Objectives: On completion of this subject, students should be able to: * demonstrate that they understand the nature of market research and the role that it plays in organisations; * demonstrate that they understand the theory and practice of behavioural research methodology as it is applied to market research; * develop an understanding of the proposal document development for a client, with a vision of winning the desired research project under competitive conditions; * select appropriate market research methods in order to meet the information needs of clients; * collect and analyse information using both qualitative and quantitative research methods; * design, execute and report on a client-focused market research study.

MARK333 Advertising and Promotions Strategy 6cp
Spring Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: Marketing Communications focuses on the key elements of the marketing communications mix P Promotion, Advertising, Publicity, Personal Selling. The course will examine the various communication channels used by programs.

Subject Objectives: To provide a theoretical and practical perspective to marketing communications. At the end of the subject, the student should be able to: 1. understand the advertising and promotions management concepts; and 2. apply the concepts in integrated marketing communication programs.

MARK343 International Marketing 6cp
Spring Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program
Subject Description: The principal aim of the subject is to analyse the global marketing environment and develop appropriate international marketing strategies. The content will include: socio-economic, legal, political, financial and cultural factors affecting international marketing operations; analysing the profiles of selected regional markets and strategic options for entry and expansion in those markets; international marketing research methods and data analysis techniques; international marketing mix decisions; and contemporary issues in multination marketing.

Subject Objectives: At the completion of this subject students should be able to: 1. Utilise cases, readings and international business reports to evaluate corporate problems/opportunities in an international environment. 2. Identify and analyse opportunities within international marketing environments using various strategic marketing management techniques. 3. Enhance problem-solving skills by analysing international marketing strategy at the corporate, regional and local levels. 4. Use financial and quantitative analysis to evaluate the current and projected performance of a company, and/or marketing opportunities. 5. Develop a comprehensive course of action for a business firm using formal decision making processes. 6. Complete final written project using skills acquired throughout the subject.
Subject Description: New Product Marketing covers issues related to the development and marketing of new products. Topics include: the role of new products in the success of organisations, the new product development process, marketing mis issues concerned with new products, organisation and management of new product development processes, diffusion of new products, new service development functions of product managers.

Subject Objectives: Upon completion of this subject, students should be able to: * Explain the various stages of the NPD process through from concept generation to product launch. * Explain the purpose and use of the various qualitative and quantitative methods associated with idea generation, concept testing, sales forecasting, product testing and market testing. * Develop a new product marketing strategy. * Demonstrate an understanding of the critical factors that can lead to the success or failure of a new product.

MARK356 New Product Marketing 6cp
Autumn Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: Sales Management focuses on the personal selling concept and exposes students to the use of practical interpersonal skills in persuasive group presentations. The sales management process is explored, with emphasis on prospecting, planning, handling objections and closing the sale. The role of sales management in the development of the salesforce, and the characteristics of leadership and supervision, are also covered.

Subject Objectives: On completion of this subject, students will be able to: 1. Discuss and explain the unique issues associated with managing a salesforce. 2. Formulate a practical interpersonal skills in persuasive group presentations. 3. Summarise their findings in the form of a report.

MARK359 Sales Management 6cp
Spring Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: Tourism Marketing introduces, discusses and analyses issues unique to the marketing of tourism products. The focus of this subject is the application of marketing principles and theory in the development of strategic marketing plans for tourism products. The application of strategic tourism marketing planning to the destination, accommodation and tour operator sectors of the tourism industry at the regional, national and international level are analysed. In addition, the subject identifies and discusses contemporary issues in tourism marketing including the impact of e-commerce, database marketing and environmental based tourism.

Subject Objectives: On completion of this subject, a student will be able to: 1. Discuss and explain the unique issues associated with marketing a tourism product. 2. Formulate a strategic marketing plan for a tourism product. 3. Critically evaluate the marketing efforts of regional, national or international tourism organisation in the destination, accommodation or tour operator sectors of the tourism industry. 4. Describe and assess the importance of the 'service encounter' to tourism marketing. 5. Analyse the likely future impact of technology and 'green consumerism' on tourism marketing.

MARK394 Special Topic in Marketing B 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MARK101/MARK213
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: Selected issues in marketing. Enrolment is subject to approval of the Head of the Department of Marketing.

Subject Objectives: Information unavailable.

MARK395 Tourism Marketing 6cp
Autumn Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: MARK101/MARK213
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: Special Topic in Marketing is subject to approval of the Head of the Department of Marketing.

Subject Objectives: Information unavailable.

MARK397 Retail Marketing Management 6cp
Spring Wollongong On Campus
Contact Hours: 2L 1T
Pre-requisites: (MARK101) or (MARK213) or (MARK293)
Co-requisites: none
Restrictions: none
Exclusions: none
Faculty of Commerce

Subject Description: Retail Marketing Management will include a background to retailing, the scope of retailing, retailing strategies, merchandise and store management. Additionally topics such as location, non-store retailing, human resource management, logistics, promotion, pricing, customer service and store layout are also studied. Particular emphasis will be placed on case analysis in order to bring as much of the 'real world' as possible into the classroom.

Subject Objectives: Upon completion of this course, the student should be able to:  
* appreciate the complexities of operating a retail business.  
* understand the role of the retailer as a key link in the chain that connects the producer/wholesaler with the final customer  
* distinguish retailers and their activities from other mktg institutions  
* delineate the mktg channel of distribution and to discern the relationships between the retailer and other channel participants  
* understand the mktg and retailing concepts and to appreciate how these operating philosophies should direct the retailer's activities  
* discuss the retailer's problem of striking a balance between the customer's merchandising needs and the retailer's performance needs  
* explain what merchandising factors are involved with offering the right product, in the right quantities, in the right place, at the right time, at the right price, by the right appeal, with the right service

MARK428 Honours Research Project 24cp
Annual  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: Normally a minimum of 50% of 200-300 level major subjects achieved at credit level or higher plus no subject failures
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: A research topic undertaken by BCom(Hons) students, requiring the candidate to undertake a substantial piece of research in a theoretical and/or practical applicational area of marketing. The topic must be approved by the Head of the Department of Marketing.

Subject Objectives: information unavailable

MARK430 Advanced Topics in Marketing (Honours) 24cp
Annual  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: Normally a minimum of 50% of 200-300 level major subjects achieved at credit level or higher plus no subject failures
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: A course of study prescribed by the Head of Department, consisting of 4x300/900-level subjects which reflect the student's area of research. This subject is available to BCom(Hons) students.

Subject Objectives: information unavailable

MARK450 Joint Honours in Marketing 48cp
Annual  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: Bachelor degree with a major or joint major in Marketing, and approval of the Head of Department, Marketing. Normally students will have achieved a credit level or higher in at least 50% of their 200/300 level major study subjects.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See subject program

Subject Description: The Marketing component of the subject will consist of coursework and a research thesis in a particular area of Marketing, such as Marketing Strategy, Consumer Behaviour, Services Marketing, International Marketing, New Product Marketing, Electronic Commerce, Business to Business Marketing, Marketing Research, Retail or Sales Management. The other component to be determined by the relevant department within the Commerce Faculty.

Subject Objectives: On successful completion of this subject, students will be able to:  
1 critically analyse an advanced Marketing topic plus one from the other relevant department.  
2 discuss ethics and social responsibility in marketing.  
3 perform original research
Faculty of Creative Arts

Degrees Offered

The Faculty of Creative Arts offers the Bachelor of Creative Arts with major studies in five disciplines:

Creative Writing
Graphic Design and New Media
Performance
Sound, Music and Production
Visual Arts

Double Degrees

Bachelor of Creative Arts - Bachelor of Arts (BCA,BA)
Bachelor of Creative Arts - Bachelor of Commerce (BCA,BCom)
Bachelor of Creative Arts - Bachelor of Computer Science (BCA,BCompSc)
Bachelor of Creative Arts - Bachelor of Laws (BCA,LLB)
Bachelor of Creative Arts - Bachelor of Science (BCA,BSc)

Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/, or contact the relevant Faculty.
Course Structures

Bachelor of Creative Arts

Students enrolling in the BCA and BCA double degrees are required to complete:

1. Major Area of Study in the BCA

A major study is comprised of compulsory subjects which focus on practice in conjunction with a study in the history and theory of the discipline.

and for students enrolled in a BCA double degree only:

A major area of study in the second degree (for information, please refer to the other Faculty from which the second degree will be taken).

2. Elective Subjects

In addition to subjects required for their major study area/s, students choose elective subjects which make up the total credit point requirement for the degree/s. A limited range of electives are offered by the Faculty of Creative Arts. However, students are encouraged to take advantage of the full range of subjects offered within the University. Please note that elective subjects may be limited in double degree programs.

Degree Structure

Each subject is allocated a credit point value. Generally, subjects that take a full year to complete (annual subjects) are valued at 12 credit points, while subjects undertaken for one session (sessional subjects) are, on average, valued at 6 credit points. Normally a full-time student undertakes 48 credit points per year. Thus a degree requiring 144 credit points, such as the BCA, will normally take three years to complete (3 x 48 credit points).

Creative Writing

Course Description

A major study in Creative Writing in the Bachelor of Creative Arts (BCA) degree at the University of Wollongong offers both a practical and theoretical understanding of writing practice. Following an introductory subject on writing fundamentals, students specialise in one or more of the following areas: poetry, prose fiction, and scripting for either film and television or for the theatre. From second year, additional subjects are offered in non-fiction forms (Arts journalism), in editing, in scripting/scoring sound texts. Third year subjects are geared towards the refinement of writing technique in performance and in writing for the Internet and allow for the development of larger scale writing projects. Throughout the course students are involved in the critical examination of developments in the poetics of writing and writing theory. In general, class activities are based around a combination of lectures, intensive workshops, writing exercises, group discussions and individual student presentations. The course regularly makes use of various artist and writer-in-residence schemes. Students are encouraged to participate in public readings and performances of their work as well as in the active pursuit of publication. For outstanding students, a fourth year is available at honours level.

It is expected that applicants for a major study in Creative Writing will have developed a body of work in either prose fiction (short story or novel), poetry or some form of dramatic writing, and be able to demonstrate an ongoing and independent commitment to writing.

Below is a sample course structure (totalling 108 credit points) for a major study in Creative Writing:

First Year

24 credit points of Writing Techniques and Genres:

- Fiction, Poetry, Scriptwriting

WRIT111 Writing Overview 6

and any 3 of the following

WRIT121 Writing for Stage and Screen 6
WRIT122 Writing Prose Fiction 100 6
WRIT123 Poetry 100: Introduction to Writing Poetry 6
ENGL— Any 100 level English subject 6

12 credit points of Theory for Practising Writers

WRIT119 Theory for Practising Writers: Classicism to the Gothic 6
WRIT129 Theory for Practising Writers: Realism to Modernism 6
Second Year

24 credit points of Writing Techniques and Genres:
- Fiction, Poetry, Sound, Theatre, Film and TV, Performance, Internet, Arts Journalism

Any 4 of the following

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WRIT210</td>
<td>Writing for the Internet</td>
<td>6</td>
</tr>
<tr>
<td>WRIT211</td>
<td>Writing/Performing</td>
<td>6</td>
</tr>
<tr>
<td>WRIT212</td>
<td>Writing Prose Fiction 200</td>
<td>6</td>
</tr>
<tr>
<td>WRIT213</td>
<td>Poetry 200: Poetic Forms</td>
<td>6</td>
</tr>
<tr>
<td>WRIT214</td>
<td>Writing for Theatre 200</td>
<td>6</td>
</tr>
<tr>
<td>WRIT215</td>
<td>Writing for Film and Television 200</td>
<td>6</td>
</tr>
<tr>
<td>WRIT217</td>
<td>Arts Journalism 200</td>
<td>6</td>
</tr>
<tr>
<td>WRIT222</td>
<td>Writing Extended Prose Fiction</td>
<td>6</td>
</tr>
<tr>
<td>WRIT228</td>
<td>Writing for Sound 200</td>
<td>6</td>
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</table>

12 credit points of Theory for Practising Writers

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRIT219</td>
<td>Theory for Practising Writers: Modernism to Structuralism</td>
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</tr>
<tr>
<td>WRIT229</td>
<td>Theory for Practising Writers: Structuralism to the Postmodern</td>
<td>6</td>
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</tbody>
</table>

Third Year

24 credit points of Writing Techniques and Genres:
- Specialist Writing Techniques

Any 4 of the following

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRIT312</td>
<td>Advanced Prose Fiction A</td>
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<tr>
<td>WRIT313</td>
<td>Advanced Poetry A</td>
<td>6</td>
</tr>
<tr>
<td>WRIT314</td>
<td>Writing for Theatre 300</td>
<td>6</td>
</tr>
<tr>
<td>WRIT315</td>
<td>Writing for Film and Television 300</td>
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</tr>
<tr>
<td>WRIT316</td>
<td>Editing 300</td>
<td>6</td>
</tr>
<tr>
<td>WRIT317</td>
<td>Writing for the Media</td>
<td>6</td>
</tr>
<tr>
<td>WRIT322</td>
<td>Advanced Prose Fiction B</td>
<td>6</td>
</tr>
<tr>
<td>WRIT323</td>
<td>Advanced Poetry B</td>
<td>6</td>
</tr>
<tr>
<td>WRIT328</td>
<td>Writing for Sound 300 - Scoring and Production</td>
<td>6</td>
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</tbody>
</table>

12 credit points of Theory for Practising Writers

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WRIT319</td>
<td>Contemporary Theory and the Practising Writer: Poststructuralism</td>
<td>6</td>
</tr>
<tr>
<td>WRIT329</td>
<td>Contemporary Theory and the Practising Writer: Case Studies</td>
<td>6</td>
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</tbody>
</table>

Note: check subject details for session on offer and pre-requisites and co-requisites.

Single degree BCA students must also include 36 credit points of electives in their degree of which no more than 18 credit points should be at 100 level.

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Graphic Design and New Media

Course Description

The Graphic Design and New Media major in the Bachelor of Creative Arts (BCA) degree at the University of Wollongong is made up of a combination of theory and laboratory production components. Students are introduced to a range of graphic and digital imaging techniques and practices across a number of industrial contexts including graphic design, web and interactive multimedia design. The Graphic Design and New Media major encourages an interdisciplinary approach to the study and practice of creative print and screen-based design. Student work is shown throughout the year in one of five gallery spaces in the Faculty.

The first year of the course covers both an introduction to graphic design and to theories of visual and graphic arts. Students are encouraged to research historical and contemporary designers and cultural trends, then experiment with a range of production techniques, computer software and hardware skills and creative solutions. Students gain a solid grounding in visual art methods of drawing and constructing images, both analog and digital.

Throughout year two, specific subjects in typography, campaign graphics and editorial design, web design and design theory are introduced to the course. Students will be more independent in their motivations and research focus. Increasingly, student projects are concerned with real clients and job briefs. Theory and production subjects run in parallel throughout the year.

In third year advanced design theory and production subjects introduce the student to professional practice methods and techniques. The emphasis is on developing a range of critical and practical skills in the rapidly expanding fields of graphic and
digital design. Interactive multimedia and new media theory form a focus for end of degree students. Major projects are developed for actual clients. An end of year exhibition of final session work is held in one or more of the Faculty galleries. An on-line gallery is also available for students to show their work.

Below is a sample course structure (totalling 108 credit points) for a major study in Graphic Design and New Media:

**First Year**

**24 credit points of Studio Practice including:**
- Principles and Elements of Graphic Design
- Visual Identity, Logo Design
- Signage Systems and Information Design

DES101 Introduction to Graphic Design 6
DES102 Design for Visual Communications 6
VIS101 Visual Investigations A 6
VIS102 Visual Investigations B 6

**12 credit points of Theory**

VIS121 Classicism to Romanticism: pre-C20th European Art 6
VIS122 Colonial and Early Modern Visual Arts in Australia 6

**Second Year**

**24 credit points of Studio Practice including:**
- Web Design
- Typography
- Editorial Design

DES201 Typography, Text and Illustration 6
DES202 Campaign Graphics and Editorial Design 6
DES211 Introduction to Web Design 6
DES212 Advanced Web Design 6

**12 credit points of Theory**

VIS221 The Object in Contemporary Material Culture 6
DES222 Design Theory 6

**Third Year**

**24 credit points of Studio Practice including:**
- Advanced Web Design
- Advanced Design Project
- Commercial Practice

DES301 Commercial Graphic Design Practice A 6
DES302 Commercial Graphic Design Practice B 6
DES311 Interactive Multimedia Design 6
DES312 Advanced Design Project 6

**12 credit points of Theory**

DES321 New Media Theory 6
DES322 Advanced Graphic Design Theory 6

Note: check subject details for session on offer and pre-requisites and co-requisites.

Single degree BCA students must also include 36 credit points of electives in their degree of which no more than 18 credit points should be at 100 level.
Performance

The Performance major offers sequential subjects leading to a high level of proficiency in on-stage performance. Students accepted into Performance are provided with studies in:

- Vocal performance: singing and speech
- Physical performance: movement and dance
- Dramaturgy, history and theory
- Text interpretation
- Devised performance techniques through improvisation
- Tuition in production skills is available to students showing aptitude in Performance Technology

Seminars addressing all aspects of performance will provide students with the opportunity to perform for their peers and to work with visiting professional artists in masterclass and workshop situations.

For outstanding students, a fourth year is available at honours level. It may also be possible for such students to undertake a secondment within the industry.

In first year the focus is on the ensemble. Students undertake core technique subjects that provide a broad appreciation of performance history and culture. Interpretative skills are developed with reference to standard repertoire, improvisation techniques are also developed to allow students to devise/perform material. Students also develop an integrated appreciation of theatrical values and acquire literacy in skills that will encompass all aspects of production. There are also opportunities for the Faculty and the University.

The second year focuses on On-stage interaction and students continue technique classes and perform in limited-access performances. (Black Box projects are based on script work, music projects or devised workshops). Students are encouraged to engage in key creative production roles for third year performances.

Third year studies include Individualism in Performance. Students continue technique classes and perform to a wider audience at one of the theatres on campus or at performance venues off campus. Towards the end of their training students are introduced to the industry, either at the University or at a venue in Sydney, where they perform from a repertoire of selected works developed over the course of their degree.

Below is a sample course structure (totalling 108 credit points) for a major study in Performance:

**First Year**

**24 credit points of Studio Practice and Skills**

- The Ensemble
  - PERF102 Studio Practice A 6
  - PERF103 Studio Practice B 6
  - PERF120 Performance Skills A 6
  - PERF121 Performance Skills B 6

**12 credit points of Theory**

- PERF116 Dramaturgy A 6
- PERF117 Dramaturgy B 6

**Second Year**

**24 credit points of Studio Practice and Skills**

- On-stage interaction
  - PERF204 Interpretation 1 6
  - or
  - PERF206 Devised 1 6
  - and
  - PERF205 Interpretation 2 6
  - or
  - PERF207 Devised 2 6
  - and
  - PERF220 Performance Skills C 6
  - PERF221 Performance Skills D 6
### Course Structures

**12 credit points of Theory**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
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<tbody>
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<td>Dramaturgy C</td>
<td>6</td>
</tr>
<tr>
<td>PERF217</td>
<td>Dramaturgy D</td>
<td>6</td>
</tr>
</tbody>
</table>

**Third Year**

**24 credit points of Studio and Practice Skills**

- Individualism in Performance
  - PERF304 Interpretation 3 6
  - or PERF306 Devised 3 6
  - and PERF305 Interpretation 4 6
  - or PERF307 Devised 4 6
  - and PERF320 Performance Skills E 6
  - PERF321 Performance Skills F 6

**12 credit points of Theory**

<table>
<thead>
<tr>
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<th>Course Name</th>
<th>Credit Points</th>
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<tr>
<td>PERF316</td>
<td>Dramaturgy E</td>
<td>6</td>
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<tr>
<td>PERF317</td>
<td>Dramaturgy F</td>
<td>6</td>
</tr>
</tbody>
</table>

Single degree BCA students must also include 36 credit points of electives in their degree of which no more than 18 credit points should be at 100 level.

### Sound, Music and Production

The Faculty of Creative Arts has developed a comprehensive theory and practice-based major study in Sound, Music and Production. The course explores the major facets of Music Composition, Digital Sound Studies and Sound Production. Applicants should have a desire to learn about composing, recording and computer applications.

**Course Description**

This course explores the creation and manipulation of sound, in particular through the use of digital technologies. It will be suitable for students from a traditional music background as well as those who have developed an interest in sound design and music composition through computer-based technologies. The design of sound for multi-media and web-based applications will form a significant component of the major.

Students' creativity will be extended through studies in:

- Theory of sound
- Composition (electronic media/improvisational and traditional)
- Computer music applications
- Critical listening skills

Seminars addressing all aspects of sound studies will give students the opportunity to interact with their peers and with visiting professional sound artists.

For outstanding students a fourth year is available at Honours level.

The following is a brief example of how the course will be structured.

**First Year**

**36 credit points including:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>SMP101</td>
<td>Investigations in Sound1</td>
<td>6</td>
</tr>
<tr>
<td>SMP102</td>
<td>Investigations in Sound 2</td>
<td>6</td>
</tr>
<tr>
<td>SMP111</td>
<td>Issues in Sound Design 1</td>
<td>6</td>
</tr>
<tr>
<td>SMP112</td>
<td>Issues in Sound Design 2</td>
<td>6</td>
</tr>
<tr>
<td>SMP121</td>
<td>Sound Studies 1</td>
<td>6</td>
</tr>
<tr>
<td>SMP122</td>
<td>Sound Studies 2</td>
<td>6</td>
</tr>
</tbody>
</table>
Second Year

36 credit points including
- SMP201 Investigations in Sound 3 6
- SMP202 Investigations in Sound 4 6
- SMP211 Issues in Sound Design 3 6
- SMP212 Issues in Sound Design 4 6
- SMP221 Sound Studies 3 6
- SMP222 Sound Studies 4 6

Third Year

36 credit points including
- SMP301 Investigations in Sound 5 6
- SMP302 Investigations in Sound 6 6
- SMP311 Issues in Sound Design 5 6
- SMP312 Issues in Sound Design 6 6
- SMP321 Sound Studies 5 6
- SMP322 Sound Studies 6 6

Single degree BCA students must also include 36 credit points of electives in their degree of which no more than 18 credit points should be at 100 level.

Visual Arts

Course Description

The Visual Arts major in the Bachelor of Creative Arts (BCA) degree at the University of Wollongong is based in studio practice and related theory and history studies. The studio processes available include drawing, digital imaging, painting, photography, printmaking media, sculpture and textiles. Students are not restricted to only one process and interdisciplinary work is encouraged. Student work is shown throughout the year in one of five gallery spaces in the Faculty.

Visual Arts majors work within their chosen studios under the direction of lecturers for four hours per week, with at least another four hours per week additional studio hours. Students also take a drawing-based Visual Investigations subject of four hours per week (+ four additional hours) and a Visual Arts Theory and History subject (three hours per week). These are the compulsory core subjects to be taken in each session of the course.

In first year, studio subjects introduce students to a range of media and processes. Studio skills are taught and a critical approach to their use is fostered in weekly seminars that study the histories of each art and craft discipline. In second year, studio subjects build on these basic techniques and skills. Increased emphasis is placed on the students' ability to achieve independence in ideas, technical skills and work practices. Students are encouraged to contextualise their artwork in contemporary practice by developing research processes, attending exhibitions and participating in the wider artistic community. In third year studio subjects, students are expected to explore and develop personal themes and ideas to a greater depth. Professional practice as a visual artist is introduced. This includes skills in visual presentation appropriate to the medium, gallery practice, and compiling a professional portfolio. The focus is on the completion of a body of work for exhibition in the final year exhibition.

Visual Arts Theory and History subjects complement the work in studio practice. In their first year, students are given a foundation in 19th century European, Colonial, indigenous Australian and early modern art as a background to their second-year study of 20th century movements and theories in art and design. Contemporary theoretical perspectives are introduced gradually. By third year the focus is on contemporary visual arts practice, along with the current issues and debates, in Australia and overseas.

Below is a sample course structure (totalling 108 credit points) for a major study in Visual Arts:

First Year

12 credit points of Studio Practice including:
- introduction to a range of media and processes;
- histories of given art and design disciplines
- VIS103 Introduction to Visual Arts Studio A 6
- VIS104 Introduction to Visual Arts Studio B 6

12 credit points of Visual Investigations (complements the work in studio practice)
- VIS101 Visual Investigations A 6
- VIS102 Visual Investigations B 6
Course Structures

12 credit points of Theory
• 19th Century European, Colonial, indigenous Australian and early modern art
VIS121 Classicism to Romanticism: pre-C20th European Art 6
VIS122 Colonial and Early Modern Visual Arts in Australia 6

Second Year
12 credit points of Studio Practice including:
• techniques and skills to achieve technical competence
• independence in ideas, technical skills and work practices
VIS203 Visual Arts Studio C 6
VIS204 Visual Arts Studio D 6

12 credit points of Visual Investigations
VIS201 Visual Investigations C 6
VIS202 Visual Investigations D 6

12 credit points of Theory
• 20th Century movements and theories in art and design
VIS221 The Object in Contemporary Material Culture 6
VIS222 Revolutions in Art and Design: Ruskin to Rothko 6

Third Year
12 credit points of Studio Practice including:
• exploration and development of personal themes and ideas
• professional practice
VIS303 Advanced Visual Arts Studio E 6
VIS304 Advanced Visual Arts Studio F 6

12 credit points of Visual Investigations
VIS301 Visual Investigations E 6
VIS302 Visual Investigations F 6

12 credit points of Theory
• current visual arts practice
• attendant issues and debates in Australia and overseas
VIS321 Visual Arts Theory 3 6
VIS322 Visual Arts Research Project: The Artist and Contemporary Culture 6

Note: check subject details for session on offer and pre-requisites and co-requisites.

Single degree BCA students must also include 36 credit points of electives in their degree of which no more than 18 credit points should be at 100 level.

Bachelor of Creative Arts - Bachelor of Arts
Refer to the Faculty of Arts section for details of this double degree program.

Bachelor of Creative Arts - Bachelor of Commerce
To qualify for the award of the double degree of Bachelor of Creative Arts, Bachelor of Commerce a candidate is required to complete the following:

i) a major study for the Bachelor of Creative Arts comprising 108 credit points of compulsory subjects as listed in the Creative Arts course structure

ii) subjects from the Commerce schedule of subjects, including subjects to satisfy the requirements of one of the Commerce majors*

iii) where necessary, elective subjects to ensure a total of 216 credit points have been completed.

* Candidates need to be aware that the number of credit points required by each Bachelor of Commerce major varies.

Note: Students must seek advice and approval from both Faculties before enrolment.
Bachelor of Creative Arts - Bachelor of Computer Science

Refer to the Faculty of Informatics section for details of this double degree program.

Bachelor of Creative Arts - Bachelor of Laws

Refer to the Faculty of Law section for details of this double degree program.

Bachelor of Creative Arts - Bachelor of Science

To qualify for the award of the double degree of Bachelor of Creative Arts, Bachelor of Science a candidate is required to complete the following:

i) a major study for the Bachelor of Creative Arts comprising 108 credit points of compulsory subjects as listed in the Creative Arts course structure

ii) a major study for the Bachelor of Science comprising 90 credit points as set out in the Science Course structure

iii) where necessary, elective subjects to ensure a total of 216 credit points have been completed.

Note: Students must seek advice and approval from both Faculties before enrolment.
CREATIVE ARTS SUBJECT DESCRIPTIONS

CREA401  Minor Thesis in Creative Arts  24cp
Annual  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: Entry to the Honours year shall be determined by the Dean.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Minor thesis of 10,000-15,000 words. Research seminar exercises.
Subject Description: The presentation of a minor thesis in the area of a candidate's major study. Candidates shall select an appropriate Creative Arts topic for research, approved by the Dean, and subject to staff availability for supervision and assessment, and the accessibility of relevant literature. The work will include a critical survey of available literature. Students will attend a discipline-based seminar series on Arts theory and a seminar series on research methods.
Subject Objectives: information unavailable

CREA402  Creative Arts Presentation  24cp
Annual  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: Entry to the Honours year shall be determined by the Dean.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Submission of a major presentation of creative work.
Subject Description: The presentation of a major exhibition, performance, composition or written folio built on professional competence in the area of a candidate's major study. A proposal outlining the topic, its scope, methods of implementation and presentation shall be submitted for approval by the Dean, and is subject to staff availability for supervision and assessment, and the accessibility of relevant resources.
Subject Objectives: information unavailable

DES101  Introduction to Graphic Design  6cp
Autumn  Wollongong  On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: Folio of Work
Co-requisites: VIS121
Restrictions: none
Exclusions: none
Assessment: Electronic submission and hardcopy folio 50%; major project and research journal 50%.
Subject Description: Introduces students to creative design history and the principles and elements of design. Introductory level digital page design, image scanning and image editing for printed media. Emphasis is given to design fundamentals, computer literacy and formal composition.
Subject Objectives: information unavailable

DES102  Design for Visual Communications  6cp
Spring  Wollongong  On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: DES101
Co-requisites: VIS122
Restrictions: none
Exclusions: none
Assessment: Electronic submission and hardcopy folio 50%; major project and research journal 50%.
Subject Description: Explores the theme of Design in Transition and its impact on the principles governing contemporary graphic communication. Students will be required to: - study the function of logotype and visual identity - undertake studio projects that examine information design, wayfinding and signage systems - apply digital solutions to print based assignments - learn introductory level Illustrator, intermediary level QuarkXPress and PhotoShop.
Subject Objectives: information unavailable

DES108  Screen Production A: Documentary  6cp
Annual  Wollongong  On Campus
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none.
Co-requisites: none.
Restrictions: none.
Exclusions: none.
Assessment: Practical assignment 75%; written tests 10%; class and workshop participation 15%.
Subject Description: Aims to familiarise students with the fundamentals of the language of the screen and to examine how these stylistic techniques shape meaning and guide audience expectations and responses. Students will be provided with basic theoretical and practical knowledge of single camera video production. Practical assignments provide experience in the operation of camera and editing equipment and working in a production crew environment. Project focus is on producing a short documentary.
Subject Objectives: information unavailable.

DES190  Introduction to Digital Imagemaking  6cp
Annual  Wollongong  On Campus
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none.
Co-requisites: none.
Restrictions: none.
Exclusions: none.
Assessment: Electronic submission, major project and hardcopy folio 75%; written report and research journal 25%.
Subject Description: Introduces students to creative digital imagemaking for both print and screen. Emphasis is given to computing basics and creative problem solving. Introductory level instruction on image editing, text and image assembly and scanning software. No prior computing experience required.
Subject Objectives: information unavailable.

DES201  Typography, Text and Illustration  6cp
Autumn  Wollongong  On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: DES102 or VIS103
Co-requisites: VIS221
Restrictions: none

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Exclusions: none
Assessment: Electronic submission, major project and hardcopy folio 50%; major project and research journal 50%.
Subject Description: Introduces creative typography and the function of type in design. Introductory pre-press and commercial print production. History of typography, cultural and visual communication theory. Emphasis is given to typography as illustration, written research and case studies.
Subject Objectives: information unavailable

DES202 Campaign Graphics and Editorial Design 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs pw.
Pre-requisites: DES201
Co-requisites: DES222
Restrictions: none
Exclusions: none
Assessment: Electronic submission and hardcopy folio 50%; major project and research journal 50%.
Subject Description: Examines the partnership between words and pictures. Photomedia and poster design. Focus is on campaign graphics, editorial design and illustration for print media. Emphasis is given to socially responsible design and environmentally sustainable print production.
Subject Objectives: information unavailable

DES211 Introduction to Web Design 6cp
Autumn Wollongong On Campus
Contact Hours: 4hrs pw.
Pre-requisites: DES102 or Interview
Co-requisites: DES201 or Interview
Restrictions: none
Exclusions: none
Assessment: Major project 50%; research journal and folio 50%.
Subject Description: Introduction to designing web pages. Topics covered include: limits of the web; setting a brief; concept development; planning a site map; organising and producing content (graphics, animations, text, sound and video); using web publishing software; editing HTML. The focus is on creating appropriate design solutions to specific client briefs. Emphasis is placed on designing for a given audience. Design strategies for interactive web sites are also investigated.
Subject Objectives: information unavailable

DES212 Advanced Web Design 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs pw.
Pre-requisites: DES211
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major project 50%; research journal and folio 50%.
Subject Description: Introduces students to advanced design techniques utilised in constructing web pages. Topics covered include planning and developing interactive web sites; organising and producing content (graphics, animations, text, sound and video); using web publishing software; adding Java applets to HTML; VRML: Shocking interactive content; animation and working with plugins; CGI scripts/forms and uploading sites.

The focus is on creating appropriate design solutions to specific client briefs.
Subject Objectives: information unavailable

DES222 Design Theory 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs pw.
Pre-requisites: VIS221
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major project 50%; research journal and folio 50%.
Subject Description: Introduces students to theories of design and how they can be utilised in the creative production process. Students are introduced to historical and current critical resources. Topics covered include: relation to and impact of advertising and art to graphic and virtual design; Western and Eastern traditions of design; philosophical influences and analytical methods of investigating design products in their social, historical, cultural and political contexts; digital and analog design movements and major theorists.
Subject Objectives: information unavailable

DES301 Commercial Graphic Design Practice A 6cp
Autumn Wollongong On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: DES202
Co-requisites: DES321
Restrictions: none
Exclusions: none
Assessment: Electronic submission, job briefs and hardcopy folio 75%; written report and process journal 25%.
Subject Description: This subject is for advanced graphic design students. Students are assigned commercial job briefs under the art direction of the lecturer. Clients are selected by the lecturer and students are required to work within publishing budgets and meet strict production deadlines. Students undertaking this subject will be required to work additional hours outside of the subject timetable in order to undertake liaison with clients and coordinate the services of commercial printers, pre-press, copywriting and photographic services.
Subject Objectives: information unavailable

DES302 Commercial Graphic Design Practice B 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: DES301
Co-requisites: DES322
Restrictions: none
Exclusions: none
Assessment: Electronic submission, job briefs and hardcopy folio 75%; written report and process journal 25%.
Subject Description: This subject is for advanced graphic design students. Students are assigned commercial job briefs under the art direction of the lecturer. Clients are selected by the lecturer and students are required to work within publishing budgets and meet strict production deadlines. Students undertaking this subject will be required to work additional hours outside of the subject timetable in order to undertake liaison with clients and coordinate the services of commercial printers, pre-press, copywriting and photographic services.
Subject Objectives: information unavailable
Subject Descriptions

DES311 Interactive Multimedia Design 6cp
Autumn Wollongong On Campus
Contact Hours: 4hrs pw.
Pre-requisites: DES212 or VIS232
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major project 50%; research journal and folio 50%.
Subject Description: Introduction to interactive multimedia design and production. The focus is on developing CD Rom projects using Macromind Director software and other 3D modelling, animation, sound, video and photographic manipulation software programs will also be used. Topics covered: planning and concept development; interface design, working with graphics, animations, text, sound and video; web publishing; burning and testing CDs. The focus is on innovative design strategies and solutions for given audiences.
Subject Objectives: information unavailable

DES312 Advanced Design Project 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs pw.
Pre-requisites: DES311
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Folio of design major project work 30%; folio of class exercises 20%; exhibition of selected work 50%.
Subject Description: Introduces students to working individually as art directors/ producers on design jobs for real clients in the community. The project output may take the form of graphic design or web design production. Emphasis is placed on working to a brief with a client, planning and developing a schedule, researching concepts, design roughs, site maps, meeting deadlines. Students will utilise a range of software learnt in earlier units to realise their creative projects.
Subject Objectives: information unavailable

DES321 New Media Theory 6cp
Autumn Wollongong On Campus
Contact Hours: 4hrs pw.
Pre-requisites: DES222 or VIS222
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major project 50%; research journal and folio 50%.
Subject Description: Introduces students to theories of new media design (web and interactive multimedia) and how they can be utilised in the creative production process. Students are introduced to historical and current critical thinking and research resources. Topics covered include: historical trends in graphic design; postmodernism and digital design; philosophical influences and analytical methods of investigating design products in their social, historical, cultural and political contexts; digital design movements and major theorists; graphic design and digital print design critical writings; relationship of graphic design to art practice.
Subject Objectives: information unavailable

DES322 Advanced Graphic Design Theory 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs pw.
Pre-requisites: DES331
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major project 50%; research journal and folio 50%.
Subject Description: Introduces students to theories of graphic design and how they can be utilised in the creative production process. Students are introduced to historical and current critical thinking and research resources. Topics covered include: historical trends in graphic design; postmodernism and digital design; philosophical influences and analytical methods of investigating design products in their social, historical, cultural and political contexts; digital design movements and major theorists; graphic design and digital print design critical writings; relationship of graphic design to art practice.
Subject Objectives: information unavailable

MUS201 Styles and Structures in Music 3 6cp
Autumn Wollongong On Campus
Contact Hours: 2hrs lect/1hr tut pw.
Pre-requisites: MUS102
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 60%; examinations 40%.
Subject Description: A continuation of the topics explored in MUS102 with particular reference to generic structures of the C17th - 18th centuries.
Subject Objectives: information unavailable

MUS202 Styles and Structures in Music 4 6cp
Spring Wollongong On Campus
Contact Hours: 2hrs lect/1hr tut pw.
Pre-requisites: MUS201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 60%; examinations 40%.
Subject Description: Further study of the relationship between musical style and historical period in Western art music with particular reference to the 19th century.
Subject Objectives: information unavailable

MUS203 Music Composition 3 6cp
Autumn Wollongong On Campus
Contact Hours: 2hr sem/tut 1hr.
Pre-requisites: MUS104
Co-requisites: MUS201
Restrictions: none
Exclusions: none
Assessment: Progressive folio.
Subject Description: Deals with more sophisticated structural and formal concepts in composition. A folio of exercises and short works will demonstrate an understanding of these concepts.
Subject Objectives: information unavailable
MUS204 Music Composition 4 6cp
Spring Wollongong On Campus
Contact Hours: 2hr sem/tut 1hr.
Pre-requisites: MUS203
Co-requisites: MUS202
Restrictions: none
Exclusions: none
Assessment: none
Subject Description: Information unavailable

MUS205 Music Performance 3 6cp
Autumn Wollongong On Campus
Contact Hours: 2 sem/1 tut.
Pre-requisites: MUS217
Co-requisites: MUS201
Restrictions: none
Exclusions: none
Assessment: None
Subject Description: Information unavailable

MUS206 Music Performance 4 6cp
Spring Wollongong On Campus
Contact Hours: 2hr sem/1 hr tut.
Pre-requisites: PRF220
Co-requisites: MUS202
Restrictions: none
Exclusions: none
Assessment: Examinations 100%.
Subject Description: Information unavailable

MUS220 Music Skills 3 6cp
Autumn Wollongong On Campus
Contact Hours: 3 x 2hr classes pw.
Pre-requisites: PRF121
Co-requisites: MUS203 or MUS205
Restrictions: none
Exclusions: none
Assessment: Progressive 100%. Work will only be marked at pass or fail level.
Subject Description: Information unavailable

MUS221 Music Skills 4 6cp
Spring Wollongong On Campus
Contact Hours: 3 x 2hr classes pw.
Pre-requisites: PRF220
Co-requisites: MUS204 or MUS206
Restrictions: none
Exclusions: none
Assessment: Progressive 100%. Work will only be marked at pass or fail level.
Subject Description: Information unavailable

MUS301 Styles and Structures in Music 5 6cp
Spring Wollongong On Campus
Contact Hours: 3hrs lect/semin. pw.
Pre-requisites: PRF217
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 80%; examination 20%.
Subject Description: Information unavailable

MUS302 Music Composition 5 6cp
Spring Wollongong On Campus
Contact Hours: 2hr sem/1 hr tut.
Pre-requisites: MUS203
Co-requisites: MUS301 or MUS302
Restrictions: none
Exclusions: none
Assessment: Progressive folio.
Subject Description: Information unavailable

MUS303 Music Composition 6 6cp
Spring Wollongong On Campus
Contact Hours: 2hr sem/indiv tut 1hr.
Pre-requisites: MUS303
Co-requisites: MUS312 or MUS301
Restrictions: none
Exclusions: none
Assessment: Progressive folio.
Subject Description: Information unavailable

MUS304 Music Composition 6 6cp
Spring Wollongong On Campus
Contact Hours: 2hr sem/indiv tut 1hr.
Pre-requisites: MUS303
Co-requisites: MUS312 or MUS301
Restrictions: none
Exclusions: none
Assessment: Progressive folio.
Subject Description: Information unavailable
Subject Descriptions

MUS305 Music Performance 5 6cp
Autumn Wollongong On Campus
Contact Hours: 2hr sem/1hr tut.
Pre-requisites: MUS206
Co-requisites: MUS312 or MUS301
Restrictions: none
Exclusions: none
Assessment: Recitals 90%; Assignments 10%.
Subject Description: Continues from MUS206 in the development of technique and repertoire to an advanced level. Performance presentation is addressed through specific seminars and classes.
Subject Objectives: information unavailable

MUS306 Music Performance 6 6cp
Spring Wollongong On Campus
Contact Hours: 2hr sem/1hr tut.
Pre-requisites: MUS305
Co-requisites: MUS312 or MUS301
Restrictions: none
Exclusions: none
Assessment: Recitals 90%; Assignments 10%
Subject Description: As for MUS305, with an emphasis placed on meeting the needs of a professional performing career in music.
Subject Objectives: information unavailable

MUS311 Musicology Research Project 12cp
Annual Wollongong On Campus
Contact Hours: 3hrs per wk.
Pre-requisites: MUS202 and MUS211
Co-requisites: MUS301 and MUS312
Restrictions: none
Exclusions: none
Assessment: Assignments 80%; examinations 20%.
Subject Description: Develops an understanding of the techniques and application of musico logical research through individual projects and group seminar work.
Subject Objectives: information unavailable

MUS312 Australian Music 6cp
Autumn Wollongong On Campus
Contact Hours: 2hr lect/1hr tut pw.
Pre-requisites: 24 credit points at 200 level.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major essay 50%; tutorial papers 35%; listening examination 15%.
Subject Description: Examines Australian musical culture, and will consider Aboriginal, Western and Asian music as it has shaped the current identity of Australian composition.
Subject Objectives: information unavailable

MUS320 Music Skills 5 6cp
Autumn Wollongong On Campus
Contact Hours: 3 x 2hr classes pw.
Pre-requisites: MUS221
Co-requisites: MUS303 or MUS305
Restrictions: none
Exclusions: none
Assessment: Progressive 100%. Work will only be marked at either pass or fail level.
Subject Description: Provides students majoring in music with ancillary skills relevant to their specialisation. Students choose from a variety of units offered within the Performance discipline. Topics covered may include, according to availability, languages, chamber music, orchestration, electro-acoustic music and notation, accompaniment, musical pedagogy, stage skills, movement and dance. Students may also draw on skill-based classes offered under THEA320.
Subject Objectives: information unavailable

MUS321 Music Skills 6 6cp
Spring Wollongong On Campus
Contact Hours: 3 x 2hr classes pw.
Pre-requisites: MUS320
Co-requisites: MUS304 or MUS306
Restrictions: none
Exclusions: none
Assessment: Progressive 100%. Work will only be marked at pass or fail level.
Subject Description: Provides students majoring in music with ancillary skills relevant to their specialisation. Students choose from a variety of units offered within the Performance discipline. Topics covered may include, according to availability, languages, chamber music, orchestration, electro-acoustic music and notation, accompaniment, musical pedagogy, stage skills, movement and dance. Students may also draw on skill-based classes offered under THEA320.
Subject Objectives: information unavailable

PERF102 Studio Practice A 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Audition
Co-requisites: PERF120 and PERF116
Restrictions: none
Exclusions: none
Assessment: Ongoing class exercises - 60% Perform in text based or experimental exercises - 40%
Subject Description: Studio practice A will introduce students to concepts and processes of stage performance using techniques developed by performing arts practitioners. Students will examine the Methodology of the rehearsal process, using genre studied in PERF116 Dramaturgy A as a guide, and will engage in the practice of ensemble performance. The relationship between genre and performance will be explored using techniques developed in PERF120 Performance Skills A. Practical work will be assessed on effort, imagination, experimentation and demonstrated skills.
Subject Objectives: information unavailable

PERF103 Studio Practice B 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: PERF102 and PERF116 and PERF120
Co-requisites: PERF117 and PERF121
Restrictions: none
Exclusions: none
Assessment: Ongoing class exercises - 60% Perform in text based or experimental exercises - 40%
Subject Description: In conjunction with work developed in PRF117 Dramaturgy B, and self-initiated projects this subject continues to investigate the process of performance techniques with particular reference to the group as chorus. Students will work in collaborative groups to develop performance material appropriately staged and managed.

Subject Objectives: information unavailable

PERF116 Dramaturgy A: Text and Performance 6cp

Subject Description: Dramaturgy A introduces the Performance student to the fundamental concepts of text. Particular attention will be paid to editorial theory (authorial intention) as well as the ramifications of contemporary literary theory's adjustment to the way in which we read texts (Post-colonial, Feminist and Queer readings). These issues will be exercised using the genres of Melodrama and Tragedy and to further explore the influence of music on the mise en scene and the evolution of Performance Theory.

Subject Objectives: information unavailable

PERF117 Dramaturgy B: Introduction to Genre and Style 6cp

Subject Description: Using a range of texts from the Romantic Movement and the development of the Epic tradition, Dramaturgy 2 pursues the specifics of generic differentiation. In doing so the parameters of style in performance are examined with particular reference to vocal, physical and production techniques. Students will be expected to build on the skills and techniques developed in PERF120 Performance Skills A. Students are required to take a minimum of three (3) performance skill-based study areas offered by the faculty with specific reference to vocal, physical and production techniques. Specialist performance techniques will be taught in order to access a necessary style in relation to performances or projects developed in Studio Practice. Together with Studio Practice and Dramaturgy this subject forms part of an essential core in the Performance course. Practical work will be assessed on effort, imagination, experimentation and demonstrated skills.

Subject Objectives: information unavailable

PERF120 Performance Skills B 6cp

Subject Description: Together with Studio Practice and Dramaturgy this subject forms part of an essential core in the Performance course. Practical work will be assessed on effort, imagination, experimentation and demonstrated skills.

Subject Objectives: information unavailable

PERF121 Performance Skills B 6cp

Subject Description: Dramaturgy B, and self-initiated projects this subject continues to investigate the process of performance techniques with particular reference to the group as chorus. Students will work in collaborative groups to develop performance material appropriately staged and managed.

Subject Objectives: information unavailable

SMP101 Investigations in Sound 1 6cp

Subject Description: Students will be expected to produce project and folio-based work including, as appropriate, composing music for small chamber ensemble or solo instruments, recording projects, and the internet publishing projects. These projects will be both individual and collaborative and the subject will be collaboratively taught and assessed.

Subject Objectives: information unavailable

SMP102 Investigations in Sound 2 6cp

Subject Description: Students will be expected to produce project and folio-based work including, as appropriate, composing music for small chamber ensemble or solo instruments, recording projects, and the internet publishing projects. These projects will be both individual and collaborative and the subject will be collaboratively taught and assessed.

Subject Objectives: information unavailable
**Subject Descriptions**

**SMP111 Issues in Sound 1** 6cp  
**Autumn**  
Contact Hours: 3 hours per week.  
Pre-requisites: Interview  
Co-requisites: Nil  
Restrictions: none  
Exclusions: none  
Assessment: Folio of projects - 50% Assignments - 50%  
**Subject Description:** This subject explores contemporary issues in the fields of Sound, Music and Production. Emphasis will be placed on students acquiring analytical skills in the areas of listening, structural design and problem solving.  
**Subject Objectives:** information unavailable

**SMP112 Issues in Sound 2** 6cp  
**Spring**  
Contact Hours: 3 hours per week.  
Pre-requisites: SMP111  
Co-requisites: Nil  
Restrictions: none  
Exclusions: none  
Assessment: Research essay - 35% Presentations - 35% Examination - 30%  
**Subject Description:** This subject further explores contemporary issues in the fields of Sound, Music and Production and continues the development of analytical listening skills.  
**Subject Objectives:** information unavailable

**SMP121 Sound Studies 1** 6cp  
**Autumn**  
Contact Hours: 3 hours per week.  
Pre-requisites: Interview  
Co-requisites: SMP101  
Restrictions: none  
Exclusions: none  
Assessment: Essays Assignments Examination  
**Subject Description:** This subject allows students to study basic acoustics, problems of form and structure in Sound, Music and Production.  
**Subject Objectives:** information unavailable

**SMP122 Sound Studies 2** 6cp  
**Spring**  
Contact Hours: 3 hours per week.  
Pre-requisites: SMP121  
Co-requisites: SMP102  
Restrictions: none  
Exclusions: none  
Assessment: Essays - 35% Assignments - 35% Examination - 30%  
**Subject Description:** Further studies will be undertaken in music notation and instrumentation. Further study in acoustics will be complemented by studies in digital sampling and a study of the history and theory of sound recording.  
**Subject Objectives:** information unavailable

**THEA203 Interpretation 3: Modernism** 6cp  
**Spring**  
Contact Hours: 2 x 2hr classes pw.  
Pre-requisites: THEA216 and THEA218 or THEA217  
Co-requisites: THEA221 and THEA217  
Restrictions: none  
Exclusions: none  
Assessment: Progressive assessment 60%, examination 40%.  
**Subject Description:** By a practical exploration of modernist texts, this subject will continue to develop on-stage interaction, in the investigation of making meaning. A continuation of improvisational and acting exercises will further explore the notion of performance based on the acting methods of recognised practitioners and theorists including Benedetti, Carey, Cohen, Malmgren and Stanislavsky. Performances will be in the form of 'black box' projects, scenes or plays.  
**Subject Objectives:** information unavailable

**THEA216 Dramaturgy 3: Theatrical Modernism** 6cp  
**Autumn**  
Contact Hours: 2hr lect/1hr tut pw.  
Pre-requisites: PRF117 or English Program Equivalent  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Tutorial paper 30%; practical research paper 30%; essay 40%.  
**Subject Description:** The responses to modernism, by playwrights and other theatre practitioners working in the highly charged nationalistic circumstances in Europe, are detailed - in both literary and performance master classes - to give students an extensive appreciation of the provocative and evolving modes of twentieth century theatre practice: realism and naturalism, expressionism, symbolism and the many subsequent permutations. The rise of the director, and the diverse strategies involved with actor training, are also explored.  
**Subject Objectives:** information unavailable

**THEA217 Dramaturgy 4: Australasian Drama and Theatre** 6cp  
**Spring**  
Contact Hours: 2hr lect/1hr tut pw.  
Pre-requisites: THEA216 or English Program Equivalent  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Tutorial paper 30%; practical research paper 30%; essay 40%.  
**Subject Description:** The responses to modernism, by playwrights and other theatre practitioners working in Australasia, are detailed - in both literary and performance master classes - to give students an extensive appreciation of the provocative and evolving modes of twentieth century Australasian theatre practice. In this context, particular attention is given to contemporary trends towards physical and non-verbal performance styles as well as an appreciation of the significant European, American and Asian influences on Australian play writing and dramaturgy.  
**Subject Objectives:** information unavailable
THEA218 Devised Theatre 2: Ensemble 6cp  
Autumn  Wollongong  On Campus  
Contact Hours: 2hr worksh/2hr lect.  
Pre-requisites: PRF117 and THEA103 or THEA119  
Co-requisites: THEA220 and THEA21  
Restrictions: none  
Exclusions: none  
Assessment: Progressive assessment (research and analysis) 60%; examination 40%.  
Subject Description: This subject provides a continuation of the development of devised theatre, with particular reference to the ensemble or chorus as a theatrical presence. Students will work in collaborative groups to develop new performance material; researching, structuring, managing and producing specifically devised projects to articulate with events or courses on campus.  
Subject Objectives: information unavailable

THEA220 Theatre Skills 3 6cp  
Autumn  Wollongong  On Campus  
Contact Hours: 3 x 2hr classes pw.  
Pre-requisites: PRF117 and PRF103  
Co-requisites: THEA216 and THEA202 or THEA218  
Restrictions: none  
Exclusions: none  
Assessment: Progressive 100%. Work will only be marked at either a pass or fail level. A pass in each of the three components is necessary to satisfy the requirements for this subject.  
Subject Description: In association with THEA202 Interpretation 2 and THEA218 Devised Theatre Ensemble, this subject forms part of an essential core in the theatre performance course. This subject is skills based, with specific concentration on vocal, physical and theatre production skills. Students are required to take three (3) performance skills-based study areas. Students may also draw on skill-based classes offered under MUS220.  
Subject Objectives: information unavailable

THEA221 Theatre Skills 4 6cp  
Spring  Wollongong  On Campus  
Contact Hours: 3 x 2 hr classes pw.  
Pre-requisites: THEA216 and THEA220 and THEA202 or THEA218  
Co-requisites: THEA217 and THEA203 or THEA219  
Restrictions: none  
Exclusions: none  
Assessment: Progressive 100%. Work will only be marked at either a pass or fail level. A pass in each of the three components is necessary to satisfy the requirements for this subject.  
Subject Description: In association with THEA203 Interpretation 3 and THEA219 Devised Theatre, this subject forms part of an essential core in the theatre performance course. This subject is skill-based, with specific concentration on vocal, physical and theatre production skills. Students are required to take three performance skills-based study areas. Students may also draw on skill-based classes offered under MUS221.  
Subject Objectives: information unavailable

THEA290 Theatre Workshop 2 6cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: (THEA103) or (THEA119)  
Co-requisites: none.  
Restrictions: none.  
Assessment: Progressive assessment 60%; exam week practical assessment 40%.  
Subject Description: The workshop aims to develop newly written or devised plays. Scripts may be produced by student writers, or through collaborative techniques using improvisation by student actors and singers. Specialised performance techniques may be taught in order to access the necessary style of the text. Performances will be produced to low level budget productions using student technical and stage management skills. Productions may be showcased in the University’s Orientation Week.  
Subject Objectives: information unavailable.

THEA303 Interpretation 5: Advanced Characterisation 6cp  
Spring  Wollongong  On Campus  
Pre-requisites: THEA316 and THEA30 or THEA318  
Co-requisites: THEA317 and THEA321  
Restrictions: none  
Exclusions: none  
Assessment: Progressive 60%, practical 40%.  
Subject Description: By a practical exploration of text studied in THEA316 and THEA317 this subject will explore characterisation in performance in the investigation of making meaning based on techniques developed in THEA302. Techniques required for character development involving the unification of physical and vocal work and character intention will continue at an individual level. Exploration of this notion will also be further advanced in association with on-stage interaction in performance. A continuation of improvisation and text based exercises will underpin the notion of performance based on the acting methods of recognised practitioners and theorists including Carey, Benedetti, Cohen and Stanislavski.  
Subject Objectives: information unavailable

THEA316 Dramaturgy 5: Comic Traditions 6cp  
Autumn  Wollongong  On Campus  
Pre-requisites: THEA217 or an approved subject at 200-level or equivalent  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Tutorial paper 30%; practical research paper 30%; essay 40%.  
Subject Description: An historic, literary and dramaturgical analysis of the concept of  
Subject Objectives: information unavailable

THEA317 Dramaturgy 6: Alternative Theatre and the Avant-garde 6cp  
Spring  Wollongong  On Campus  
Pre-requisites: THEA31 or an approved subject at 300-level or equivalent  
Co-requisites: none
Subject Descriptions

Restrictions: none
Exclusions: none
Assessment: Tutorial paper 30%; practical research paper 30%; essay 40.
Subject Description: The fundamentals of dramaturgical analysis will be applied to a variety of contemporary theatrical practice (including physical theatre; multimedia, film and television; performance art) to facilitate an appreciation of growing and diverse performance trends. The subject will highlight the relationship between the function of
Subject Objectives: information unavailable

THEA318 Devised Theatre 4: Political Theatre 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (THEA217) and (THEA203) or (THEA219)
Co-requisites: (THEA316) and (THEA320)
Restrictions: none.
Exclusions: none.
Assessment: Research 30%; praxis 40%; analysis 30.
Subject Description: This subject provides a continuation of the development of devised theatre, with specific reference to popular, political theatre techniques. Students will work collaboratively to develop specific theatrical political projects in negotiation with Wollongong community based groups. This subject highlights the ability to creatively interpret and facilitate the theatrical needs of an independent entrepreneurial body. A critical assessment of the development of the event will form an integral part of the creative process.
Subject Objectives: information unavailable.

THEA320 Theatre Skills 5 6cp
Autumn Wollongong On Campus
Contact Hours: 3 x 2hr practical pw.
Pre-requisites: THEA217 and THEA203 or THEA219
Co-requisites: THEA302 and THEA316
Restrictions: none
Exclusions: none
Assessment: Progressive 100%. Subject Description: Students are required to take three (3) performance skills-based study areas. Students may also draw on skill-based classes offered under MUS320.
Subject Objectives: information unavailable

THEA321 Theatre Skills 6 6cp
Spring Wollongong On Campus
Contact Hours: 3 x 2hr practical pw.
Pre-requisites: THEA320 and THEA302
Co-requisites: THEA303 or THEA317
Restrictions: none
Exclusions: none
Assessment: Progressive 100%. Subject Description: Students are required to take three (3) performance skills-based study areas. Students may also draw on skill-based classes offered under MUS321.
Subject Objectives: information unavailable

VIS101 Visual Investigations A 6cp
Autumn Wollongong On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: Folio of Work
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Two assessments worth 50% each to consist of a folio of practical classwork and projects and process journal.
Subject Description: An introduction to the language of visual art and design through workshops, practical exercises and concept-based projects in which students will explore a range of graphic and visual art media. Field trips to relevant exhibitions and exposure to art and design history and theory will contextualise these studies. Emphasis will be placed on developing observational drawing skills.
Subject Objectives: information unavailable

THEA318 Devised Theatre 4: Political Theatre 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: (THEA217) and (THEA203) or (THEA219)
Co-requisites: (THEA316) and (THEA320)
Restrictions: none.
Exclusions: none.
Assessment: Research 30%; praxis 40%; analysis 30.
Subject Description: This subject provides a continuation of the development of devised theatre, with specific reference to popular, political theatre techniques. Students will work collaboratively to develop specific theatrical political projects in negotiation with Wollongong community based groups. This subject highlights the ability to creatively interpret and facilitate the theatrical needs of an independent entrepreneurial body. A critical assessment of the development of the event will form an integral part of the creative process.
Subject Objectives: information unavailable

THEA320 Theatre Skills 5 6cp
Autumn Wollongong On Campus
Contact Hours: 3 x 2hr practical pw.
Pre-requisites: THEA217 and THEA203 or THEA219
Co-requisites: THEA302 and THEA316
Restrictions: none
Exclusions: none
Assessment: Progressive 100%. Subject Description: Students are required to take three (3) performance skills-based study areas. Students may also draw on skill-based classes offered under MUS320.
Subject Objectives: information unavailable

THEA321 Theatre Skills 6 6cp
Spring Wollongong On Campus
Contact Hours: 3 x 2hr practical pw.
Pre-requisites: THEA320 and THEA302
Co-requisites: THEA303 or THEA317
Restrictions: none
Exclusions: none
Assessment: Progressive 100%. Subject Description: Students are required to take three (3) performance skills-based study areas. Students may also draw on skill-based classes offered under MUS321.
Subject Objectives: information unavailable

VIS101 Visual Investigations A 6cp
Autumn Wollongong On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: Folio of Work
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Two assessments worth 50% each to consist of a folio of practical classwork and projects and process journal.
Subject Description: An introduction to the language of visual art and design through workshops, practical exercises and concept-based projects in which students will explore a range of graphic and visual art media. Field trips to relevant exhibitions and exposure to art and design history and theory will contextualise these studies. Emphasis will be placed on developing observational drawing skills.
Subject Objectives: information unavailable

VIS102 Visual Investigations B 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: Folio of Work
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Two assessments both worth 50%. Each consisting of a folio of practical classwork and projects and process journal.
Subject Description: Further studies in the language of visual art and design through workshops, practical exercises and concept-based projects in which students will explore a range of graphic and visual art media. Field trips, exhibition visits and exposure to art and design history and theory will contextualise these studies. Emphasis will be placed on developing observational drawing skills.
Subject Objectives: information unavailable

VIS103 Introduction to Visual Arts Studio A 6cp
Autumn Wollongong On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: Folio of Work
Co-requisites: VIS121
Restrictions: none
Exclusions: none
Assessment: Exhibition and folio of completed works set in class and/or contracted projects 70%; working journals and individual research 30.
Subject Description: An introduction to concepts, processes and media within the areas of painting, printmaking, textiles and sculpture. The subject will include studio theory, introduction to the use of appropriate media and equipment, set class exercises, self-initiated projects and gallery visits. Practical work will be assessed on effort, imagination, experimentation and demonstrated skills.
Subject Objectives: information unavailable

VIS104 Introduction to Visual Arts Studio B 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs classes pw.
Pre-requisites: Folio of Work
Co-requisites: VIS122
Restrictions: none
Exclusions: none
Assessment: Two assessments worth 50% each consisting of a folio of practical classwork and projects and process journal.
Subject Description: An extension of work covered in VIS103 Visual Arts Studio A in concepts and media drawing from the basic areas of painting, printmaking, photography, sculpture and textiles. The subject will include studio theory, and
appropriate use of media and equipment, class exercises, self-initiated exercises and gallery visits. Practical work will be assessed on effort, imagination and experimentation in the work practice.

**Subject Objectives:** information unavailable

**VIS121** Classicism to Romanticism: Pre C20th European Art  
6cp

**Autumn**  
Wollongong  
On Campus

**Contact Hours:** 3hr classes pw.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Journal 30%; Essay 40%; Tutorial 20%; Participation 10%

**Subject Description:** This subject examines the origins and development of European art, beginning in the early Mediterranean, to 19th Century arts and design. The concepts of classicism and romanticism will be surveyed through a focus on specific areas of art and mythology in relation to their social and historical contexts.

**Subject Objectives:** information unavailable

**VIS122** Colonial and Early Modern Visual Arts in Australia  
6cp

**Spring**  
Wollongong  
On Campus

**Contact Hours:** 3hr classes pw.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Essay 40%; Tutorial 20%; journal 30%; Participation 10%

**Subject Description:** This subject surveys art, craft and design movements in Australia since European settlement, focusing on influences from Europe, America and Asia. Indigenous arts in nineteenth and early twentieth centuries form an inter-related strand. These histories are discussed with reference to individual artists and the social and cultural contexts of exploration and colonialism. Students are introduced to key concepts underpinning early modernism in visual art and design.

**Subject Objectives:** information unavailable

**VIS123** Introduction to Aboriginal Arts and Society  
6cp

**Autumn**  
Wollongong  
On Campus

**Contact Hours:** 3hrs lect/tut pw.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Tutorial presentation 20%; essay 50%; journal 30%

**Subject Description:** An approach to discovering the diversity of Aboriginal art including consideration of some traditional arts and new forms of expression. The subject introduces traditional Aboriginal culture, including music, performance and the visual arts. It focuses on contemporary Aboriginal arts and artists and the contexts in which Aboriginal artists practice.

**Subject Objectives:** information unavailable

**VIS124** Introduction to Photography  
6cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** none.

**Co-requisites:** none.

**Restrictions:** none.

**Exclusions:** none.

**Assessment:** Folio 1 - 25%; Folio 2 - 25%; Process 1 - 25%; Process 2 - 25%

**Subject Description:** This subject is designed as a service to artists for skills acquisition in photography. An introduction to the camera, basic camera techniques, and the handling of natural light. Instruction in film processing and print making in black and white. Introduction to the essential photographic materials, i.e. film, paper, chemicals etc. Print finishing, presentation and criticism.

**Subject Objectives:** information unavailable.

**VIS190** Visual Arts Workshop A  
6cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** (Folio of Work) or (VIS103) or (VIS104)

**Co-requisites:** none.

**Restrictions:** none.

**Exclusions:** none.

**Assessment:** By folio and written research.

**Subject Description:** Intensive workshops in the visual arts will be offered by professional artists and craftspeople. The workshops offered will depend on the tutors' expertise and availability, but will aim to develop the technical skills and creative potential of each student.

**Subject Objectives:** information unavailable.

**VIS201** Visual Investigations C  
6cp

**Autumn**  
Wollongong  
On Campus

**Contact Hours:** 4hr classes pw.

**Pre-requisites:** VIS102

**Co-requisites:** none.

**Restrictions:** none

**Exclusions:** none.

**Assessment:** Folio of work and/or contracted projects 60%; process journals and individual research 30%; research paper 10%

**Subject Description:** This subject further develops students' technical, visual and conceptual skills in graphic and drawing media. Classwork will be thematic with reference to contemporary issues, ideas and art practice. Emphasis will be placed on the development of independent ideas and visual language in each student.

**Subject Objectives:** information unavailable

**VIS202** Visual Investigations D  
6cp

**Spring**  
Wollongong  
On Campus

**Contact Hours:** 4hrs classes pw.

**Pre-requisites:** VIS201

**Co-requisites:** none.

**Restrictions:** none

**Exclusions:** none.

**Assessment:** Folio of Projects and Process work, including Journal and Research Topics. Two modules worth 50% each.

**Subject Description:** This subject further develops students' technical, visual and conceptual skills in graphic drawing and photographic media. Classwork will be thematic with reference to contemporary issues, ideas and art practice. Emphasis will
Subject Descriptions

be placed on the development of independent ideas and visual language.

**Subject Objectives:** information unavailable

**VIS203** Visual Arts Studio C  6cp

**Autumn** Wollongong  On Campus

**Contact Hours:** 4hr classes pw.

**Pre-requisites:** VIS103 and VIS104

**Co-requisites:** VIS221

**Restrictions:** none

**Exclusions:** none

**Assessment:** Process journals 20%; research 20%; class work and set projects 60%.

**Subject Description:** Students will be expected to build on the concepts, techniques and skills acquired in 100 level studies. Students will have the opportunity to choose studio areas from painting, printmaking, textiles (surface design or constructed) and sculpture, developing their practice through set exercises, gallery visits and self-initiated work.

**Subject Objectives:** information unavailable

**VIS204** Visual Arts Studio D  6cp

**Spring** Wollongong  On Campus

**Contact Hours:** 4 hr classes pw.

**Pre-requisites:** VIS203

**Co-requisites:** VIS222

**Restrictions:** none

**Exclusions:** none

**Assessment:** Process journals 20%; research paper 20%; class work and set projects 60%.

**Subject Description:** Students will be encouraged to develop further understanding of studio practice and contemporary practice through set exercises, gallery visits and self-initiated work. Students will have the opportunity to choose studio areas from painting, printmaking, sculpture or textiles (constructed or surface design).

**Subject Objectives:** information unavailable

**VIS221** The Object in Contemporary Material Culture  6cp

**Autumn** Wollongong  On Campus

**Contact Hours:** 3hr classes pw.

**Pre-requisites:** VIS121 or VIS122

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Essay 40%; tutorial 30%; review 20%; participation 10%.

**Subject Description:** This subject examines the changing object in twentieth century craft, art and design. The emphasis is on comprehending the theoretical background that informs the production and consumption of objects, including digital technologies. Objects will be analysed in terms of the wider material cultures both through visual criteria and through the historical and social contexts, such as changing social roles of men, women and indigenous people.

**Subject Objectives:** information unavailable

**VIS222** Revolutions in Art and Design: Ruskin to Rothko  6cp

**Spring** Wollongong  On Campus

**Contact Hours:** 3hr classes pw.

**Pre-requisites:** VIS221

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Essay 40%; tutorial 30%; review 20%; participation 10%.

**Subject Description:** This subject investigates key periods in art and design since the industrial revolution in Europe and America, with an Asian component. The influential ideas of John Ruskin and William Morris in the arts and crafts will be examined, as will the revolutionary artists in Constructivist, Dada and Surrealist movements. The role of the artist will be positioned in relation to the turbulent historical events of war and immigration.

**Subject Objectives:** information unavailable

**VIS223** Aboriginal Art and Land  6cp

**Spring** Wollongong  On Campus

**Contact Hours:** 3hr classes pw.

**Pre-requisites:** 24 cp at 100 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Tutorial presentation 20%; research project 60%; bibliography 10%; participation 10%.

**Subject Description:** An approach to the fundamental issues of Aboriginal art and land, both historically and in the present. Aboriginal beliefs about the land will be examined through visual arts and crafts, music, writing and performance. Students will research the relationship of art to land in a traditional community, a rural and transitional community or a contemporary urban community within a specific geographical area. Projects may include an artistic response.

**Subject Objectives:** information unavailable

**VIS241** The Experimental Book  6cp

**Spring** Wollongong  On Campus

**Contact Hours:** 4hr classes pw.

**Pre-requisites:** VIS102 or VIS104

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Folio of preparatory works and process journal 20%; completed works 60%; research topic (1000 words) 20%

**Subject Description:** What is an artist book? What is a livre d'artiste? This subject is designed to allow students with an interest in writing and image making to become familiar with this art form through slides, discussion, visits and the making of work. Papermaking and simple book structures will be part of the course and their appropriate use discussed leading up to the making of final works.

**Subject Objectives:** information unavailable
research, present their work for review on a regular basis and take active part in class reviews, seminars and excursions. Emphasis will be placed on individual development, self-management and awareness of contemporary visual arts issues.

**Subject Objectives:** information unavailable

**VIS304** Advanced Visual Arts Studio F  6cp  
Spring  
Contact Hours: 4hr classes pw.

Pre-requisites: VIS303  
Co-requisites: VIS302 and VIS322  
Restrictions: none  
Exclusions: none  
Assessment: Folio of work- 20%, exhibition - 60% and written research - 20%.

**Subject Description:** Students may choose to specialise or combine visual arts media. Interdisciplinary work will be encouraged. A self-initiated major project will be developed in consultation with the lecturer and appropriate research undertaken. Students will document their work processes and research, present their work for review on a regular basis and take active part in class reviews, seminars and excursions. Emphasis will be placed on individual development, self-management and awareness of contemporary visual arts issues.

**Subject Objectives:** information unavailable
Subject Descriptions

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**Assessment:**
- VIS341: Pre-requisites: VIS241 or (VIS204) and (VIS222) both passed at distinction level or better
- VIS350: Pre-requisites: (Folio of Work) or (VIS203) or (VIS204)
- VIS390: Pre-requisites: Folio of preparatory works, source materials and documentation 30%; completed works 60%. Research paper 1000 words 10%
- WRIT101: Pre-requisites: WRIT101 or WRIT111
- WRIT111: Pre-requisites: Folio of work, interview
- WRIT119: Pre-requisites: WRIT111 or WRIT101
- WRIT121: Pre-requisites: WRIT111 or WRIT101 (with appropriate result)

**Subject Objectives:**
- VIS341: By folio and written research.
- VIS350: By folio and written research.
- VIS390: Intensive workshops in the visual arts will be offered by professional artists and craftsmen. The workshops offered will depend on the tutors' expertise and availability, but will aim to develop the technical skills and creative potential of each student.
- WRIT101: By folio and written research.
- WRIT111: By folio and written research.
- WRIT119: By folio and written research.
- WRIT121: By folio and written research.
WRIT122 Writing Prose Fiction 100 6cp
Spring Wollongong On Campus
Contact Hours: 3hrs per wk.
Pre-requisites: WRIT111 or WRIT101 (with appropriate result)
Co-requisites: WRIT129
Restrictions: none
Exclusions: none
Assessment: Major project 60%; web site review - short essay 30%; participation 10%.

Subject Description: A subject in writing for the internet, focussing primarily on the use of language - in its narrative and metaphorical aspects - but also exploring how graphic and sound input can relate to overall site design. Students will research internet writing strategies and methodologies in theory and practice, applying their findings in a review of existing web sites, and will develop a web page using their own creative writing.

Subject Objectives: information unavailable

WRIT211 Writing/Performing 6cp
Autumn Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT111 or WRIT101 (with appropriate result)
Co-requisites: WRIT219
Restrictions: none
Exclusions: none
Assessment: Performance 40%; seminar 30%; draft performance 20%; participation 10%.

Subject Description: This subject is for students who want to write and perform their own text. It examines the nature of the "performable voice" (in short poetry and prose) and how to write and stage it. Storytelling, monologue and performance poetry are the main forms explored.

Subject Objectives: information unavailable

WRIT123 Poetry 100: Introduction to Writing Poetry 6cp
Spring Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT111 or WRIT101 (with appropriate result)
Co-requisites: WRIT129
Restrictions: none
Exclusions: none
Assessment: Portfolios 70%; exercises 20%; annotated anthology and class participation 10%.

Subject Description: This subject introduces the writing of poetry, exploring those features that make poetry distinctive from other forms of writing. Emphasis will be on both the student's own writing and the work of a wide range of poets, mainly though not exclusively modern.

Subject Objectives: information unavailable

WRIT129 Theory for Practising Writers: Realism to Modernism 6cp
Spring Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT119
Co-requisites: 6 credit points of any WRIT subject
Restrictions: none
Exclusions: none
Assessment: Essays 60%; tutorial papers 30%; participation 10%.

Subject Description: The tradition of writing theory and its applicability to contemporary writing practice, concentrating on a number of key texts in poetics from Realism to Modernism. Various works (in poetry, prose and drama) will be examined which may be seen to exemplify, modify or challenge these poetics. Students will be required to reflect (both creatively and analytically) on their ongoing writing practice in the light of these texts.

Subject Objectives: information unavailable

WRIT210 Writing for the Internet 6cp
Autumn Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT111 or WRIT101 (with appropriate result)
Co-requisites: WRIT219
Restrictions: none

Exclusions: none
Assessment: Major project 60%; web site review - short essay 30%; participation 10%.

Subject Description: A subject in writing for the internet, focussing primarily on the use of language - in its narrative and metaphorical aspects - but also exploring how graphic and sound input can relate to overall site design. Students will research internet writing strategies and methodologies in theory and practice, applying their findings in a review of existing web sites, and will develop a web page using their own creative writing.

Subject Objectives: information unavailable

WRIT212 Writing Prose Fiction 200 6cp
Autumn Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT122 and WRIT129
Co-requisites: WRIT219
Restrictions: none
Exclusions: none
Assessment: Portfolio 60%; exercises on advanced prose techniques 30%; participation 10%.

Subject Description: The development of prose fiction writing in both short and extended forms and a consideration of the processes of adaption. An examination of writing strategies in a range of modes, from realism to metafiction and various de-metaphorising texts. Studies in the techniques of fiction writing concentrating on stylistic variants in dialoguing, voice, text focalisation and uses of description. An intensive workshopping of participants' work will operate throughout the subject.

Subject Objectives: information unavailable

WRIT213 Poetry 200: Poetic Forms 6cp
Spring Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT123 and WRIT129
Co-requisites: WRIT229
Restrictions: none
Exclusions: none
Assessment: Portfolios 90%; annotated anthology and class participation 10%.

Subject Description: The development of prose fiction writing in both short and extended forms and a consideration of the processes of adaption. An examination of writing strategies in a range of modes, from realism to metafiction and various de-metaphorising texts. Studies in the techniques of fiction writing concentrating on stylistic variants in dialoguing, voice, text focalisation and uses of description. An intensive workshopping of participants' work will operate throughout the subject.

Subject Objectives: information unavailable
Subject Descriptions

WRIT214 Writing For Theatre 200  6cp
Autumn  Wollongong  On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT121 and WRIT129
Co-requisites: WRIT219. WRIT219 co-requisite waived for BA
students specialising in Communication & Cultural Studies.
Restrictions: none
Exclusions: none
Assessment: Script 40%; tutorial paper 20%; theory paper
20%; journal 10%; participation 10%.
Subject Description: Students undertake a thorough
investigation, via lectures, workshopping, tutorial presentations,
and guided discussions, of the techniques and theory of writing
for the stage and for performance. Linear and non-linear
traditions, characterisation, dialogue, humour, and a variety of
structures including climactic, episodic, situational, vertical and
reflexive are examined. Students complete a script and
undertake theoretical studies relevant to practice. Students are
courage to master, but also challenge, conventions, and to
explore collective modes of writing.
Subject Objectives: information unavailable

WRIT215 Writing For Film and Television 200  6cp
Spring  Wollongong  On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT121 and WRIT129
Co-requisites: WRIT229. WRIT229 co-requisite waived for BA
students specialising in Communications & Cultural Studies.
Restrictions: none
Exclusions: none
Assessment: Major project 50%; tutorial presentation 10%;
tutorial paper 20%; journal 10%; participation 10%.
Subject Description: This subject prepares students to write
scripts at professional standard for the screen. Lectures,
workshopping, tutorial papers and guided discussion develop
students' knowledge, skill and theory in such areas as structure,
characterisation, dialogue, adaptation, genre, and visualisation.
Students will write a script for the screen and will be introduced
to alternative dramatic structures for screen writing, as well as
learning how to write critically about screenwriting.
Subject Objectives: information unavailable

WRIT217 Arts Journalism 200  6cp
Spring  Wollongong  On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT101 or WRIT111
Co-requisites: WRIT219
Restrictions: none
Exclusions: none
Assessment: Portfolio 40%; seminar paper 20%; theory paper
20%; journal 10%; participation 10%.
Subject Description: The principles, practice and theory of
feature journalism as it applies to the Arts. Strong emphasis on
critical writing, with close attention also to interviewing,
biography and profile writing, and feature articles. Students
write, workshop, and discuss material from a variety of media.
Emphasis is also placed upon students forming ethical
standards in regard to arts journalism.
Subject Objectives: information unavailable

WRIT219 Theory for Practising Writers: Modernism to
Structuralism 6cp
Autumn  Wollongong  On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT129
Co-requisites: Any WRIT subject
Restrictions: none
Exclusions: none
Assessment: Essays 60%; tutorial papers 30%; participation
10%.
Subject Description: The tradition of writing theory and its
applicability to contemporary writing practice. Key texts in
poetics from Modernism to Structuralism and an examination of
various works (in poetry, prose, drama and film) which may be
seen to exemplify, modify or challenge these poetics. Students
will be required to reflect (both creatively and analytically) on
their ongoing writing practice in the light of these texts.
Subject Objectives: information unavailable

WRIT222 Writing Extended Prose Fiction  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: WRIT 212
Co-requisites: WRIT229
Restrictions: none.
Exclusions: none.
Assessment: Extract from Extended Prose Text 60%; seminar
presentation 30%; workshop participation 10%.
Subject Description: This subject seeks to identify a range of
structural and stylistic variants in extended prose works
- specifically that of the novella - and to articulate appropriate
writing strategies in a spectrum of modes. A number of
exemplary texts are examined in order to provide a variety of
possible models. The latter part of the unit will be spent in
intensive workshopping of participants' original work.
Subject Objectives: information unavailable.

WRIT228 Writing For Sound 200  6cp
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT121
Co-requisites: WRIT 212
Restrictions: none
Exclusions: none.
Assessment: Treatment or interim score 30%; script or score
with a statement of poetics 50%; in-class exercises and
participation 10%.
Subject Description: The fundamentals of scriptwriting or
scoring for sound in both conventional and experimental modes.
The subject will examine the creative use of the sound medium
in radio drama, documentary and other audio art texts.
Particular attention will be paid to the Neues Hörspiel group
and their attack on the classic realist radio drama. An intensive
workshopping of participants' work will operate in the second
part of the subject.
Subject Objectives: information unavailable
WRIT229 Theory for Practising Writers: Structuralism to the Post-modern 6cp
Spring Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT219
Co-requisites: Any WRIT subject
Restrictions: none
Exclusions: none
Assessment: Essays 60%; tutorial paper 30%; participation 10%
Subject Description: The tradition of writing theory and its applicability to contemporary writing practice. Key texts in poetics from Structuralism to the Post-modern and an examination of various works (in poetry, prose, drama and film) which may be seen to exemplify, modify or challenge these poetics. Students will be required to reflect (both creatively and analytically) on their ongoing writing practice in the light of these texts.
Subject Objectives: information unavailable

WRIT312 Advanced Prose Fiction A 6cp
Autumn Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT212 or WRIT222
Co-requisites: WRIT319
Restrictions: none
Exclusions: none
Assessment: Portfolios 60%; exercises 30%; participation 10%
Subject Description: This subject will concentrate on some of the alternative structures and approaches available to contemporary writers such as magic realism, documentary and biographical fiction, ficto-criticism, the poetic novel. The subject will examine the work of a range of contemporary writers working in a variety of styles and modes. There will be extensive workshopping of students' work. Students may engage in longer fictional forms (novella, novel) developing their work over this subject and WRIT322.
Subject Objectives: 1. employ and/or extend a range of stylistic modes - magic realism, documentary and biographical fiction, ficto-criticism, the poetic and lyrical - in their own writing practice. 2. understand the role of the reader in the construction of the text. 3. successfully integrate a wide range of formal and stylistic elements into one or a series of longer texts. 4. give and receive appropriate workshop feedback. 5. set and achieve specific creative goals with a view to publication.

WRIT313 Advanced Poetry A 6cp
Autumn Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT213
Co-requisites: WRIT319
Restrictions: none
Exclusions: none
Assessment: Portfolios 70%; Exercises and performance 20%; Participation 10%
Subject Description: This subject explores myth, discourses on language, politics and performance in poetry writing. Students experiment with various themes, poetic forms and techniques, and examine their personal poetics in relation to those of established poets and the poetic tradition. Writing on and with myths, re-inventing/contemporising traditional mythologies and personal mythmaking will be given special attention. Transforming poetry into performance and actual performance of text will also be a major concern.
Subject Objectives: 1. Reflect on key concepts in the poetics of some major poets then apply these concepts towards honing craft and developing a personal poetics 2. Demonstrate how myths from various cultures are used in contemporary poetry then explore these strategies to enrich his/her own poetry. 3. Articulate the relationship between poetry and politics in the works of specified poets and his/her own poetry. 4. Reflect on the language concerns in the poetic process. 5. Experiment in writing poetry for performance and actual performance of own text.

WRIT314 Writing For Theatre 300 6cp
Spring Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT214
Co-requisites: WRIT329
Restrictions: none
Exclusions: none
Assessment: Major project 60%; tutorial presentation and paper 20%; journal 10%; participation 10%
Subject Description: This subject is conducted primarily through the development of a full-length script for the stage. Students will also study the practical application of dramatic theory. Workshopping, lectures, tutorial papers and guided discussion will develop skills in conjunction with practical theory, so that students may achieve professional standards. Links with the theatre industry will be encouraged.
Subject Objectives: information unavailable

WRIT315 Writing For Film and Television 300 6cp
Autumn Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT215
Co-requisites: WRIT319
Restrictions: none
Exclusions: none
Assessment: Major project 60%; tutorial paper 20%; journal 10%; participation 10%
Subject Description: This subject is conducted primarily through the development of a full-length script for the screen. Students will also study the practical application of screenwriting theory. Workshopping, lectures, tutorial papers and guided discussion will develop skills in conjunction with practical theory, so that students may achieve professional standards. Links will be encouraged with the film and television industries.
Subject Objectives: information unavailable

WRIT317 WRIT317 Writing for the Media 6cp
Autumn Wollongong On Campus
Contact Hours: 3hr classes pw.
Pre-requisites: WRIT217
Co-requisites: WRIT319
Restrictions: none
Exclusions: none
Assessment: Feature article 40%; review essay 30%; seminar presentation 20%; class participation 10%
Subject Description: Students will further refine and develop writing techniques from Arts Journalism 200 focussing in particular on the review essay and feature article. Applying perspectives from media theory and cultural studies, students will analyse, evaluate and report on a wide range of cultural
forms and practices. Special attention will be given to issues of self-reflexivity, and how the subject position of the writer/perceiver affects the reporting process.

Subject Objectives: information unavailable

WRIT319 Contemporary Theory and the Practising Writer: Post-structuralism 6cp

Autumn Wollongong On Campus

Contact Hours: 3hr classes pw.
Pre-requisites: WRIT229
Co-requisites: Any WRIT subject
Restrictions: none
Exclusions: none
Assessment: Essays 60%; seminar papers 30%; class participation 10%.

Subject Description: This subject examines various post-structuralist and contemporary oppositional poetics. The syllabus will consider Deconstruction, post-structural gender and psychoanalytic theories, various post-colonial perspectives and developments in ethical literary criticism. Students will be required to reflect (both creatively and analytically) on their ongoing writing practice in the light of these poetics.

Subject Objectives: information unavailable

WRIT322 Advanced Prose Fiction B 6cp

Spring Wollongong On Campus

Contact Hours: 3hr classes pw.
Pre-requisites: WRIT212 or WRIT222
Co-requisites: WRIT329
Restrictions: none
Exclusions: none
Assessment: Portfolios 70%; exercises 20%; participation 10%.

Subject Description: This subject will be based around a series of seminars centering on issues such as the uses of history and (auto) biography in fictional texts; inter-textuality and forms of pastiche; lyric subversion; self-referentiality; scriptural realism; the 'writing-over' of existing texts and the process of adaptation. Attention will be paid to the 'business' aspect of writing; dealings with agents and publishers, festivals, readings, shaping material for blurbs, biographical notes etc. There will be extensive workshopping of students' work.

Subject Objectives: 1. employ a range of stylistic devices - pastiche, lyric subversion, scriptural realism, the 'over-writing' of existing texts - in their own writing practice 2. identify similar stylistic devices in given contemporary texts 3. harness elements of (auto) biography and historical material within a fictional text 4. develop a broad strategy for the adaptation of a prose fiction text to the medium of film 5. develop a realistic 'business plan' for the promotion of their writing.

WRIT323 Advanced Poetry B 6cp

Spring Wollongong On Campus

Contact Hours: 3hr classes pw.
Pre-requisites: WRIT213
Co-requisites: WRIT329
Restrictions: none
Exclusions: none
Assessment: Long narrative poem or a narrative sequence together with some drafts 70%; class participation 15%; written exercises 15%

Subject Description: This subject is concerned with narrative poetry: ballads, sequences, dramatic monologues, epics, with the workshopping involving the narratives and/or sequences of the class members.

Subject Objectives: information unavailable

WRIT328 Writing For Sound 300 - Scoring and Production 6cp

Spring Wollongong On Campus

Contact Hours: 3hr classes pw.
Pre-requisites: WRIT228
Co-requisites: WRIT329
Restrictions: none
Exclusions: none
Assessment: Produced audio text 40%; script/score 20%; tutorial paper 30%; participation 10%.

Subject Description: This subject involves the detailed analysis of acoustic texts from both the 'drama' and 'play' spheres and seeks to develop a poetic for acoustic art. Particular attention will be paid to sound montage as 'revolutionary language'. The notion of 'writing on tape' will be explored as an alternative to conventional scripting. A production component will deal with the various stages of multi-track construction.

Subject Objectives: information unavailable

WRIT329 Contemporary Theory and the Practising Writer: Case Studies 6cp

Spring Wollongong On Campus

Contact Hours: 3hr classes pw.
Pre-requisites: WRIT319
Co-requisites: Any WRIT subject
Restrictions: none
Exclusions: none
Assessment: Statement of poetics 50%; case study 40%; class participation 10%.

Subject Description: This subject involves a number of case studies of current writers/dramatists/filmmakers specifically examining the inter-relationship between theory and practice in their work. Students will be required to reflect (both creatively and analytically) on their ongoing writing practice in the light of these texts and to construct a detailed positioning of their own work.

Subject Objectives: information unavailable
Faculty of Education

Degrees Offered

Bachelor of Teaching (Early Childhood Education) (3 years full time study) - 881
Bachelor of Teaching (Primary Education) (3 years full time study) - 880
Bachelor of Education (Primary Education) (4 years full time study) - 871
Bachelor of Education (Physical and Health Education) (4 years full time study) - 804
Bachelor of Arts (Education) - 702

The Faculty of Education offers a wide variety of subjects, some of which may be undertaken as part of the Bachelor of Arts Degree, and others which are studied in one or more of the various Bachelor of Teaching and Bachelor of Education Degree Courses.

All subjects offered by the Faculty of Education are subject to adequate enrolments.

Honours Programs

Students who have attained an approved standard of achievement during the second and third year of their course may enter a program which leads to the award of the Bachelor of Education with Honours. Honours is awarded at the end of the course on the basis of the criteria set out following each of the relevant course structures.

Bachelor of Education in Early Childhood Education (Honours) - 883
Bachelor of Education in Primary Education (Honours) - 870
Bachelor of Education in Physical and Health Education (Honours) - 872

Graduate Diploma in Education

A one year Graduate Diploma in Education program which provides a professional teaching qualification for either primary or secondary education is available to students with a recognised undergraduate degree.

Acceptance into this program is not only dependent on completion of the undergraduate degree, but consideration will be given to the pattern of study completed. That is, preference will be given to those students who comply with New South Wales Department of Education and Training requirements for employment as a teacher in New South Wales. Students are reminded that requirements have recently changed and should check with the Faculty of Education prior to the completion of their undergraduate studies.

Graduate School of Education

Subjects offered by the Graduate School of Education have been extensively restructured to offer a series of articulated courses progressing from Graduate Certificate to Doctoral level. Candidates without the teacher training background of many of our traditional graduate students can enter postgraduate study at either Graduate Certificate or Graduate Diploma level, and then proceed through the higher degree structure in their area of interest. A range of Graduate Certificates have been introduced to provide access to graduate study in educational settings to holders of degrees in other disciplines and working in non-school areas.

Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/, or contact the relevant Faculty.
Course Structures

Bachelor of Teaching (Early Childhood Education) - 881

The Bachelor of Teaching in Early Childhood Education program focuses upon developing early childhood teachers as critically reflective teachers and managers who can work with children across the age range 0-8 years in a variety of early childhood settings. Course content covers: Foundations of Education (psychology, history, sociology, and philosophy of early childhood education); Curriculum Studies (e.g. Mathematics, Science, Language, Creative Arts, in early childhood education); Managing Early Childhood Learning Environments; and Child Development and Care. Field work is an ongoing component throughout the course, and students are expected to conduct independent and collaborative inquiry in the field as part of their learning and assessment tasks.

Approaches to course delivery emphasise students’ autonomy and critical reflection in their learning.

Students are involved in problem-solving and field and library research, which is conducted in teams, and follows from input provided by lecturing staff. A teamwork approach is also used to promote students’ interpersonal skills, which is seen to be an identifiable requirement for early childhood practitioners. A three-stage framework that provides a scaffolding which is systematically released over the three years of the course, further aims to develop skills in self-directing team work.

Students enrolled in the Bachelor of Teaching in Early Childhood Education are required to undertake a teaching practicum in each year. Practicum experiences include 5-8 year-olds in K-2 classrooms; 3-5 year olds in preschool and long day care settings; and a six week extended teaching practicum.

Appropriate arrangements are made to cater for the needs of students not proceeding through the program at the normal rate, as defined in the schedule below. Such students will need to consult with the Early Childhood Education Course Director, at enrolment.

**Year 1 - Autumn Session**
- EDUF111 Education I
- EDU1121 Curriculum and Pedagogy I Early Childhood
- EDUL101 Language and Literacy Education I
- EDUA111 Creative and Expressive Arts in Early Childhood Education

**Year 1 - Spring Session**
- EDIT102 Information Technology for Learning
- EDUS122 Science and Mathematics in Early Childhood I
- EDUF104 Early Childhood Learning Environment I
- EDUF106 Child Development and Care I

**Year 2 - Autumn Session**
- EDUF201 Early Childhood Learning Environment II
- EDUP201 Personal Development Health and Physical Education
- EDUS203 Human Society and Its Environment
- EDUS213 Science and Mathematics in Early Childhood II

**Year 2 - Spring Session**
- EDUF204 Learners with Exceptional Needs
- EDUF212 Education II
- EDUF232 Early Intervention and Children with Special Needs
- EDUF252 Child Development and Care II

**Year 3 - Autumn Session**
- EDUF303 Early Childhood Learning Environment III
- EDUF313 Historical and Philosophical Perspectives of Early Childhood
- EDUL301 Language and Literacy Studies in Early Childhood
- EDUF353 Management of Early Childhood Services

**Year 3 - Spring Session**
- EDUF304 Early Childhood Curriculum
- EDUT312 Early Childhood Extended Practicum
Bachelor of Education (Early Childhood Education) with Honours - 883

Students admitted to the Honours program will be expected to study over two sessions for a total of 48 credit points. The program requires the completion of a 24 credit point thesis, EDUT496 - Honours Thesis in Early Childhood, an annual subject, plus EDUT495 - Selected Topics in Early Childhood Education, plus one of the 400-level elective subjects from the Bachelor of Education Primary course structure. Students from other institutions who have not completed equivalent subjects in their previous studies may be required to enrol in an approved Research Methods subject.

The grade of Honours awarded will be determined by the calculation of a weighted average of merit points achieved at the first attempt in the 400-level subjects only using the formula:

\[
\text{weighted average mark} = \frac{\sum \text{mlc}}{\sum \text{lc}}
\]

(for further detail refer to the Course Rules).

The Class of Honours will be based upon the weighted average mark achieved according to the following scale:

Class I: 85 -100% of merit points
Class II Division 1: 75 - 84% of merit points
Class II Division 2: 65 - 74% of merit points

Students who enter the Honours program and fail to achieve the appropriate level of merit points may be eligible for a Bachelor of Education Pass degree.

Bachelor of Teaching (Primary Education) - 880

The Bachelor of Teaching in Primary Education is a three year full-time course aimed at developing reflective, professional teachers who, at graduation, can work effectively in a variety of educational settings including primary schools in both the public and private sectors. The course involves both academic studies and practical teaching experiences in each year. The details relating to practice teaching requirements are noted in the subject descriptions for Curriculum and Pedagogy I, Curriculum and Pedagogy II and Curriculum and Pedagogy III.

The academic subjects studied in the course are drawn from four strands: Education Foundation Studies, Studies in the Key Learning Areas, Studies in Curriculum and Pedagogy and Elective Studies. Elective choices are available from both within the Faculty and from the schedules of subjects offered by other Faculties. Year one of the course requires students to complete 12 credit points of elective studies outside the Faculty of Education.

The structure below shows the normal rate of progress through the course. While it is possible to complete the course on a part-time basis, students need to be aware that there could be timetable difficulties. Students intending to attempt the degree part-time should consult with the Director of Primary Education at enrolment.

Year 1 - Autumn Session

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUF111</td>
<td>Education I</td>
<td>6</td>
</tr>
<tr>
<td>EDUL101</td>
<td>Language and Literacy Education I</td>
<td>6</td>
</tr>
<tr>
<td>EDUT111</td>
<td>Curriculum and Pedagogy I</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one 6 credit point subject chosen from those subjects on offer in any Faculty other than the Faculty of Education in which the students enrolment is accepted. Refer to the General Schedule.

Year 1 - Spring Session

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDIT102</td>
<td>Information Technology for Learning</td>
<td>6</td>
</tr>
<tr>
<td>EDUS102</td>
<td>Science and Technology Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUS104</td>
<td>Human Society and Its Environment</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one 6 credit point subject chosen from those subjects on offer in any Faculty other than the Faculty of Education. Refer to the General Schedule.

Year 2 - Autumn Session

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUA201</td>
<td>Creative Arts Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUP201</td>
<td>Personal Development, Health and Physical Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUM201</td>
<td>Mathematics Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUT211</td>
<td>Curriculum and Pedagogy II</td>
<td>6</td>
</tr>
</tbody>
</table>
### Course Structures

#### Year 2 - Spring Session

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUF204</td>
<td>Learners with Exceptional Needs</td>
<td>6</td>
</tr>
<tr>
<td>EDUL202</td>
<td>Language and Literacy Education II</td>
<td>6</td>
</tr>
<tr>
<td>EDUF212</td>
<td>Education II</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one of the following Key Learning Area Elective Studies:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUA224</td>
<td>Creative Arts Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUL224</td>
<td>Language Education Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUM224</td>
<td>Mathematics Education Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUP226</td>
<td>Personal Development, Health and Physical Education Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUS224</td>
<td>Science and Technology Education Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUS226</td>
<td>Human Society and Its Environment Key Learning Area Elective I</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Year 3 - Autumn Session

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUF311</td>
<td>Education III</td>
<td>6</td>
</tr>
<tr>
<td>EDUT301</td>
<td>Research Methods</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one of the following Key Learning Area Elective Studies:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUA331</td>
<td>Creative Arts Key Learning Area Elective II</td>
<td>6</td>
</tr>
<tr>
<td>EDUL335</td>
<td>Language Education Key Learning Area Elective II</td>
<td>6</td>
</tr>
<tr>
<td>EDUM333</td>
<td>Mathematics Education Key Learning Area Elective II</td>
<td>6</td>
</tr>
<tr>
<td>EDUP335</td>
<td>Personal Development, Health and Physical Education Key Learning Area Elective II</td>
<td>6</td>
</tr>
<tr>
<td>EDUS333</td>
<td>Science and Technology Education (K-6) Key Learning Area Elective II</td>
<td>6</td>
</tr>
<tr>
<td>EDUS335</td>
<td>Human Society and Its Environment Key Learning Area Elective II</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one Elective Studies subject to be chosen from the list below or from 200/300 level subjects in the General Schedule. Subjects that do not have sufficient enrolments will not run.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUE301</td>
<td>Issues in Aboriginal Education (Not to count with ABST361)</td>
<td>6</td>
</tr>
<tr>
<td>EDUE303</td>
<td>Teaching Language and Literacy Through Literature in Early Childhood</td>
<td>6</td>
</tr>
<tr>
<td>EDUE305</td>
<td>Design and Assessment of Learning Experiences for Adults</td>
<td>6</td>
</tr>
<tr>
<td>EDUE307</td>
<td>Physical Education: Coaching and Sports Administration</td>
<td>6</td>
</tr>
<tr>
<td>EDUE313</td>
<td>Interactive Multimedia by Design</td>
<td>6</td>
</tr>
<tr>
<td>EDUE315</td>
<td>Environmental Education - The Natural Environment</td>
<td>6</td>
</tr>
<tr>
<td>EDUE317</td>
<td>English Language: Examining Learners Problems</td>
<td>6</td>
</tr>
<tr>
<td>EDUE319</td>
<td>Programming and Methodology in Second Language Teaching</td>
<td>6</td>
</tr>
<tr>
<td>EDUE320</td>
<td>Behaviour Management (Not to count with EDUE311)</td>
<td>6</td>
</tr>
<tr>
<td>EDUE321</td>
<td>Reading Difficulties (Not to count with EDUE312)</td>
<td>6</td>
</tr>
<tr>
<td>EDUL330</td>
<td>Practicum or Project in Second Language Teaching</td>
<td>6</td>
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</tbody>
</table>

#### Year 3 - Spring Session

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUT302</td>
<td>Curriculum &amp; Pedagogy III</td>
<td>12</td>
</tr>
</tbody>
</table>

Plus one of the following Key Learning Area Elective Studies:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUA224</td>
<td>Creative Arts Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUL224</td>
<td>Language Education Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUM224</td>
<td>Mathematics Education Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUP226</td>
<td>Personal Development Health and Physical Education Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUS224</td>
<td>Science and Technology Education Key Learning Area Elective I</td>
<td>6</td>
</tr>
<tr>
<td>EDUS226</td>
<td>Human Society and Its Environment Key Learning Area Elective I</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one Elective Studies subject to be chosen from the list below or from 200/300 level subjects in the General Schedule. Subjects that do not have sufficient enrolments will not run.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUE302</td>
<td>Aboriginal Pedagogy (Not to count with ABST 362)</td>
<td>6</td>
</tr>
<tr>
<td>EDUE304</td>
<td>Teaching Language Through Literature in the Primary and Middle Years</td>
<td>6</td>
</tr>
<tr>
<td>EDUE306</td>
<td>Learning Strategies and Communication in Adult Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUE308</td>
<td>PDHPE: Health Promotion</td>
<td>6</td>
</tr>
<tr>
<td>EDUE314</td>
<td>Interactivity and the Web (Designing Hypertext Multimedia)</td>
<td>6</td>
</tr>
<tr>
<td>EDUE316</td>
<td>Environmental Education - The Built Environment</td>
<td>6</td>
</tr>
<tr>
<td>EDUE320</td>
<td>Behaviour Management (Not to count with EDUE311)</td>
<td>6</td>
</tr>
<tr>
<td>EDUL240</td>
<td>Materials and Technology in Second Language Teaching</td>
<td>6</td>
</tr>
<tr>
<td>EDUL330</td>
<td>Practicum or Project in Second Language Teaching</td>
<td>6</td>
</tr>
</tbody>
</table>
Summer Session
EDUE333 International Teaching Project 6

Knowledge Building Community (KBC) - Mentor Program

It is possible for students to participate in an innovative approach to teacher training, the KBC - Mentor Program. Students who participate in the KBC - Mentor Program complete the requirement of Bachelor of Teaching in Primary Education by engaging in collaborative problem solving under the guidance of mentoring lectures who have expertise in problem based learning.

Bachelor of Education (Primary Education) - 871

The Bachelor of Education in Primary Education requires, as a pre-requisite, the successful completion of a Bachelor of Teaching in Primary Education or its equivalent. The course is designed to develop further the knowledge and skills acquired in the Bachelor of Teaching course. It can be completed on either a full-time or a part-time basis.

Completion of this program requires one year of full-time study or the equivalent of part time study (2 years). Some subjects will be offered after 3.30 pm to allow for students who are working during the day to take some of their course after school hours. Students who wish to attend university only in the evenings will need to enrol in the part-time mode.

Year 4 - Autumn Session

Either
EDUF421 Leadership and International Perspectives In Education 6
or
EDUT422 Reflective Practice 6

Plus one elective from any part of the Primary program including KLA electives, Discipline electives or a 200 or higher level subject chosen from those on offer in any Faculty other than the Faculty of Education in which the student’s enrolment is accepted. Plus either two subjects selected from the following Key Learning Area Elective Studies subjects.

EDUA441 Creative Arts Key Learning Area Elective III 6
EDUL441 Language Education Key Learning Area Elective III 6
EDUM441 Mathematics Education Key Learning Area Elective III 6
EDUP441 Personal Development Health and Physical Education Key Learning Area Elective III 6
EDUS411 Science and Technology Education Key Learning Area Elective III 6
EDUS441 Human Society and Its Environment Key Learning Area Elective III 6

Or one subject selected from the Key Learning Area Elective Studies subjects set out above plus one subject selected from the Elective Studies subjects listed below.

EDUE401 Issues In Aboriginal Education (Not to count with EDUE301/ABST361) 6
EDUE405 Assessing Performance in Adult Training 6
EDUE407 Inquiry Project in Physical and Health Education 6
EDUE408 Placement in Physical and Health Education 6
EDUE411 Disability Issues Across the Lifespan 6
EDUE413 Managing Multimedia Resources 6
EDUE415 School and Community Based Sustainable Development Practices 6
EDUE317 English Language Examining Learners’ Problems 6
EDUE319 Programming and Methodology in Second Language Teaching 6
EDUT432 Project in Education 6

Year 4 - Spring Session

Either
EDUT422 Reflective Practice 6
or
EDUF421 Leadership and International Perspectives In Education 6

Plus one elective from any part of the Primary program including KLA electives, Discipline electives or a 200 or higher level subject chosen from those on offer in any Faculty other than the Faculty of Education in which the student’s enrolment is accepted.
Course Structures

Plus either two subjects selected from the following Key Learning Area Elective Studies subjects

- EDUA442 Creative Arts Key Learning Area Elective IV 6
- EDUL442 Language Education Key Learning Area Elective IV 6
- EDUM442 Mathematics Education Key Learning Area Elective IV 6
- EDUP444 Personal Development Health and Physical Education Key Learning Area Elective IV 6
- EDUS414 Science and Technology Education Key Learning Area Elective IV 6
- EDUS444 Human Society and Its Environment Key Learning Area Elective IV 6

Or one subject selected from the Key Learning Area Elective Studies subjects set out above plus one subject selected from the Elective Studies subjects listed below.

- EDUE402 Aboriginal Pedagogy (Not to count with EDUE302/ABST362) 6
- EDUE406 Theories of Adult Learning 6
- EDUE407 Inquiry Project in Physical and Health Education 6
- EDUE408 Placement in Physical and Health Education 6
- EDUE412 Programming for Individuals with Moderate to Severe Disabilities 6
- EDUE414 Cognition, Interface and Interactivity 6
- EDUE416 Environmental Education - Through Information Technology 6
- EDUL240 Materials and Technology in Second Language Teaching 6
- EDUT432 Project in Education 6

Bachelor of Education (Primary Education) with Honours - 870

Students admitted to the Honours program must enrol in EDUT 403 - Research Methods In Education in Autumn Session plus a 24 credit point thesis, EDUT 493 - Thesis (annual) plus 3 subjects chosen from 400 level subjects offered in the Bachelor of Education course structure.

The grade of Honours awarded will be determined by the calculation of a weighted average of merit points achieved at the first attempt in the 400-level subjects only using the formula:

\[
\text{weighted average mark} = \frac{\sum_{i=1}^{n} m_i c_i}{\sum_{i=1}^{n} c_i}
\]

(see regulations listed in the Course Rules).

The Class of Honours will be based upon the weighted average mark achieved according to the following scale:

- CLASS I: 85 - 100% of merit points
- CLASS II Division 1: 75 - 84% of merit points
- CLASS II Division 2: 65 - 74% of merit points

Students who enter the Honours program and fail to achieve the appropriate level of merit points may be eligible for a Bachelor of Education Pass degree.

Bachelor of Education (Physical & Health Education) - 804

This course is intended to provide a sound academic and professional training for teachers who wish to be employed in the areas of Physical Education, Health Education and Personal Development.

The course normally extends over a minimum period of four years, and offers specialist studies in the physical and behavioural sciences and socio-cultural foundations of human movement and their application to physical education in schools. Extensive studies in health education and personal development are offered in the course. The specialist subjects in the program are complemented by studies in dance, games, gymnastics, aquatics and track and field, together with fieldwork and practice teaching experience.

The course requires the aggregation of at least 192 credit points with 48 credit points normally being undertaken in each year of full time study.

The course contains core subjects, the study of which is mandatory, and elective subjects which allow an element of choice for the student.

The general pattern of subjects is displayed below.
It should be noted that:

1. In each of the four years a period of mandatory practical teaching experience in schools is required.
2. Attendance is mandatory at tutorials, laboratory classes and excursions unless given specific exemption by the Program Director.

<table>
<thead>
<tr>
<th>Year 1 - Autumn Session</th>
<th>EDUF111  Education I</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUP123  Movement Concepts and Practices</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP131  Systemic Anatomy</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP153  Foundations of Personal Development, Health and Physical Education</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 - Spring Session</th>
<th>EDIT102  Information Technology for Learning</th>
<th>6</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>EDUP124  Skill Analysis and Performance I</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP132  Physiology</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP144  Health and Health Behaviour</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 - Autumn Session</th>
<th>EDUP223  Skill Analysis and Performance II</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUP235  Biomechanics for Educators</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP243  Exploring Emotional Well-being</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP255  Teaching Physical Education</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 - Spring Session</th>
<th>EDUP224  Skill Analysis and Performance III</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUP234  Exercise Physiology</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP246  Risktaking and Young People</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP256  Teaching Health Education</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 - Autumn Session</th>
<th>EDUP323  Advanced Skill Analysis I</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUP333  Motor Learning</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP355  Curriculum Perspectives and Issues in Personal Development, Health and Physical Education</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP391  Research and Evaluation in Physical and Health Education</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 - Spring Session</th>
<th>EDUP324  Advanced Skill Analysis II</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUP346  Sexuality, Identity and Relationships</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP392  Social and Cultural Perspectives of Physical Activity and Physical Education</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus any 6cp elective subject chosen from either the list of electives for the Bachelor of Education (Physical and Health Education), or any Education KLA or Discipline elective or a subject chosen from those on offer in any other Faculty in which the student's enrolment is accepted.

<table>
<thead>
<tr>
<th>Year 4 - Autumn Session</th>
<th>EDUP453  Professional Studies in Personal Development, Health and Physical Education</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUP435  First Aid and Sports Medicine</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP491  Theory and Application of Special Education in Physical and Health Education</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus any 6cp elective subject chosen from the list of electives for the Bachelor of Education (Physical and Health Education), or any Education KLA or Discipline elective or a subject chosen from those on offer in any other Faculty in which the student's enrolment is accepted.

<table>
<thead>
<tr>
<th>Year 4 - Spring Session</th>
<th>EDUP446  Contemporary Health Issues</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUP454  Physical and Health Education Extended Practicum</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDUP492  Leadership and Management in Physical and Health Education</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus any 6cp elective subject chosen from the list of electives for the Bachelor of Education (Physical and Health Education), or any Education KLA or Discipline elective or a subject chosen from those on offer in any other Faculty in which the student's enrolment is accepted.

| Year 4 Honours - Autumn & Spring Session | EDUP430  Project in Physical and Health Education | 12 |
## Electives for Bachelor of Education (Physical & Health Education)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUP311</td>
<td>Principles and Practices of Coaching</td>
<td>6</td>
</tr>
<tr>
<td>EDUP312</td>
<td>Coaching Practicum</td>
<td>6</td>
</tr>
<tr>
<td>EDUP313</td>
<td>Advanced Coaching and Administration (Not on offer in 2002)</td>
<td>6</td>
</tr>
<tr>
<td>EDUP361</td>
<td>Progress and Issues in Health and Health Promotion (Not on offer in 2002)</td>
<td>6</td>
</tr>
<tr>
<td>EDUP362</td>
<td>Issues in Drug Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUP363</td>
<td>Stress Management</td>
<td>6</td>
</tr>
<tr>
<td>EDUP381</td>
<td>Outdoor Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUP382</td>
<td>Leadership and Management Skills in Outdoor Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUP368</td>
<td>Fitness Assessment and Exercise Prescription for Children</td>
<td>6</td>
</tr>
<tr>
<td>EDUP367</td>
<td>Sport Studies II</td>
<td>6</td>
</tr>
<tr>
<td>EDUP366</td>
<td>Independent Project in Physical and Health Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUP447</td>
<td>Sport Studies I</td>
<td>6</td>
</tr>
</tbody>
</table>

### Bachelor of Education (Physical & Health Education) with Honours - 872

The grade of Honours is determined by the weighted average of the merit points achieved at the first attempt in all 200, 300 and 400-level subjects using the formula:

\[
\text{weighted average mark} = \frac{\sum \text{merit points} \cdot \text{credit hours}}{\sum \text{credit hours}}
\]

(see regulations listed in the Course Rules)

In calculating the above average, the final year thesis shall have a weight of 4. The Class of Honours will be based upon the weighted average mark achieved according to the following scale:

- **CLASS I**: 75.5 - 100% of merit points
- **CLASS II Division 1**: 72.5 - 74.4% of merit points
- **CLASS II Division 2**: 67.5 - 72.4% of merit points

The pattern of progression for the Honours degree conforms to the normal pattern of progression for the Pass degree except that in the Honours degree, EDUP366 replaces an elective in the third year of the course and EDUP430 replaces two electives in the fourth year.

Students who enter the Honours program and fail to achieve the appropriate level of merit points may be eligible for a Bachelor of Education Pass degree

### Bachelor of Arts (Education) - 702

For students undertaking a Bachelor of Arts degree with a major study in Education, a list of available subjects appears in the Faculty of Arts section. It should be noted that a Bachelor of Arts (Education) is not a recognised teacher training credential, although some study in Education is recommended for students interested in a career in any instructional or communication oriented field.
EDIT102 Information Technology For Learning 6cp
Spring Wollongong On Campus
Contact Hours: 3hrs/wk
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject focuses on the use of information technology tools for both personal and professional use. In terms of personal use, the subject emphasises the need for students to become familiar with a range of applications packages, such as word processing, drawing, spreadsheet and authoring packages. From the professional perspective students will learn about the use of these applications in educational settings, the role of telecommunications, especially the Internet, and study a range of commercial educational software packages.
Subject Objectives: information unavailable

EDUA111 Creative and Expressive Arts in Early Childhood 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: In this subject emphasis will be given to ways in which the expressive curriculum areas of art, craft, drama and music can be interrelated. Types of teaching and learning processes that will be explored include: aesthetic expression; communication through personal ideas/feelings; and arts appreciation. Cognitive and intellectual concepts through arts activities such as colour, size, rhythm, and melody will be examined.
Subject Objectives: information unavailable

EDUA201 Creative Arts Education 6cp
Autumn Wollongong On Campus
Contact Hours: 3hrs/wk
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This course analyses and interprets the value of the arts and their application to the K-6 classroom setting. Students will: research, compare and interpret music and visual arts in a variety of contexts; identify and prepare appropriate arts education teaching materials; examine possibilities for integrating the arts with other subject areas; and be involved in listening, singing, playing, moving, creating, as well as in the making of art works.
Subject Objectives: information unavailable

EDUA224 Creative Arts KLA Elective I 6cp
Spring Wollongong On Campus
Contact Hours: 3hrs/wk
Pre-requisites: EDUA201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Students will participate in both the art forms of visual arts and music and gain a personal shared meaning and value of aesthetics in the arts. Students will appreciate the role of each art form through making and appraising their own works and the works of others.
Subject Objectives: information unavailable

EDUA331 Creative Arts KLA Elective II 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUA201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: In this subject students focus on the interrelation of dance, drama, music and visual arts. The NSW K-6 Creative Arts syllabus will provide the framework for students to understand where commonalities occur across the arts. Cognisance will be given to the uniqueness and integrity of each art form.
Subject Objectives: information unavailable

EDUA441 Creative Arts Key Learning Area Elective III 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Students will engage in listening, creating and performing music as a means of: developing an understanding of how music can be valued in different ways; investigating and developing an understanding of the elements of music; and applying their understandings to the development of sequenced programs of work for the primary classroom.
Subject Objectives: information unavailable

EDUA442 Creative Arts Key Learning Area Elective IV 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Students will explore the creative arts key learning area from a visual arts perspective. Students will conceptualise the role of the artist, the researcher and the educator. Students will examine, explore and evaluate current visual arts practices and research.

Subject Objectives: information unavailable

EDUC213 Educational Psychology of Typical Children 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF111 plus EDUF212 or 12 cp of related 100 level study
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: A treatment of the growth and behaviour of typical children, emphasising perception, cognition, learning and language. The impact of environmental influences is considered, in educational settings ranging from preschool to university and adult education, and in the context of contemporary and psychological theory. Students are encouraged to become familiar with, and to enquire further into, the main principles of educational psychology.

Subject Objectives: information unavailable

EDUC217 Educational Psychology of Atypical Children & Introductory Educational Measurement 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF111 plus EDUF212 or 12 cp of related 100 level study
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: An introduction to principles and practices of measurement and research in education is offered, with an introduction to a study of atypical children in relation to educational processes. The principles of educational and psychological measurement, test construction and the analysis of test results are included. The characteristics of atypical children are examined. A visit to a special-education location is included.

Subject Objectives: information unavailable

EDUC231 Culture, Immigration & Education 8cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject will examine the impact of immigration on the family and education system in Australia since the end of the 19th century. Changing social expectations, values and practices of the family and education system will be examined. The central role of language in the construction of individual, cultural and national identities, and multicultural policy will be explored.

Subject Objectives: information unavailable

EDUC232 Gender and Social Justice 8cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject will examine theoretical, policy and praxis issues with relation to social justice in education, with a particular focus on gender and education. Using interdisciplinary approaches, it will critically analyse the nature of inequality, power relations in Australian society and the role of educational institutions in addressing issues of equality. The intersections between class, race and gender will be addressed. The implications of gender relations in society for educational institutions will be examined.

Subject Objectives: information unavailable

EDUC323 Curriculum and Program Evaluation 8cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: The subject will develop an understanding of the principles of curriculum and program evaluation. Emphasis will be on a range of evaluation models and the application of evaluation procedures in a variety of business, formal and non-formal education and training contexts. The process of implementing an evaluation will be a central feature of the subject.

Subject Objectives: information unavailable

EDUE301 Issues in Aboriginal Education 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with ABST361
Assessment: information unavailable

Subject Description: This subject provides students with historical and sociological understandings from Aboriginal perspectives of the significant role formal education has played and continues to play as a site of struggle in the process of colonisation. Topics vary, but may include: the history of Aboriginal education in NSW; racial doctrines; individual and institutional racism; Aboriginal cultures, identities and education, various 'models' of Aboriginal education; current policies and issues; self-determination and education.

Subject Objectives: information unavailable

EDUE302 Aboriginal Pedagogy 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with ABST362
Assessment: information unavailable

Subject Description: This subject canvasses a range of related issues which will help equip students with skills and knowledge related to: designing programs and teaching Aboriginal children, youth and adults in culturally-appropriate ways; and designing programs and teaching all people about Aboriginal Studies. Topics will vary, but may include: differences between Aboriginal education, Aboriginal studies, cultural studies, and anti-racist education; 'Western' and Aboriginal approaches to knowledge, teaching and learning styles, communication styles, and discipline methods; and methods for consulting with Aboriginal communities.

Subject Objectives: information unavailable

EDUE303 Teaching Language and Literacy Through Literature in Early Childhood 6cp

Autumn Wollongong On Campus
Contact Hours: 3 Hours.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject focuses on the theory and practice of using a literature based approach in teaching in the early childhood years (preschool-year 2). The role of literature in developing children's language, literacy and critical thinking will be the primary emphasis. Children's literature discussed will include traditional literature (folktales, fables, myths and legends), picture books, big books, poetry, factual texts, realistic fiction and fantasy. A range of appropriate learning contexts, such as group discussions, drama and writing workshops will be used to model relevant classroom strategies.

Subject Objectives: information unavailable

EDUE304 Teaching Language Through Literature in the Primary and Middle Years 6cp

Spring Wollongong On Campus
Contact Hours: 3 Hours.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject focuses on literature suitable for the needs, interests and abilities of middle to upper primary children. A range of literature including poetry, drama (scripted and television), short stories, realistic fiction, fantasy, and non-fiction (information texts, reference books, autobiography, biography) will be treated. A central issue will be 'critical literacy', which includes investigation of social and gender issues in reading and responding to literature, racial and gender biases and stereotyping.

Subject Objectives: information unavailable

EDUE305 Design and Assessment of Learning Experiences for Adults 6cp

Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject focuses on the essential processes in the design of effective learning programs for adults. It is concerned with assessing needs, setting objectives, establishing the scope and sequence of proposed programs, deciding on resources, planning how to assess learner performance and designing an evaluation strategy. Students will be expected to prepare a design statement which addresses a stated problem and reflects their understanding of the instructional design process.

Subject Objectives: information unavailable

EDUE306 Learning Strategies and Communication in Adult Education 6cp

Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject introduces students to a range of learning strategies appropriate to adult learners. It is based on a consideration of a basic model of interpersonal communication which will provide one criterion for the evaluation of the strategies. These will be modelled, described and examined throughout the subject so that students may experience and analyse them in order to make informed choices for their own applications.

Subject Objectives: information unavailable

EDUE307 Physical Education: Coaching and Sport Administration 6cp

Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject analyses the general principles of coaching and sport administration. In coaching topics include coaching roles, psychological and physical factors, programming for all coaching environments and practical sessions. Students also undertake practical work and have the opportunity to complete the Australian Coaching Council Level 1 General Principles. In Sport Administration they have the opportunity to complete the Australian Society of Sport Administrators Level 1. topics include strategic planning, operations management, financial aspects, legal issues, effective meetings and marketing and promotion.

Subject Objectives: information unavailable

EDUE308 PDHPE: Health Promotion 6cp

Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject will examine the concept of health promotion, and will afford students the opportunity to specialise in a specific aspect of health promotion e.g. physical activity or community health. The latest research will be
examined to reinforce the notion of health promotion in the community. There will be an emphasis in this subject on students acquiring skills in program development and implementation.

**Subject Objectives:** Information unavailable

**EDUE313 Interactive Multimedia by Design 6cp**

Autumn: Wollongong, On Campus

**Contact Hours:** Information unavailable.

**Pre-requisites:** EDIT102 or CSCI101 or CSCI102 or IACT101 or permission of Subject Coordinator

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Information unavailable

**Subject Description:** The subject reviews the basic principles of interactive multimedia design and develops a prototype interactive multimedia project using authoring tools. This will entail developing awareness and skills in visual thinking and communicating, an understanding of learning theory, and relevant cognitive and software tools. Issues of project management, rapid prototyping and a critical examination of design, implementation and evaluation will be addressed. Issues of resource management and product maintenance will also be considered.

**Subject Objectives:** Information unavailable

**EDUE314 Interactivity and the WEB (Designing Hypertext Multimedia) 6cp**

Spring: Wollongong, On Campus

**Contact Hours:** Information unavailable.

**Pre-requisites:** EDIT102 or CSCI101 or CSCI102 or IACT101 or permission of Subject Coordinator

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Information unavailable

**Subject Description:** The subject will apply the principles of instructional design and product development to an interactive web-based environment. The focus will be upon information design for a hypertext environment and the development of informative and interactive Web Site. This will entail a discussion of project development, software tools for interactive and collaborative Web-Based environment development, the process of rapid prototyping and a critical examination of design issues that define effective sites. To undertake the project students will design an information structure and develop an interface and screen design.

**Subject Objectives:** Information unavailable

**EDUE315 Environmental Education - The Natural Environment 6cp**

Autumn: Wollongong, On Campus

**Contact Hours:** Information unavailable.

**Pre-requisites:** None

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Information unavailable

**Subject Description:** This subject focuses on teaching in natural environments with children from local primary schools. Students will visit local field study centres and schools to engage in teaching and research. They will also be involved in seminar presentations of selected global and local environmental problems relevant to primary school children.

**Subject Objectives:** Information unavailable

**EDUE316 Environmental Education - The Built Environment 6cp**

Spring: Wollongong, On Campus

**Contact Hours:** Information unavailable.

**Pre-requisites:** None

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Information unavailable

**Subject Description:** This subject focuses on teaching in built environments with children from local primary schools. Students will visit urban field study centres and schools to engage in teaching and research. Also students will critically examine local environmental issues that relate to the use of appropriate technology in the built environment.

**Subject Objectives:** Information unavailable

**EDUE317 English Language: Examining Learners' Problems 6cp**

Spring: Wollongong, On Campus

**Autumn:** Wollongong, Distance

**Spring:** Wollongong, Distance

**Contact Hours:** Information unavailable.

**Pre-requisites:** None

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Information unavailable

**Subject Description:** This subject is an introduction to assumptions about the nature of the English language and its relevance to teaching English to speakers of other languages. It will canvass a number of aspects of English grammar and discourse, including differences between spoken and written English, common grammatical problems, teaching vocabulary, and discourse analysis. It will guide students in the diagnosis of learners' problems in the areas of English grammar, vocabulary and pronunciation.

**Subject Objectives:** Information unavailable

**EDUE319 Programming and Methodology in Second Language Teaching 6cp**

Spring: Wollongong, On Campus

**Autumn:** Wollongong, Distance

**Spring:** Wollongong, Distance

**Contact Hours:** Information unavailable.

**Pre-requisites:** None

**Co-requisites:** None

**Restrictions:** None

**Exclusions:** None

**Assessment:** Information unavailable

**Subject Description:** This subject is intended as an introduction to classroom practice in teaching a second language for those with little or no experience in the field. It aims to assist students to develop a teaching program/unit of work appropriate for a specified group of learners. Students will be familiarised with a number of commonly used...
teaching/learning activities in oral communication, reading and writing.

Subject Objectives: information unavailable

EDUE320 Behaviour Management 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with EDUE311
Assessment: information unavailable

Subject Description: This elective examines the prevalence and aetiology of behaviour disorders and their effects on classroom learning and community integration. Practical classroom techniques which have been found to be effective in developing a supportive classroom environment and in increasing academic engaged time will be the focus of the subject. The issues of attention deficit hyperactivity disorder, oppositional behaviour, non-compliance, bullying and developing models of student and collegial support will be addressed.

Subject Objectives: information unavailable

EDUE321 Reading Difficulties 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with EDUE312
Assessment: information unavailable

Subject Description: Both reading acquisition and reading comprehension will be addressed in this subject, with particular reference to those students who do not acquire these essential skills as quickly or as easily as their peers. The assessment of reading skills, including critical phonological skills, and the planning, implementation and evaluation of an appropriate reading program based on those assessment results, will form the basis of the subject.

Subject Objectives: information unavailable

EDUE333 International Teaching Project 6cp
Summer 2002/2003 Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUT111 OR EDUT121
Co-requisites: none
Restrictions: none
Exclusions: Not to count with EDUE311
Assessment: information unavailable

Subject Description: This subject is intended as an introduction to teaching in another country and explores issues such as teaching English as a second language, cross-cultural education, materials development and instruction. The major component of this subject will allow students to live and teach in another country (e.g. Thailand) under the direction and supervision of Faculty of Education staff.

Subject Objectives: information unavailable

EDUE401 Issues in Aboriginal Education 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with EDUE301 and or ABST361
Assessment: information unavailable

Subject Description: This subject provides students with historical and sociological understandings - from Aboriginal perspectives - of the significant role formal education has played and continues to play as a site of struggle in the process of colonisation. Topics vary, but may include: the history of Aboriginal education in NSW; racial doctrines; individual and institutional racism; Aboriginal cultures, identities and education; various 'models' of Aboriginal education; current policies and issues; self-determination and education.

Subject Objectives: information unavailable

EDUE402 Aboriginal Pedagogy 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with EDUE302 and or ABST362
Assessment: information unavailable

Subject Description: This subject canvasses a range of related issues which will help equip students with skills and knowledge related to designing programs and working with Aboriginal children, youth and adults in culturally-appropriate ways. Topics will vary, but may include: differences between Aboriginal education, Aboriginal studies, cultural studies, and anti-racist education; 'Western' and Aboriginal approaches to knowledge, teaching and learning styles, communication styles, and discipline methods; and methods for consulting with Aboriginal communities.

Subject Objectives: information unavailable

EDUE405 Assessing Performance in Adult Training 5cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject is designed to develop in the student the essential knowledge, skills, understandings and attitudes which will ensure sound evaluation of training programs. It is directed towards the establishment and consolidation of logical links between evaluation and instructional design and deals with the assessment of trainee performance and current skill levels. Attention is given to examining the importance of language competency in this assessment process. The formative and summative evaluation of training strategies will then contribute to the development of effective performance outcomes.

Subject Objectives: information unavailable
Subject Descriptions

EDUE406 Theories Of Adult Learning 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: Information unavailable.
Co-requisites: Information unavailable.
Restrictions: Information unavailable.
Exclusions: Information unavailable.
Assessment: Information unavailable.
Subject Description: In this subject students will examine relevant theories of cognition and motivation and consider the contributions of several prominent theorists to the study of adult learning. They will investigate learning styles, the characteristics of adult learners, and processes and conditions that promote adult learning.
Subject Objectives: Information unavailable

EDUE407 Inquiry Project In Physical and Health Education 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: Information unavailable.
Co-requisites: Information unavailable.
Restrictions: Information unavailable.
Exclusions: Information unavailable.
Assessment: Information unavailable.
Subject Description: The student in consultation with a faculty member will be required to identify an appropriate topic for action research in the Physical Education or Health settings. Each student will plan, conduct and report (approximately 6000 words) on the approved project. Staff will liaise regularly with student and site staff but will not supervise students on site. Group meetings of students will be arranged as necessary.
Subject Objectives: Information unavailable

EDUE408 Placement In Physical and Health Education 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: Information unavailable.
Co-requisites: Information unavailable.
Restrictions: Information unavailable.
Exclusions: Information unavailable.
Assessment: Information unavailable.
Subject Description: Students will work in either an applied Physical or Health Education setting. Two hours a week will be spent in the field with one hour a week spent in class. Students will be required to prepare an in-depth workbook of their practical experience and will also give an in-depth presentation to the rest of the class.
Subject Objectives: Information unavailable

EDUE411 Disability Issues Across the Lifespan 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: Information unavailable.
Co-requisites: Information unavailable.
Restrictions: Information unavailable.
Exclusions: Information unavailable.
Assessment: Information unavailable.
Subject Description: This subject will examine issues which face individuals with moderate to severe disabilities throughout their lives. It will address the Disability Services Act and Service Standards; personal care; family impact; community access and support; accommodation options; vocational and recreational opportunities; sexuality; legal and ethical issues; augmentative communication; aging and advocacy.
Subject Objectives: Information unavailable

EDUE412 Programming for Individuals with Moderate to Severe Disabilities 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: Information unavailable.
Co-requisites: Information unavailable.
Restrictions: Information unavailable.
Exclusions: Information unavailable.
Assessment: Information unavailable.
Subject Description: This subject will address needs assessment and the design, implementation and evaluation of programs for individuals with moderate to severe intellectual disabilities as a result of Down Syndrome, Autism, neural tube defects, traumatic brain injury, severe cerebral palsy, and other developmental disabilities. The development of communication and social skills, independent living skills and intellectual growth will be addressed within the context of promoting individual rights and enhancing opportunities for participation in society.
Subject Objectives: Information unavailable

EDUE413 Managing Multimedia Resources 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: Information unavailable.
Co-requisites: Information unavailable.
Restrictions: Information unavailable.
Exclusions: Information unavailable.
Assessment: Information unavailable.
Subject Description: This subject focuses on skill development to manage multimedia resources. It begins with the development of an information management system to monitor and store project resources. This evolves into resource production and ongoing team communication via the web and chat spaces. The collection of resources requires careful organisation prior to its storage on CD. Students are required to keep a process journal to enable reflection and analysis of the information management cycle they have experienced.
Subject Objectives: Information unavailable

EDUE414 Cognition, Interface and Interactivity 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: Information unavailable.
Co-requisites: Information unavailable.
Restrictions: Information unavailable.
Exclusions: Information unavailable.
Assessment: Information unavailable.
Subject Description: This subject explores the relationship between interactive multimedia and the meanings that it can create. It will include a discussion of the psychology of interactive design, the role of non-linear narrative and navigation options. It will explore several strategies of interaction. In particular it will examine popular genres within interactive multimedia such as games and simulations and how the interface conventions are established and learned.
Subject Objectives: Information unavailable
EDUE415 School and Community Based Sustainable Development Practices 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject introduces students to theories of play - how play develops and changes; its contribution to children's development; play as an approach to learning; play and children's texts; and sociocultural variations. Ways of observing, documenting, interpreting, planning, implementing and assessing children's play will also be developed. The subject will be presented through lectures, seminars, and self-directed study in groups.
Subject Objectives: Information unavailable

EDUF106 Child Development and Care I 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject follows on from EDUF111. The focus is on child development theories, principles, research and observational methods and how they relate to the study, education and care of young children from 0-8 years.
Subject Objectives: Information unavailable

EDUF111 Education I 6cp
Autumn Wollongong On Campus
Summer 2002/2003 Wollongong Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject involves a study of physical, social, emotional, moral and cognitive aspects of children from a developmental perspective. It will deal with the following topics: issues and theories in child development; the physical development of children and adolescents; contrasting theories of cognitive development; theories of language development; the nature of intelligence and its relation to achievement; social contexts for development; moral and emotional development; and gender-role development.
Subject Objectives: Information unavailable

EDUF201 Early Childhood Learning Environment II 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF104
Co-requisites: EDUF101
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject will enable students to study the relationship of theory and practice in terms of the basic principles of program planning and implementation of an early childhood education program for young children and their families. Students will participate in micro teaching experiences as well as teaching practice in an early childhood centre under the supervision of a trained teacher.
Subject Objectives: Information unavailable
Subject Descriptions

EDUF204  Learners With Exceptional Needs  6cp
Spring  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF111 OR EDUF101
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will cover the prevalence of children with special educational needs, the concept of normalisation and the current educational policies of mainstreaming, integration and inclusion. It will develop an understanding of the needs of exceptional learners and basic skills in the individualisation of instruction in relation to students with learning difficulties in the regular classroom.
Subject Objectives: information unavailable

EDUF212  Education II  6cp
Spring  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject identifies and examines the major theories, perspectives and methodologies which support a critical awareness and understanding of issues of consequence in education in society. The role of education in gender, class and race relations is considered and students explore contemporary issues such as: inclusion of the differently abled student; violence in schools and families; changing perceptions of sexualities; and the use and critique of technology and mass media.
Subject Objectives: information unavailable

EDUF232  Early Intervention and Children with Special Needs  6cp
Spring  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject examines various factors which put the young child at risk of developmental delays or disabilities, and develops management, care and teaching strategies which are appropriate for young children with special needs. The roles of parents, associated professionals and paraprofessionals in the education of young children with special needs are also addressed.
Subject Objectives: information unavailable

EDUF252  Child Development and Care II  6cp
Spring  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF106
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject extends the knowledge and skills gained in previous developmental studies by examining particular contexts and situations in early childhood education. These include: child abuse and neglect, health and safety management, evaluation of policies and practices, evaluation of government regulations, working with families; and current issues. Students will apply child development theories and principles to evaluation and critical analysis of a variety of specified situations and contexts and engage in reflective thinking.
Subject Objectives: information unavailable

EDUF303  Early Childhood Learning Environment III  6cp
Autumn  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will focus on the physical, social, emotional & intellectual learning environments in early childhood settings. Students will examine the role of the early childhood teacher and take into account the diverse nature of the population and the importance of parent teacher relationships.
Subject Objectives: information unavailable

EDUF304  Early Childhood Curriculum  12cp
Spring  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: The compulsory core of this subject examines different ways of conceptualising curriculum, and processes and approaches involved in curriculum planning in various early childhood settings. Students will be able to choose a specialisation within this subject, focusing on 0-3s, 3-5s or 5-8s. In this specialisation, students will be involved in collaborative inquiry into relevant curriculum policies and practices, and apply the findings of this inquiry to designing programs.
Subject Objectives: information unavailable

EDUF311  Education III  6cp
Autumn  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUF111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is designed to provide students with an understanding of current research related to the major theories of cognitive development and the impact of these theories on contemporary teaching practice. The topics treated will include: information processing theories of cognitive functioning; metacognition and learning; Piaget and the neo-Piagetians; Vygotskian theory; theories of intelligence and...
creativity; psychological perspectives on motivation; and, cognitive development as a social and cultural process.

**Subject Objectives:** information unavailable

**EDUF313 Historical and Philosophical Perspectives of Early Childhood** 6cp
- **Autumn:** Wollongong On Campus
- **Contact Hours:** Information unavailable
- **Pre-requisites:** EDUF212
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** information unavailable

**Subject Description:** This subject will critically examine the importance of early childhood education, perspectives on childhood in different historical contexts, the roles of children and families in learning and schooling, and childrearing practices in different historical and societal contexts. The impact of historical changes and philosophical shifts upon the world of the child and upon the development of early childhood services and programs will be considered.

**Subject Objectives:** information unavailable

**EDUF353 Management of Early Childhood Services** 6cp
- **Autumn:** Wollongong On Campus
- **Contact Hours:** Information unavailable
- **Pre-requisites:** none
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** information unavailable

**Subject Description:** This subject will prepare early childhood educators to fulfil the roles of organizational communicator, leader, team worker, (action) researcher, and supervisor of staff. Topics—as they relate to early childhood professionals—such as industrial issues, human resources management, change management, effective communication, legal responsibilities, use of technology in services management, personal career management, and contextual issues will be covered. The delivery strategy of self directed teamwork will provide practical experience in group dynamics, conflict resolution, team building and leadership.

**Subject Objectives:** information unavailable

**EDUF421 Leadership and International Perspectives in Education** 6cp
- **Spring:** Wollongong On Campus
- **Autumn:** Wollongong On Campus
- **Contact Hours:** 3 hours.
- **Pre-requisites:** none
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** information unavailable

**Subject Description:** This subject examines early language development, including emergent literacy, reading contexts at home and school, the shift from oral to written modes, early writing, early reading, spelling and phonology. Students will become familiar with a range of teaching/learning activities designed to cater for the language and literacy needs of a variety of learners, including those of non-English speaking background and those with literacy difficulties.

**Subject Objectives:** information unavailable

**EDUK101 Problem Based Learning in Education** 6cp
- **Autumn:** Wollongong Flexible
- **Contact Hours:** Information unavailable.
- **Pre-requisites:** none
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** information unavailable

**Subject Description:** information unavailable

**Subject Objectives:** information unavailable

**EDUL101 Language and Literacy Education I** 6cp
- **Autumn:** Wollongong On Campus
- **Contact Hours:** 3 hours.
- **Pre-requisites:** none
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** information unavailable

**Subject Description:** This subject examines theoretical foundations and develops practical strategies for the teaching of reading. It examines the relationships between reading, writing and oral language development and explores the knowledge and strategies readers use to make meaning from both literary and factual texts. Students will become familiar with the developmental patterns of emergent, beginning and fluent readers and the respective teaching and assessment strategies.

**Subject Objectives:** information unavailable

**EDUL202 Language and Literacy Education II** 6cp
- **Spring:** Wollongong On Campus
- **Contact Hours:** 3 hours.
- **Pre-requisites:** EDUL101 - Language & Literacy Education I
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** information unavailable

**Subject Description:** This subject examines theoretical foundations and develops practical strategies for the teaching of writing. It examines the relationship between reading, writing and oral language development and explores the knowledge and strategies writers use to compose the range of literary and factual texts. Students will become familiar with the developmental patterns of emergent, beginning and fluent writers and the respective teaching and assessment strategies.

**Subject Objectives:** information unavailable

**EDUL224 Language Education KLA Elective I** 6cp
- **Spring:** Wollongong On Campus
- **Contact Hours:** 3 hours.
- **Pre-requisites:** EDUL101
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** information unavailable

**Subject Description:** This subject will focus in depth on Early Stage 1 & Stage 1 of the English K-6 Syllabus. It will examine the relationship between the outcomes, assessment of literacy learning, the design and implementation of learning activities, and the creation of effective classroom settings. It will examine a range of teaching/learning activities and the use of time.
Subject Descriptions

EDUL240 Materials Technology In Second Language Teaching 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Autumn Wollongong Distance
Spring Wollongong Distance
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject is intended as a practical introduction to the selection, development, adaptation, analysis and evaluation of a range of teaching materials and media in second language teaching. It will examine the nature and role of materials/technologies, including their place in the curriculum, the assumptions underlying them, and the roles of teacher and learners implied by them.
Subject Objectives: Information unavailable

EDUL301 Language and Literacy Studies in Early Childhood 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hours.
Pre-requisites: EDUL101
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject examines language and literacy development in the early childhood years. Topics include: early spoken language development; emergent literacy development; later reading and writing development; the role of picture books in children's lives; and the relationship between development and children's learning environments. Teaching strategies for supporting children's talk, reading and writing will be addressed. Students will be involved in conducting independent inquiry in teams into aspects of children's language and literacy development.
Subject Objectives: Information unavailable

EDUL314 Language and Ideology 8cp
Autumn Wollongong On Campus
Contact Hours: 3 hours.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject aims to explore the ways in which the use of language contributes to the social construction of knowledge and social relations. Students will investigate how culture and individual identity is constituted in the production and interpretation of written and spoken texts, including those generated in the media, through conversations, fictional and factual genres and work place interactions. The subject will also investigate critical literacy as it can be put into practice in education settings.
Subject Objectives: Information unavailable

EDUL330 Practicum or Project In Second Language Teaching 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Autumn Wollongong Distance
Spring Wollongong Distance
Contact Hours: Information unavailable.
Pre-requisites: EDUE319
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: The Practicum aims to provide the intending language teacher with practical experience in the classroom in order to develop the knowledge and skills needed to become a specialist EFL/ESL teacher. Alternatively, students may elect to undertake an independent project on a topic of interest in language teaching following consultation with their supervisor.
Subject Objectives: Information unavailable

EDUL331 English Language: Examining Learners' Problems 8cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject is an introduction to assumptions about the nature of the English language and its relevance to teaching English to speakers of other languages. It will canvass a number of aspects of English grammar and discourse, including differences between spoken and written English, common grammatical problems, teaching vocabulary, and discourse analysis. It will guide participants in the diagnosis of learners' problems in the areas of English grammar, vocabulary and pronunciation.
Subject Objectives: Information unavailable

EDUL335 Language Education KLA Elective II 6cp
Contact Hours: 3 hours.
Pre-requisites: EDUL202
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: This subject will focus indepth on Stage 2 & Stage 3 of the English K-6 Syllabus. It will examine the relationship between the outcomes, assessment of literacy learning, the design and implementation of learning activities, and the creation of effective classroom settings. It will examine a range of teaching/learning activities and the use of time, resources, that Year 3-6 teachers use to plan, implement and evaluate their literacy curriculum.
Subject Objectives: Information unavailable
EDUL340 Materials and Technology in Second Language Teaching 8cp
Spring  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is intended as a practical introduction to the selection, development, adaptation, analysis and evaluation of a range of teaching materials and media in second language teaching. It will examine the nature and role of materials/technologies, including their place in the curriculum, the assumptions underlying them, and the roles of teacher and learners implied by them.
Subject Objectives: information unavailable

EDUL350 Programming and Methodology in Second Language Teaching 8cp
Autumn  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is intended as an introduction to classroom practice in teaching a second language for those with little or no experience in the field. It aims to assist students to develop a teaching program/unit of work appropriate for a specified group of learners. Students will be familiarised with a number of commonly used teaching/learning activities in oral communication, reading and writing.
Subject Objectives: information unavailable

EDUL360 Practicum or Project in Language Teaching 8cp
Spring  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: The Practicum aims to provide the intending language teacher with practical experience in the classroom in order to develop the knowledge and skills needed to become a specialist EFL/ESL teacher. Alternatively, students may elect to undertake an independent project on a topic of interest in language teaching following consultation with their supervisor.
Subject Objectives: information unavailable

EDUL441 Language Education Key Learning Area Elective III 6cp
Autumn  Wollongong  On Campus
Contact Hours: 3 hours.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will focus on the world wide movement towards Standards, Profiles and Benchmarks as tools of accountability and identification of student levels of literacy achievement, and for planning future teaching learning experiences in literacy education. The history, development and politics of such tools will be examined. A basic component of study with be the assessment and evaluation theory that students need to understand, including knowledge of quantitative and qualitative methods, in order to make valid judgments of students literacy levels. Finally students will learn how they can use the data gathered to plan future teaching/learning experiences that best respond to the needs of their students.
Subject Objectives: information unavailable

EDUL442 Language Education Key Learning Area Elective IV 6cp
Spring  Wollongong  On Campus
Contact Hours: 3 hours.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will take the form of a school based inquiry project into some aspect of literacy education. Students will be asked to identify a problem worthy of inquiry, develop a needs analysis and proposal; carry out a literature review in the area; carry out action research and data collection and finally write a brief report presenting the findings.
Subject Objectives: information unavailable

EDUM201 Mathematics Education 6cp
Autumn  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with EDUM102
Assessment: information unavailable
Subject Description: This subject focuses on the teaching and learning of K-6 mathematics, based on the NSW K-6 syllabus and the National Statement on Mathematics. The subject requires students to develop a rationale for teaching mathematics, to examine approaches to teaching the content of infants and primary school mathematics, and emphasises the theoretical underpinnings both of the structure and sequence of the curriculum, and of specific teaching and learning strategies.
Subject Objectives: information unavailable

EDUM224 Mathematics Education KLA Elective I 6cp
Spring  Wollongong  On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject focuses on the teaching and learning of K-6 mathematics, based on the NSW K-6 syllabus and the National Statement on Mathematics. The subject requires students to develop a rationale for teaching mathematics, to examine approaches to teaching the content of infants and primary school mathematics, and emphasises the theoretical underpinnings both of the structure and sequence of the curriculum, and of specific teaching and learning strategies.
Subject Objectives: information unavailable
Subjects

**EDUP333 Mathematics Education Elective II** 6cp  
_Autumn_  
_Wollongong On Campus_  

**Contact Hours:** Information unavailable.  
**Pre-requisites:** EDUM 201  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Information unavailable  

**Subject Description:** This subject will focus on the underlying issues which have been given emphasis in the structuring of the Mathematics K-6 syllabus and the National Statement. Areas to be considered will include technology, language, gender, multiculturalism, problem solving, attitudes to mathematics and children with special needs. The subject will extend the work done in EDUM201.  

**Subject Objectives:** Information unavailable

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**EDUM441 Mathematics Education Key Learning Area Elective III** 6cp  
_Spring_  
_Wollongong On Campus_  

**Contact Hours:** Information unavailable.  
**Pre-requisites:** none  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Information unavailable  

**Subject Description:** This subject will apply various means to evaluate the resources available to enhance and enrich the K-6 curriculum. It will investigate computer software, textbook series and mathematics laboratories.  

**Subject Objectives:** Information unavailable

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**EDUP442 Mathematics Education Key Learning Area Elective IV** 6cp  
_Autumn_  
_Wollongong On Campus_  

**Contact Hours:** Information unavailable.  
**Pre-requisites:** none  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Information unavailable  

**Subject Description:** This subject will employ theoretical models of learning in mathematics to evaluate and prepare programs and units of work related to the K-6 mathematics curriculum. The subject will look in particular at the theories of Dienes and Skemp for their validity. Extensive use will be made of the testing facilities available on the Web to support this program.  

**Subject Objectives:** Information unavailable

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**EDUP123 Movement Concepts and Practices** 6cp  
_Autumn_  
_Wollongong On Campus_  

**Contact Hours:** Information unavailable.  
**Pre-requisites:** none  
**Co-requisites:** none  
**Restrictions:** none  

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**EDUP124 Skill Analysis and Performance I** 6cp  
_Spring_  
_Wollongong On Campus_  

**Contact Hours:** Information unavailable.  
**Pre-requisites:** none  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Information unavailable  

**Subject Description:** Movement experiences in this subject will consolidate and extend students' knowledge and understanding of physical activity and the principles underlying movement. These principles will be applied to specialised skills in aquatics, gymnastics and the invasion games of touch football, oztag, and rugby. Students will develop their own level of performance in these specialised areas of physical activity, as well as improving their understanding of teaching strategies which can be utilised when implementing these activities in schools.  

**Subject Objectives:** Information unavailable

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**EDUP131 Systemic Anatomy** 6cp  
_Autumn_  
_Wollongong On Campus_  

**Contact Hours:** 2L, 3P p/w.  
**Pre-requisites:** none  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** BMS101  
**Assessment:** Practical Exam 60%; Theory Exam 40%  

**Subject Description:** This subject provides an introduction to the area of human gross anatomy through the study of each of the major systems of the body. In weekly practical sessions, students are exposed to anatomical structure through examination of both cadaveric specimens, radiographic images, histological slides, audiovisual materials and anatomical models. Major topics include the skeletal, muscular, nervous, cardiovascular, respiratory, digestive and urogenital systems.  

**Subject Objectives:** Students will be able to: Identify gross anatomical structures on both models and human cadaveric material; Understand the anatomical relationship between the systems of the body; Understand the link between structure and function of anatomical structures.

**EDUP132 Physiology I** 6cp  
_Spring_  
_Wollongong On Campus_  

**Contact Hours:** 3L, 3P/T/Comp.  
**Pre-requisites:** none  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** BMS112  
**Assessment:** Theory Exam 65%; Practical Exam 35%
Subject Description: Following an introduction to the cellular, physicochemical and homeostatic principles essential to an understanding of physiology, specific systems will be investigated in detail. These topics will include: nervous, muscular, cardiovascular and respiratory systems; acid-base balance; renal function; digestive processes and energy balance. The lab and computer practicals will exemplify lecture material, tutorials will concentrate on graphic analysis, data handling and simple statistical analysis.

Subject Objectives: information unavailable

EDUP144 Health and Health Behaviour 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is the first in a series of subjects which examine major issues from a socio-cultural and individual perspective. In this subject models of health behaviour will be critically examined in relation to the major lifestyle factors in the disease process. The nature of disease and the major risk factors will be addressed. The subject culminates with an exploration of nutrition as a dimension of health.

Subject Objectives: information unavailable

EDUP153 Foundations of Personal Development, Health & Physical Education 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Students will examine the theoretical foundations and rationale for the inclusion of Personal Development, Health and Physical Education within both the primary and secondary curriculum. The basic principles of teaching related to communication, lesson planning, classroom management and reflection will be discussed and practised in outdoor and indoor micro teaching contexts as preparation for the first practicum component of 10 days, which will take place in the primary school setting.

Subject Objectives: information unavailable

EDUP201 Personal Development, Health and Physical Education 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will introduce students to the Key Learning Area: Personal Development, Health and Physical Education. This KLA has an important role to play in the health promotion of young people. Students will examine basic movement skills, body awareness and communication through physical activity. Personal Development and Health will deal with aspects of growth and development, interpersonal relationships, healthy decision making, safe practices and the Health Promoting School.

Subject Objectives: information unavailable

EDUP223 Skill Analysis and Performance II 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUP123
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Students will further their knowledge and understanding of the principles and practices involved in the development of specialised skills in social dance, the invasion games of hockey and soccer, and gymnastics. Students will further their own skill level in each content area covered, as well as examine the considerations for teaching these activities in schools. Through participation in a variety of practical and theoretical experiences students will develop their ability to utilise a variety of teaching strategies when implementing Physical Education lessons in these content areas.

Subject Objectives: information unavailable

EDUP224 Skill Analysis and Performance III 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUP123
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: In this subject students will continue to increase their knowledge and understanding of content areas taught in the Physical Education component of the PDHPE Syllabus. Students will experience the invasion games of netball and basketball, group exercise activities such as aerobics and aquarobics, orienteering and track and field. The knowledge gained through a variety of theory and practical subjects, students will further their ability to plan and implement appropriate Physical Education lessons. Students will focus on continuing to improve their own personal performance and as well as the selection of strategies to meet the special needs of individuals, create active participation, and to challenge and extend each student's capabilities in Physical Education.

Subject Objectives: information unavailable

EDUP226 Personal Development, Health and Physical Education KLA Elective I 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUP201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will enable students to further develop the knowledge, understandings and pedagogical skills introduced in EDUP201 Personal Development, Health and Physical Education. The major focus of the subject will investigate factors which impact upon the individual in relation to their physical activity levels and health.
Subject Objectives: information unavailable

EDUP234 Exercise Physiology 6cp
Spring Wollongong On Campus
Contact Hours: 2L, 3P, 1T.
Pre-requisites: EDUP132
Co-requisites: none
Restrictions: none
Exclusions: BMS242
Assessment: Lab Manual 15%; Group Assignment 35%; Final Exam 50%
Subject Description: This subject extends the study of human structure and function into the work and exercise domains. Areas to be studied include energy liberation and metabolism, applied muscle physiology and applied cardiorespiratory physiology.
Subject Objectives: information unavailable

EDUP235 Biomechanics For Educators 6cp
Autumn Wollongong On Campus
Contact Hours: 5 p/w.
Pre-requisites: EDUP131 or BMS101
Co-requisites: none
Restrictions: none
Exclusions: BMS211
Assessment: Quizzes 50%; Final Examination 50%
Subject Description: This subject introduces fundamental biomechanical principles to provide a basis for understanding the causes and effects of human motion. The subject is an extension of the basic principles of human structure and function studied in Systemic Anatomy and will include: (i) introduction to analysis of movement; (ii) basic biomechanical principles of motion; and (iii) subjective analysis of movement.
Subject Objectives: By the end of this subject the students will be able to: (i) describe and explain basic biomechanical principles of motion; (ii) demonstrate an understanding of subjective methods for analysing human motion.

EDUP243 Exploring Emotional Well Being 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will explore the psychosocial dimension of our health and the impact it has on our total well-being. In identifying the criteria for good mental and emotional health, this subject will discuss self-esteem and self-concept, stress and stress management, communication, and interpersonal relationships. Interpersonal communication skills are integral to the formation of social relationships, to helping others in need and for dealing with conflict. The course will investigate the importance of effective communication in developing a positive perspective of self, and positive relationships with others in various settings. As future secondary teachers the promotion of adolescent well-being and in particular adolescent mental health is an important issue, and will therefore be an underlying focus throughout this subject.
Subject Objectives: information unavailable

EDUP246 Risk Taking and Young People 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with EDUP344
Assessment: information unavailable
Subject Description: This subject will focus on risk taking behaviour, in the context of young people’s lives and culture, with specific reference to drug taking, suicide, and accidents. Current trends in prevention, intervention, postvention, and harm minimisation, will be dealt with. At the conclusion of this subject, students should have acquired a sound knowledge base, which will enable critical examination of the underlying psycho-social factors associated with drug use, suicide ideation and other risk taking behaviours.
Subject Objectives: information unavailable

EDUP255 Teaching Physical Education 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUP153
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject builds on previous studies of the nature of the learner and the learning environment in Physical Education. Opportunities will be provided for students to explore the variety of teaching/learning strategies available, their advantages and disadvantages, the criteria for their selection and their contribution to classroom communication. Students will be given the opportunity to apply their knowledge by participating in field experiences including a one week practicum in a secondary school during the session.
Subject Objectives: information unavailable

EDUP256 Teaching Health Education 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable.
Pre-requisites: EDUP153
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject investigates teaching and learning in Health Education. Students will initially explore and analyse a variety of health behaviour theories and explore Health Education in secondary schools as a form of health promotion. The understandings which are developed will then be related to a variety of teaching and learning opportunities which exist in Health Education in secondary schools given the diverse nature of schools and learners. Health Education demonstration lessons will enable students to observe and reflect upon the teaching of experienced Health Education teachers. This is followed by one week practicum in a secondary school which will enable students to apply the theories of teaching Health Education to a practical setting.
Subject Objectives: information unavailable
EDUP311 Principles & Practices of Coaching 6cp
Spring Wollongong On Campus
Contact Hours: Spring
Pre-requisites: 24 cr pts at 200-level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject analyses the basic principles and practices of coach education. The emphasis will be placed on an understanding of the Australian Coaching system and pedagogical issues in coach education. Related issues to coaching such as time management and ethical issues will also be studied. Relevant discipline areas such as physiology and sports psychology will also be applied to coaching. On completion of the subject students will have acquired a General Principles of Coaching certification.
Subject Objectives: information unavailable
EDUP312 Coaching Practicum 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: 24 cr pts at 200-level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Students will work with a recognized coach in an applied setting. Students will be required to organize and run practice sessions for a minimum of 30 hours. Two hours per week will be spent in the field with one hour a week spent in lectures analysing the principles of coaching. Students will be required to prepare an in-depth workbook of their practical experience and will also give an in-depth presentation to class members.
Subject Objectives: information unavailable
EDUP313 Advanced Coaching & Administration 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: EDUP311 OR EDUP312
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject provides the opportunity for students to advance their knowledge in the theoretical aspects of coaching and sport administration. In coaching the disciplines will be applied to the sports coaching environment. Students will also be required to undertake a General Principles (Level 2) coaching qualification. The Sports Administration components related to coaching will also be studied: strategic plans, development, sponsorship etc. Applications of theory will also be studied over the duration of the subject.
Subject Objectives: information unavailable
EDUP323 Advanced Skill Analysis I 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUP123
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: The students practical experience in racquet games, games such as cricket, softball and baseball, aquatics (AUSTSWIM); and modern and contemporary dance will be further developed with continuing emphasis on teaching strategies, processes, planning and evaluation.
Subject Objectives: information unavailable
EDUP324 Advanced Skill Analysis II 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUP123
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject expands knowledge and skills in the Key Learning Area of Personal Development, Health and Physical Education. The concept of the health promoting school will be analysed, particularly as it relates to the school/community interface. Content and understandings will be examined from a strong pedagogical base, and students will develop appropriate teaching strategies and approaches which can be applied to both the school and community settings.
Subject Objectives: information unavailable
EDUP333 Motor Learning 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is designed to develop an understanding of concepts related to skill acquisition and the psychology of sport. Through a variety of practical laboratories, seminars, workshops and lectures, students will be able to identify basic models of information processing, memory and attention; identify stages of learning and appropriate methods of instruction and use practice variables, feedback, transfer, psychological techniques programmed instruction and mechanical aids to enhance the teaching of motor skills.
Subject Objectives: information unavailable
EDUP335 Personal Development Health and Physical Education KLA Elective II 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUP201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will expand knowledge and skills in the Key Learning Area of Personal Development, Health and Physical Education. The concept of the health promoting school will be analysed, particularly as it relates to the school/community interface. Content and understandings will be examined from a strong pedagogical base, and students will develop appropriate teaching strategies and approaches which can be applied to both the school and community settings.
Subject Objectives: information unavailable
This subject provides for the examination and development of individual knowledge, skills and attitudes which will facilitate the drug education process. Content will include: drug use trends and issues; behavioural theories of drug use and dependence; perspectives on individual and societal attitudes to drug use; and the development of skills and programs relevant to providing meaningful drug education for young people, particularly in relation to the harm minimisation approach.

**Subject Objectives:** information unavailable

**EDUP363 Stress Management 6cp**

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**Subject Description:** information unavailable

**Subject Objectives:** information unavailable

**EDUP355 Curriculum Perspectives and Issues in Physical & Health Education 6cp**

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**Subject Description:** information unavailable

**Subject Objectives:** information unavailable

**EDUP361 Progress and Issues in Health and Health Promotion 6cp**

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**Subject Description:** information unavailable

**Subject Objectives:** information unavailable

**EDUP362 Issues in Drug Education 6cp**

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**Subject Description:** information unavailable

**Subject Objectives:** information unavailable

**EDUP366 Independent Project in Physical and Health Education 6cp**

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**Subject Description:** information unavailable

**Subject Objectives:** information unavailable

**EDUP367 Sports Studies II 6cp**

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**Subject Description:** information unavailable

**Subject Objectives:** information unavailable
EDUP368 Fitness Assessment and Exercise Prescription 6cp
Spring  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: 24 cr pts at 200-level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is designed to integrate theoretical concepts with practical experiences to reinforce an understanding of the components of fitness and health. This will result in autonomous decision making to enhance a healthy lifestyle. The ability to plan, implement and evaluate exercise programs through understanding the role of nutrition and exercise in stress management and alleviating the degenerative effects of hypokinesia will be developed.
Subject Objectives: information unavailable

EDUP381 Outdoor Education 6cp
Autumn  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: 24 cr pts at 200-level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is designed to introduce students to the pedagogical concepts of outdoor education and recreation. Specific content will examine aims, objectives and examples of outdoor education programs with an emphasis on school based programs. By the conclusion of the subject students will exhibit practical skills such as route planning, navigation, campsite and equipment selection.
Subject Objectives: information unavailable

EDUP382 Leadership and Management Skills in Outdoor Education 6cp
Spring  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: EDUP381
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is designed to introduce students to leadership, administration and managerial aspects involved in outdoor education and recreation. Specific content will examine various styles of leadership in outdoor education programs in a variety of educational contexts. Practical skills such as setting up abseiling and rock climbing systems and preparing for, and conducting, major expeditions are used as a vehicle to integrate theory and practice.
Subject Objectives: information unavailable

EDUP391 Research and Evaluation in Physical and Health Education 6cp
Autumn  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: 24 cr pts at 200-level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will provide students with a introduction to the different approaches used in research and evaluation in physical education and related fields. For each of these approaches the following aspects will be examined: underlying assumptions; planning the research or evaluation; collecting, analysing, interpreting data and reporting findings; ethical issues involved in the research or evaluation process. Students will also be introduced to the use of statistics in research and evaluation.
Subject Objectives: information unavailable

EDUP392 Social and Cultural Perspectives in Physical Activity and Phys Ed 6cp
Spring  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: 24 cr pts at 200-level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject examines physical education as a curriculum area which has changed over time in relation to different political and social circumstances. It provides students with the opportunity to investigate how physical education is influenced by and influences Australian culture. Specific topics to be investigated in the context of sport and the teaching of physical education include: ethnicity, youth culture, gender, the body and the commodification of physical activity.
Subject Objectives: information unavailable

EDUP430 Project in Physical and Health Education 12cp
Annual  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: A report or major essay is required to satisfy the requirements for this subject. The topic is to be approved by the subject coordinator. The final project may take the form of: (a) a report of original work performed by the student; (b) a theoretical investigation of a research related problem; (c) a multimedia presentation of a physical or health education topic.
Subject Objectives: information unavailable

EDUP435 First Aid and Sports Medicine 6cp
Autumn  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is designed to give students the knowledge and skills to prevent, assess, and treat injuries; and prepare them to teach first aid in the 2 Unit PDHPE Preliminary Core, sports medicine in the 2 Unit PDHPE HSC Course, and first aid/injury prevention components in the K-6 and 7-10 PDHPE syllabi. Students have the option in this
Subject Objectives: information unavailable

EDUP441 PDH&PE Key Learning Area Elective III 6cp

Autumn Wollongong On Campus
Spring Wollongong On Campus

Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject looks at advanced programming and planning in Physical Education and the contribution of PE to the overall development of children. Issues such as legal aspects and administrative procedures related to primary school physical events such as carnival organisation will be covered. The game centred approach is analysed in great depth from both a theoretical and practical perspective. Students will also participate in practical in school sessions.

Subject Objectives: information unavailable

EDUP444 PDH&PE Key Learning Area Elective IV 6cp

Spring Wollongong On Campus
Autumn Wollongong On Campus

Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: The basis of this subject is an investigation of the health promoting schools concept. Specific content will vary according to the needs/interests of the group, but will include some of the following: programming for PD/Health; "healthy school" projects; children with special health needs - asthma, diabetes, epilepsy, cancer; dealing with crises in classrooms e.g. protective behaviours, conflict resolution, assertiveness, bullying, violence; issues in sexuality; grief and loss; death education.

Subject Objectives: information unavailable

EDUP446 Contemporary Health Issues 6cp

Spring Wollongong On Campus

Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: In recent years it has become increasingly difficult to deal with health problems inherent in the community, many of which are the result of the complex interaction between psychosocial, sociological, political and environmental factors. This subject will examine important community health issues, including consumer and environmental health and identify specific agencies (including the health promoting school), which assist the community to achieve and sustain a supportive environment for health.

Subject Objectives: information unavailable

EDUP447 Sports Studies I 6cp

Autumn Wollongong On Campus

Contact Hours: information unavailable
Pre-requisites: 24cp at 200 level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject provides the opportunity for students to select 2 of 4 sports areas: Skin and Scuba Diving (recreational); Advanced composition, choreography and performance in dance, gym: aerobics: aquarobics: Accreditation or Certification e.g. NCAS I, II or III or an Instructors or Examiners e.g. fitness Outdoor Education by contract with a supervisor. On successful completion of the subject students will be able to demonstrate a variety of skills in selected sports areas, apply appropriate teaching techniques, provide leadership and develop an understanding of the physical and recreational benefits and safety precautions of the fragile underwater environment.

Subject Objectives: information unavailable

EDUP453 Professional Studies in PDH&PE 6cp

Autumn Wollongong On Campus

Contact Hours: information unavailable
Pre-requisites: EDUP355
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject will conclude studies in the curriculum and pedagogy strand by focusing on the professional preparation of final year student teachers in PDHPE. Students will engage in critically analysing, investigating and reflecting as a means of: developing an understanding of the policies and structures for PDHPE in secondary schools, with a focus on programming and assessment; investigating and experimenting with advanced and innovative teaching strategies in PDHPE, including technology and critiquing selected philosophies in education and Physical and Health Education with a view toward formulating a personal teaching philosophy.

Subject Objectives: information unavailable

EDUP454 Physical and Health Education Extended Practicum 6cp

Spring Wollongong On Campus

Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This final teaching practice is designed to provide an extended teaching experience which approximates the work of a full time secondary Health and Physical Education teacher. The extended period of practice enables the student to bring together teaching and curriculum development skills, with students taking responsibility for programming, implementing and evaluating appropriate sequences of learning experiences for children based on their developmental needs and learning styles.

Subject Objectives: information unavailable
Subject Description: This subject is concerned with developing an understanding of the nature and importance of an integrated humanities program within the primary school curriculum. It focuses on the Australian content for this KLA and on raising awareness of appropriate methodologies and choices of content for each year level. HSIE is a key KLA for the examination of attitudes and values and this informs the work undertaken in this subject.

Subject Objectives: information unavailable

EDUS122 Science and Mathematics in Early Childhood I 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject will analyse the contribution that Physical and Health Education can make to responding to students with a wide range of learning needs. On completion of the subject students will have developed basic skills in the individualisation of instruction, analysed and evaluated theoretical issues underpinning the education of learners with exceptional needs and critically evaluated current trends in relation to the policies of inclusion and integration in schools and the community.

Subject Objectives: information unavailable

EDUP491 Theory and Application of Special Ed in P&HE 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject will focus on the discipline areas of education with emphasis on the content of the Science and Technology K - 6 syllabus. At all times the link between science and technology will be stressed. Students will study the implications of recent research into children's understanding of scientific concepts to the teaching of science. Topics include: living things; natural phenomena; the earth and its...
Subject Objectives: information unavailable

EDUS226 Human Society and its Environment KLA Elective I 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUS104
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is concerned with the development of a 'global quilt' of knowledge and understandings relevant to the teaching of HSIE in primary schools. Approaches will be both thematic and by continent. A range of teaching strategies for effective classroom implementation will be studied. Further work on developing lessons and units of work in HSIE will build on the basis established in EDUS104.
Subject Objectives: information unavailable

EDUS333 Science and Technology Education (K-6) Elective II 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUS104
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject examines in detail the investigating processes emphasised in recent primary school science and technology syllabuses. It promotes changes in teacher behaviour required to effectively develop, implement and evaluate instructional programs that employ the processes of investigation.
Subject Objectives: information unavailable

EDUS411 Science and Technology Education KLA Elective III 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will select themes from the syllabus document HSIE K-6 and develop alternative approaches towards scope and sequence development. Innovative and creative methods of presentation of themes for the primary classroom will be stressed. Lesson and unit development will be a part of this. In addition, a theoretical base for curriculum planning in the social sciences will be studied. Above all, this is a practical subject with immediate applicability to the classroom.
Subject Objectives: information unavailable
EDUS444 Human Society and It’s Environment Key Learning Area Elective IV 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: In the course of this subject students will use a problem solving approach to examine critically and develop possible, probable and preferred scenarios on a range of global issues. Topics may include: goals for a better world: alternative futures: ecological analysis of consumerism: population and food supply: women's issues: urbanization: informed citizenship.
Subject Objectives: information unavailable

EDUT111 Curriculum and Pedagogy I 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will assist students to develop an understanding of learning and teaching as an interactive process. Students will be introduced to essential curriculum concepts, classroom management strategies and pupil welfare issues. The subject will guide students in lesson planning and encourage reflective practice. Students will observe a range of demonstration lessons and apply their knowledge and skills in micro teaching. They will also complete ten days of practice teaching.
Subject Objectives: information unavailable

EDUT121 Curriculum and Pedagogy I Early Childhood 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject will assist students to develop an understanding of learning and teaching as an interactive process. Students will be introduced to essential curriculum concepts, classroom management strategies and pupil welfare issues. The subject will guide students in lesson planning and encourage reflective practice. Students will observe a range of demonstration lessons and apply their knowledge and skills in micro teaching. They will also complete fifteen days of practice teaching.
Subject Objectives: information unavailable

EDUT211 Curriculum and Pedagogy II 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUT111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject builds on the skills and knowledge of EDUT111. Topics include: the theory and application of the role of the teacher; principles of curriculum planning; interactive learning and teaching strategies; principles of student assessment; classroom organisation and management. Students will apply these areas of understanding to planning sequences of lessons, to teaching practice, and to communicating effectively in the classroom.
Subject Objectives: information unavailable

EDUT301 Research Methods 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUT211
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject is designed to introduce students to a range of inquiry and evaluation strategies relevant to the development of a reflective teacher. Topics will include: an overview of inquiry paradigms; assumptions underpinning different paradigms; critically reviewing research literature; developing skills in data gathering, representation, analysis and interpretation; ethical issues associated with educational inquiry; and the design, implementation and reporting of an educational inquiry.
Subject Objectives: information unavailable

EDUT302 Curriculum and Pedagogy III 12cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUT211
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Approaches to curriculum design and change and an appreciation of the complexity of the teacher's role in the classroom, school and the community will be developed. A school level inquiry will evaluate an aspect of school curriculum or policy related to across-curricula equity perspectives. For the extended practicum a five week program in all KLS's will be required. As part of this experience students will be expected to display confidence and competence in interpersonal relations and complete and evaluate an effective teaching position for six weeks.
Subject Objectives: information unavailable

EDUT312 Early Childhood Extended Practicum 12cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUF303
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Students will teach in early childhood centres supervised by teacher trained early childhood educators and monitored by visiting academics. Students will be expected to take responsibility for programming, implementing and
Subject Descriptions

evaluating coherent sequences of learning experiences based on the children's developmental learning needs and interests.

Subject Objectives: information unavailable

EDUT403 Research Methods in Education 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUF303
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: This subject extends students' understandings of qualitative and quantitative inquiry paradigms in educational research. This subject is designed, particularly, to support honours students as they conduct their honours thesis. As such, topics covered will extend students' understandings of ethics, and in identifying a research question, writing a literature review, choosing an effective research method, gathering, representing, analysing and interpreting data, and report writing.

Subject Objectives: information unavailable

EDUT422 Reflective Practice 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: In this subject students will study the application of action research as it relates to inquiry in professional settings. This subject develops the knowledge and skills needed to develop and implement an inquiry project in an educational setting.

Subject Objectives: information unavailable

EDUT493 Thesis 24cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUF303
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: The student will be required to complete a thesis, approximately 20,000 words in length, based upon a course of supervised study on a topic chosen by the student and approved by the supervisor.

Subject Objectives: information unavailable

EDUT495 Selected Topics in Early Childhood Education 18cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUF303
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: The student will be required to undertake Advanced Research methods as a component of this subject. The remainder of the subject will deal with advanced theory and currently emerging issues in Early Childhood practice.

Subject Objectives: information unavailable

EDUT496 Honours Thesis in Early Childhood 24cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: EDUF303
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: The student will be required to complete a thesis, approximately 20,000 words based upon a course of supervised study on a topic chosen by the student and approved by the supervisor.

Subject Objectives: information unavailable

EDUZ401 Education Honours 24cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: 24 cp of 300-level Education at credit level or better.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Emphasis within this course is on both quantitative and qualitative approaches to research. The main emphasis in the taught components will be upon the nature of evidence, types of evidence, analysis and integration of evidence. Thesis topics will normally be selected from the areas of: Cognitive studies and learning; Curriculum studies; Language development and curriculum; Measurement and evaluation; Cross-cultural psychology; History of education; Gender studies; Literacy studies; Sociology of Education.

Subject Objectives: information unavailable.
Faculty of Engineering

Member Units

Civil Engineering
Engineering Physics
Environmental Engineering
Materials Engineering
Mechanical Engineering
Mining Engineering

Degrees Offered

Bachelor of Engineering
Bachelor of Medical Radiation Physics
Bachelor of Science (Physics)
Bachelor of Science (Honours) Advanced Program (Physics)
Bachelor of Science (Materials)

Double Degrees
Bachelor of Engineering - Bachelor of Arts
Bachelor of Engineering - Bachelor of Commerce
Bachelor of Engineering - Bachelor of Computer Science
Bachelor of Engineering - Bachelor of Mathematics
Bachelor of Engineering - Bachelor of Science
Bachelor of Engineering - Bachelor of Laws

Refer to the Faculty of Science for the following double degrees:
Bachelor of Arts- Bachelor of Science (Physics)
Bachelor of Creative Arts - Bachelor of Science (Physics)
Bachelor of Commerce - Bachelor of Science (Physics)
Bachelor of Law - Bachelor of Science (Physics)

Refer to the Faculty of Informatics for the following double degree:
Bachelor of Engineering (Electrical)-Bachelor of Science (Physics)

Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/, or contact the relevant Faculty.
Course Structures

Bachelor of Engineering

The normal full time load is 48 credit points per year and, apart from thesis subjects, all subjects have a credit point value of 6. The Bachelor of Engineering normally takes four years to complete, with double majors and double degrees normally taking five years to complete.

The formal contact hours, methods of teaching and learning and forms of assessment vary from subject to subject. Explicit details will be provided to students at the commencement of each subject by the subject coordinator. Laboratory experience and workshop training are an essential part of the degree.

Each course consists of a common core of fundamentals and engineering practice subjects, with discipline specific examples incorporated into some tutorials. The discipline specific parts of each course consist of compulsory and elective subjects.

Engineering Scholars Program students have the option of undertaking research projects with the various Faculty Research Units. Students should discuss proposals with the Sub Dean before enrolling in the following subjects:

ENGG171 Scholars Research Project 1  
ENGG271 Scholars Research Project 2  
ENGG371 Scholars Research Project 3

The Faculty encourages the development of engineering skills and knowledge gained in the workplace through Professional Options. Students who work in appropriate industries can enrol in Professional Option subjects and count their industry skills and knowledge toward their degree. Depending on the degree, students will be able to take two or three 6 credit point Professional Option subjects during their course.

Professional Option Subjects include:

ENGG255 Professional Option 2  
ENGG355 Professional Option 3  
ENGG455 Professional Option 4

Approval should be sought from the Director of Studies for each discipline before enrolling in these subjects.

As a requirement for the award of the degree of the Bachelor of Engineering, students are required to obtain at least 12 weeks approved professional experience in a relevant industry during the course and submit a report to the satisfaction of the Director of Studies. Subject ENGG454 outlines the requirements for professional experience.

Honours are awarded at the end of the course on the basis of overall performance throughout the course. All students must take particular notice of the Course Rules regarding minimum rate of progress.

The Engineering degrees have been fully recognised by The Institution of Engineers, Australia. This recognition ensures that graduates from these courses are admitted, on application, to the grade of Graduate Membership of the Institution of Engineers, Australia.

The Faculty of Engineering offers courses leading to the degree of Bachelor of Engineering in the six major engineering disciplines listed below:

Civil  
Environmental  
Materials  
Mechanical  
Mechatronics  
Mining

The following double majors are also available:

Bachelor of Engineering - Civil/Mining  
Bachelor of Engineering - Civil/Environmental  
Bachelor of Engineering - Mining/Environmental

Bachelor of Engineering (Civil Engineering)

The course in Civil Engineering is aimed at providing broad based knowledge, training, skills and experience in the areas required for practice in civil engineering. The normal period of full time study is four years. However, the course can be taken on a part-time basis over a longer period of time, normally six years.

Upon satisfactory completion of the course students should be able to practise in areas requiring skills for planning, design and construction of buildings and bridges, dams, harbours, water supply systems, waste management systems, airports, roads, tunnels and railways. Graduates, therefore, will be able to integrate technical, planning, organisational, management, and financial skills, with an emphasis on those areas as their talents allow.
The structure of the course is such that the first year largely concerns basic subjects, such as mathematics, physics, chemistry, computing, and introductory engineering subjects. The second year is primarily devoted to engineering science subjects, but areas such as surveying, construction and design are introduced. The latter subjects are developed further in third year, where more time is devoted to engineering subjects, such as structures, hydraulics and hydrology, geomechanics, and more design work.

At the end of the third year, students are required, as a condition for graduation; to undertake at least twelve weeks of approved work in industry, whether for construction companies, consulting offices, or federal, state or local government agencies. For part-time students, each year of appropriate full time employment may be credited as one professional option elective, up to a maximum of three electives.

In the final year, emphasis is given to professional orientation, with subjects covering project management, structures, geomechanics design and water engineering. Roads engineering is also included, and some elective subjects are available for those students wishing to specialise further. Attention is given to a teamwork approach in a design that requires integration of all aspects of the course. Each student must prepare a substantial project thesis on a research or design topic under the supervision of a staff member.

The course has been fully recognised by the Institution of Engineers, Australia, which is the professional accrediting body. This recognition ensures that graduates from this course are admitted, on application, to the grade of Graduate Membership of the Institution of Engineers, Australia.

Honours are awarded at the end of the course on the basis of overall performance throughout the course.

All students must take particular notice of the Course Rules regarding minimum rate of progress. Students should attend all classes including lectures, tutorials and laboratory classes. The Director of Studies of Civil Engineering may refuse to certify that students have satisfactorily completed a subject unless they have attended at least 80 percent of the classes scheduled.

The following subjects must be completed in order to qualify for the Civil Engineering degree.

**Year 1 - Autumn**
- CHEM103 Chemistry for Engineers
- CIVL196 Engineering Computing 1
- ENGG154 Engineering Design and Innovation
- MATH141 Engineering Mathematics 1C Part 1 and
- or
- MATH187 Engineering Mathematics 1A Part 1 and

**Year 1 - Spring**
- ENGG152 Engineering Mechanics
- ENGG153 Engineering Materials
- PHYS143 Physics for Engineers
- MATH142 Engineering Mathematics 1C Part 2
- or
- MATH188 Engineering Mathematics 1A Part 2

**Year 2 - Autumn**
- ENGG251 Mechanics of Solids
- ENGG252 Engineering Fluid Mechanics
- ENGG261 Professional Engineers and the Management of Technology
- MATH283 Mathematics IIE for Engineers Part I

**Year 2 - Spring**
- CIVL245 Construction Materials
- CIVL272 Surveying
- ECTE290 Fundamentals of Electrical Engineering
- GEOS251 Geology for Engineers 1

**Year 3 - Autumn**
- CIVL311 Structural Design 1
- CIVL352 Structures 1
- CIVL361 Geomechanics 1
- CIVL392 Engineering Computing 2
Course Structures

**Year 3 - Spring**
- CIVL314 Structural Design 2
- CIVL322 Hydraulics and Hydrology
- CIVL394 Construction
- ENGG361 Engineering Management

**Year 4 - Autumn**
- CIVL454 Structures 2
- CIVL462 Geomechanics 2
- ENGG461 Project Management and Human Factors in Engineering

**Year 4 - Spring**
- CIVL444 Civil Engineering Design
- CIVL489 Roads Engineering
- Elective
- Plus (either Autumn or Spring)
- ENGG454 Professional Experience
- Plus (Annual)
- ENGG452 Thesis A (12cp)
  or
- ENGG453 Thesis B (18cp)

**Electives: one elective from the following list**
- CIVL415 Structural Design 3
- CIVL457 Structures 3
- CIVL463 Geomechanics 3
- CIVL487 Traffic Engineering
- CIVL491 Engineering Computing 3
- CIVL495 Public Health Engineering
- ECON101 Macroeconomic Essentials for Business
- ECON111 Introductory Microeconomics
- ECON215 Microeconomic Theory and Policy
- GEOS231 Environmental Input of Societies
- GEOS239 Remote Sensing of the Environment
- GEOS242 Living in Cities
- GEOS252 Geology for Engineers II
- MINE311 Surface Mining and Blasting

**Bachelor of Engineering (Environmental Engineering)**

The course in Environmental Engineering is aimed at providing broad based knowledge, training, skills and experience in the areas required to practise environmental engineering. The normal period of full time study is four years. However, the course can be taken on a part-time basis over a longer period of time, normally six years.

Graduates of this course will be able to work for industry, for government agencies and for engineering consultancies. The range of work will include: monitoring, analysis and design to control water, air and noise pollution; treatment and disposal of solid and hazardous waste; site remediation; and cleaner production and industrial waste management.

The first year of the course introduces mathematics, physics, chemistry, computing and general engineering subjects. The second year introduces environmental engineering subjects, plus advanced environmental chemistry, surveying and management skills. The emphasis in third year is on developing knowledge and skills across the range of environmental engineering topic areas.

At the end of third year students are required to undertake twelve weeks of approved work in industry, consulting engineering, commonwealth, state or local government agencies. For part-time students, each year of appropriate full time employment may be credited as one professional option elective, up to a maximum of three electives.

In the final year, emphasis is on environmental engineering practice, with subjects covering environmental engineering design, project management, site remediation and environmental impacts. Elective subjects may be taken from courses within and outside the Engineering Faculty. Each student prepares a substantial thesis on a research or design topic under the supervision of a staff member.
The course has been recognised by the Institution of Engineers, Australia, which is the professional accrediting body. This recognition ensures that graduates from this course are admitted, on application, to the grade of Graduate Membership of the Institution of Engineers, Australia.

Honours are awarded at the end of the course on the basis of overall performance throughout the course.

All students must take particular notice of the Course Rules regarding minimum rate of progress. Students should attend all classes including lectures, tutorials and laboratory classes. The Director of Studies of Environmental Engineering, may refuse to certify that students have satisfactorily completed a subject unless they have attended at least 80 percent of the classes scheduled.

The following subjects must be completed in order to qualify for the Environmental Engineering degree.

### Year 1 - Autumn
- CHEM103 Chemistry for Engineers
- CIVL196 Engineering Computing 1
- ENGG154 Engineering Design and Innovation
- MATH141 Engineering Mathematics 1C Part 1 and
  or
  MATH187 Engineering Mathematics 1A Part 1 and

### Year 1 - Spring
- ENGG152 Engineering Mechanics
- ENGG153 Engineering Materials
- PHYS143 Principles of Physics for Engineers
- MATH142 Engineering Mathematics 1C Part 2
  or
  MATH188 Engineering Mathematics 1A Part 2

### Year 2 - Autumn
- ENGG261 Professional Engineers and the Management of Technology
- ENGG251 Mechanics of Solids
- ENGG252 Engineering Fluid Mechanics
- MATH283 Mathematics MIE for Engineers Part I

### Year 2 - Spring
- CHEM214 Analytical and Environmental Chemistry
- CIVL272 Surveying
- ENVE220 Water Quality Engineering
- ENVE221 Air and Noise Pollution

### Year 3 - Autumn
- BIOL352 Biology for Environmental Engineers
- CIVL361 Geomechanics 1
- ENVE311 Pollution Control and Cleaner Production
- ENVE320 Environmental Engineering Design 1

### Year 3 - Spring
- CIVL322 Hydraulics and Hydrology
- ENGG361 Engineering Management
- ENVE321 Solid and Hazardous Waste Management
  Elective

### Year 4 - Autumn
- CIVL462 Geomechanics 2
- ENGG461 Project Management and Human Factors in Engineering
  Elective

### Year 4 - Spring
- ENVE410 Site Remediation
- ENVE421 Environmental Design 2
  Elective

Plus (either Autumn or Spring)
- ENGG454 Professional Experience
Course Structures

Plus (Annual)

ENGG452 Thesis A (12cp)

or

ENGG453 Thesis B (18cp)

Electives: 3 electives from the following list:
(one to be taken in Year 3; two to be taken in Year 4)

ACCY101 Accounting 1
CIVL392 Engineering Computing 2
CIVL394 Construction
CIVL463 Geomechanics 3
CIVL487 Traffic Engineering
CIVL489 Roads Engineering
ECON101 Macroeconomic Essentials for Business
ECON111 Introductory Microeconomics
ENVE411 Aqueous and Atmospheric Chemistry
ENVE420 Water Engineering
GEOS231 Environmental Impact of Societies
GEOS239 Remote Sensing of the Environment
GEOS251 Geology for Engineers
LAW100 Law in Society
LAW210 Contract Law
LAW334 Environmental Law
MECH341 Thermodynamics
MECH343 Heat Transfer and Gas Dynamics
MECH378 Sustainable Energy Technologies
MECH417 Biomedical Engineering
MECH438 Sustainable Transport and Engine Technologies
MECH474 Systems Engineering and Life Cycle Management
STS216 Environment and Technology
STS306 Special Topics on the Social and Policy Aspects of Engineering
STS376 Risk Assessment, Health and Safety

Note: Other electives may be taken subject to approval by the Director of Studies of Environmental Engineering. Not all electives will be offered in any one year.

Bachelor of Engineering (Materials Engineering)

The objective of the Materials Engineering course is to provide students with the knowledge and skills necessary for the design, development, production and application of engineering materials for gainful use by society. This objective is achieved through detailed study of the relationships between the structure, processing and properties of materials. The course is also designed to provide training in effective communication, management and teamwork skills, and the environmental sensitivity required of modern engineers.

The course is structured so that the early years provide training in sciences, mathematics, computing and design. This establishes the basis for the study of structures and properties of metallic, ceramic, polymeric and composite materials, the ways they are produced and processed, and how they are used in the manufacture of goods and engineering components. The emphasis of the later years of the course is on processing, and design and application of engineering materials.

In their final year, students can choose a series of elective subjects from a number of specialist areas: Materials Science and Technology, Metallurgical Processing, Materials Manufacturing or Polymers.

The course may be taken as a four year full-time program or a five year combined part-time/full-time program. A seven year part-time program is possible.

As a requirement for graduation, full-time students must gain at least twelve weeks approved experience in a relevant industry during the course. Part-time students in approved full-time employment may be exempted from up to three prescribed subjects by completion of Professional Option subjects.

Normally, a student may not proceed to subjects in the fourth year of the full-time course until subjects in the first and second year have been completed satisfactorily. In addition, students must satisfactorily complete a sufficient number of subjects each year to meet the minimum rate of progress requirement as set out in the Course Rules. Failure to do so may result in exclusion from the course.
Honours are awarded at the end of the course on the basis of overall performance throughout the course.

The course has been fully recognised by The Institution of Engineers, Australia, which is the professional accrediting body. This recognition ensures that graduates from this course are admitted, on application, to the grade of Graduate Membership of the Institution of Engineers, Australia.

Students entering the University who have attained an Associate Diploma in a relevant field from the New South Wales Department of Technical and Further Education or an approved equivalent qualification are entitled to limited exemptions as approved by the Director of Studies of Materials Engineering.

All students must take particular notice of the Course Rules regarding minimum rate of progress. Students should attend all classes including lectures, tutorials and laboratory classes. The Director of Studies of Materials Engineering may refuse to certify that students have satisfactorily completed a subject unless they have attended at least 80 percent of the classes scheduled.

The following subjects must be completed to qualify for the Materials Engineering degree.

**Year 1 - Autumn**
- CHEM103 Chemistry for Engineers
- ENGG261 Professional Engineers and the Management of Technology
- ENGG154 Engineering Design and Innovation
- MATH141 Engineering Mathematics 1C Part 1 and
  - or
  - MATH187 Engineering Mathematics 1A Part 1 and

**Year 1 - Spring**
- ENGG152 Engineering Mechanics
- ENGG153 Engineering Materials
- PHYS143 Principles of Physics for Engineers
- MATH142 Engineering Mathematics 1C Part 2
  - or
  - MATH188 Engineering Mathematics 1A Part 2

**Year 2 - Autumn**
- MATE201 Structure and Properties of Materials
- MATE202 Thermodynamics and Phase Equilibria
- MATE291 Engineering Computing and Laboratory Skills
- MATH283 Mathematics IIE for Engineers Part I

**Year 2 - Spring**
- ECTE290 Fundamentals of Electrical Engineering
- MATE203 Phase Transformations
- MATE204 Mechanical Behaviour and Fracture
- MATE304 Transport Phenomena in Materials Processing

**Year 3 - Autumn**
- ENGG251 Mechanics of Solids
- MATE301 Engineering Alloys
- MATE302 Polymeric Materials
- MATE391 Materials Testing Techniques

**Year 3 - Spring**
- ENGG361 Engineering Management
- MATE303 Ceramics, Glass and Refractories
- MATE305 Primary Materials Processing
- MATE306 Degradation of Engineering Materials

**Year 4 - Autumn**
- ENGG461 Project Management and Human Factors in Engineering
- MATE401 Selection of Materials in Engineering Design
- Elective
Course Structures

Year 4 - Spring
MATE402 Secondary Materials Processing
Elective
Elective
Plus (either Autumn or Spring)
ENGG454 Professional Experience
Plus (Annual)
ENGG452 Thesis A (12cp)
or
ENGG453 Thesis B (18cp)
Electives: Any 3 electives from the following groups:

Materials Science and Technology
MATE411 Advanced Materials and Processing
MATE412 Electronic Materials
MATE413 Structural Characterisation Techniques
MATE433 Surface Engineering

Metallurgical Processing
MINE421 Minerals Beneficiation
MATE421 Metallurgical Process Engineering
MATE422 Iron and Steelmaking
MATE432 Mechanical and Thermal Processing

Materials Manufacturing
MATE431 Sheet Metal Processing
MATE432 Mechanical and Thermal Processing
MATE433 Surface Engineering
MATE434 Materials Welding and Joining

Polymers
MATE441 Polymer Science
MATE442 Polymer Processing
MATE443 Advanced Polymers

Bachelor of Engineering (Mechanical Engineering)

The aim of this course is to give high quality academic training in mechanical engineering and to produce graduates with the core skills, knowledge and attributes required to practise as professional engineers. These required graduate skills/attributes are transferable to a wide range of careers and include:
- ability to formulate and solve problems
- a creative approach to design and synthesis
- excellent oral and written communication skills
- ability to work effectively in teams
- appreciation of the environmental, social and business contexts of Mechanical Engineering
- independent and self motivated approach
- understanding and commitment to lifelong learning
- in-depth technical competence in the Mechanical Engineering discipline.

The normal period of study for the BE degree is 4 years (8 semesters) full-time. The course also can be taken on a part-time basis subject to timetabling restrictions over a period of six or more years. Students are trained through a range of learning experiences that include laboratory experiments, problem-based learning, computer simulations, teamwork assignments, project work, industrial case studies and site visits to industry.

Mechanical Engineering has the broadest scope of all the branches of engineering and graduates in this field have the core skills to adapt to other fields of engineering. It includes many exciting fields such as advanced manufacturing, metal forming technology, robotics, control of systems, computer aided design and manufacturing, air conditioning, bio-mechanics, powder technology and bearing dynamics. The degree covers a wide range of technical subjects including engineering computing and instrumentation and workshop practice, mechanical engineering design, control of machines and processes, process design
and analysis, manufacturing process analysis, manufacturing systems, sustainable energy, transport and engine technologies, dynamics of engineering systems, bulk solids handling technology, fluid power, heat transfer and gas dynamics. Design innovation and project management are important aspects of mechanical engineering. The highlight of the course is the final year thesis, which requires each student to complete a major engineering project in a field of their choice or in research projects funded by government and/or industry.

Students can select electives from a number of specialist areas in their final year including, Sustainable Energy and Engineering Systems, Manufacturing Engineering, Applied Mechanics and Bulk Materials Handling. The list of electives on offer in any one year varies somewhat, depending on staff availability and other factors.

The course is fully recognised by the Institution of Engineers, Australia, which is the professional accrediting body. The course is recognised as meeting the examination requirements for admission to graduate and corporate membership of the Institution.

The Professional Option subjects allow part-time students to count their industrial experience towards their degree. Each of these subjects is taken over a year of appropriate and approved full-time industrial employment. Professional Option subjects may be counted in lieu of electives up to a maximum of 3 and completion of one or more gives a student an exemption in ENGG454 Professional Experience, which involves at least 12 weeks of work in industry and must be completed by full time students.

Students entering the University with a Mechanical Engineering Certificate or Associate Diploma from the New South Wales Department of Technical and Further Education (or an approved equivalent) are entitled to exemptions as approved by the Director of Studies of Mechanical Engineering.

All study programs are subject to approval by the Director of Studies. In general, students must satisfy pre- and co-requisites and are not permitted to enrol in subjects spanning more than two years of the full-time course. In particular, a candidate who has not satisfactorily completed all subjects in the first year of the prescribed four year course will not be permitted to proceed to study third year subjects; under exceptional circumstances approval to proceed may be given by the Director of Studies.

All students must take particular note of the regulations regarding Minimum Rate of Progress - refer to the University of Wollongong Course Rules. Honours are awarded at the end of the course on the basis of overall performance throughout the course.

Students should attend all classes including lectures, tutorials and laboratory classes. The Director of Studies may refuse to certify that students have satisfactorily completed a subject unless they have attended at least 80 per cent of the classes scheduled.

The following subjects must be completed to qualify for the Mechanical Engineering degree.

**Year 1 - Autumn**
- CHEM103 Chemistry for Engineers
- ENGG154 Engineering Design and Innovation
- MATH141 Engineering Mathematics 1C Part 1 and
- or MATH187 Engineering Mathematics 1A Part 1 and
- MECH152 Engineering Computing, Instrumentation and Workshop Practice

**Year 1 - Spring**
- ENGG152 Engineering Mechanics
- ENGG153 Engineering Materials
- PHYS143 Principles of Physics for Engineers
- MATH142 Engineering Mathematics 1C Part 2
- or MATH188 Engineering Mathematics 1A Part 2

**Year 2 - Autumn**
- ENGG251 Mechanics of Solids
- ENGG252 Engineering Fluid Mechanics
- ENGG261 Professional Engineers and the Management of Technology
- MATH283 Mathematics IIE for Engineers Part I

**Year 2 - Spring**
- ECTE290 Fundamentals of Electrical Engineering
- MECH201 Engineering Analysis
- MECH215 Fundamentals of Machine Component Design
- MECH226 Machine Dynamics

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### Course Structures

#### Year 3 - Autumn
- MECH311 Mechanical Engineering Design
- MECH321 Dynamics of Engineering Systems
- MECH341 Thermodynamics
- MECH382 Manufacturing Engineering Principles

#### Year 3 - Spring
- ENGG361 Engineering Management
- MECH343 Heat Transfer and Aerodynamics
- MECH365 Control of Machines and Processes
- MECH372 Bulk Solids Handling Technology

#### Year 4 - Autumn
- ENGG461 Project Management and Human Factors in Engineering
- Elective
- Elective

#### Year 4 - Spring
- Elective
- Elective
- Elective
- Plus (either Autumn or Spring)
  - ENGG454 Professional Experience
- Plus (Annual)
  - ENGG452 Thesis A (12cp)
  - or
  - ENGG453 Thesis B (18cp)

### Electives: 5 electives.
Electives on offer in 2002 will be a selection from the following list. Electives may be taken in other departments, subject to approval by the Director of Studies (maximum of two for full-time and one for part-time students).

#### Sustainable Energy and Engineering Systems
- MECH378 Sustainable Energy Technologies
- MECH442 Sustainable Energy in Buildings
- MECH474 Systems Engineering and Life Cycle Management
- MECH479 Sustainable Transport and Engine Technologies

#### Applied Mechanics
- MECH417 Biomedical Engineering
- MECH418 Mechanical Behaviour of Engineering Materials
- MECH419 Finite Element Methods in Engineering
- MECH420 Engineering Stress Analysis
- MECH430 Automotive Dynamics
- MECH431 Computational Fluid Dynamics
- MECH438 Fluid Power

#### Bulk Materials Handling
- MECH426 Storage and Flow of Bulk Solids
- MECH427 Mechanical Conveying of Bulk Solids
- MECH428 Pneumatic Conveying and Dust Control
- MECH429 Physical Processing of Bulk Solids

#### Manufacturing
- MECH421 Manufacturing Process Analysis
- MECH422 Design and Analysis of Manufacturing Systems
- MECH423 Design for Manufacturing
- MECH424 Managing Manufacturing Activities
- MECH468 Computer Control of Machines and Processes
- MECH481 Materials Welding and Joining (special topics in Mechanical Engineering 1)
- MECH487 Systems Analysis for Maintenance Management
- MECH488 Introduction to Condition Monitoring in Mechanical Engineering
- MECH489 Maintenance Management
- ECTE494 Robotics
Bachelor of Engineering (Mechatronic Engineering)

Mechatronic Engineering is the combination of Mechanical, Electrical and Computer technologies. It is a relatively new field of engineering with many exciting developments such as internet control of machines, autonomous robots and engine management systems.

The Mechatronics BE degree program at the University of Wollongong has been designed to give students high quality training in rapidly developing fields such as digital electronics, manufacturing, information technology and robotics.

In addition, the aim of the program is to produce graduates with the core skills, knowledge and attributes that will help them excel as professional engineers. These skills and attributes include:

- the ability to formulate and solve problems
- a creative approach to design and synthesis
- excellent oral and written communication skills
- ability to work effectively in teams
- appreciation of the environmental, social and business contexts of Engineering
- independent and self motivated approach
- understanding and commitment to lifelong learning
- in-depth technical competence in the field of Mechatronic Engineering

The course includes substantial training in design techniques to prepare the student for an exciting career in this emerging field of engineering.

The normal period of study for the BE degree is 4 years (8 semesters) full-time. Students are trained through a range of learning experiences that include hands-on laboratory experiments, problem-based learning, computer simulations, teamwork assignments, industrial case studies and site visits to industry.

The degree covers a wide range of technical subjects including computer science, innovation and design, electronics and communication, dynamics and control of machines, robotics and manufacturing processes.

The highlight of the course is the final year project in which students apply their knowledge and skills acquired during the previous years to solve a real-life Mechatronic Engineering problem. This may be carried out in one of our research laboratories or in industry.

Students entering the University with an appropriate Engineering Certificate or Associate Diploma from the New South Wales Department of Technical and Further Education (or an approved equivalent) are entitled to exemptions as approved by the Director of Studies.

In general, students must satisfy pre- and co-requisites and are not permitted to enrol in subjects spanning more than two years of the full-time course. In particular, a candidate who has not satisfactorily completed all subjects in the first year of the prescribed four year course will not be permitted to proceed to study third year subjects; under exceptional circumstances approval to proceed may be given by the Director of Studies in Mechanical Engineering.

All students must take particular note of the regulations regarding Minimum Rate of Progress - refer to the University of Wollongong Course Rules. Honours are awarded at the end of the course on the basis of overall performance throughout the course.

Students should attend all classes including lectures, tutorials and laboratory classes. The Director of Studies may refuse to certify that students have satisfactorily completed a subject unless they have attended at least 80 per cent of the classes scheduled.

The following subjects must be completed to qualify for the Mechatronic Engineering degree.

**Year 1 - Autumn**

CSCI111  Computer Science 1A  
ENGG261  Professional Engineers and the Management of Technology  
ENGG154  Engineering Design and Innovation  
MATH141  Engineering Mathematics 1C Part 1  
or  
MATH187  Engineering Mathematics 1A Part 1
Course Structures

Year 1 - Spring
ECTE101 Electrical Engineering 1
ENGG152 Engineering Mechanics
MATH142 Engineering Mathematics 1C Part 2
or
MATH188 Engineering Mathematics 1A Part 2
PHYS142 Fundamentals of Physics B

Year 2 - Autumn
ECTE202 Circuits and Systems
ECTE233 Digital Hardware 1
ENGG251 Mechanics of Solids
MATH283 Mathematics IIIE

Year 2 - Spring
CSCI121 Computer Science 1B
ENGG153 Engineering Materials
ECTE212 Electronics and Communications
MECH215 Fundamentals of Machine Component Design

Year 3 - Autumn
ECTE313 Electronics
ECTE344 Control Theory
ECTE371 Mechatronics Design
MECH311 Mechanical Engineering Design
MECH382 Manufacturing Engineering Principles

Year 3 - Spring
ECTE301 Digital Signal Processing
ECTE333 Digital Hardware 2
MECH266 Machine Dynamics

Year 4 - Autumn
ENGG461 Project Management and Human Factors in Engineering
Plus two elective subjects

Year 4 - Spring
ECTE494 Robotics
Elective
Elective
Plus (Annual)
ENGG452 Thesis A (12cp) or
ENGG453 Thesis B (18cp) or
ECTE457 Thesis (18cp)
Plus (either Autumn or Spring)
ENGG454 Professional Experience

Electives
Four electives are to be taken by students undertaking a 12 credit point thesis (three electives for students undertaking an 18 cp thesis). Electives are usually chosen from the list of electives on offer in the Faculties of Engineering and Informatics. The final year study program is to be determined in consultation with the Director of Studies of Mechanical Engineering.

Note: From 2003 two of the four electives (or two of the three if an 18 credit point thesis is undertaken) will be replaced by two new core subjects.
Bachelor of Engineering (Mining Engineering)

The course in Mining Engineering is aimed at providing broad based knowledge, training, skills and experience in the areas required in mining engineering. The normal period of full time study is four years. However, the course can be taken on a part-time basis over a longer period of time, normally six years.

Upon satisfactory completion of the course, students should be able to practise in areas requiring skills for mine planning and design, rock excavation, water and gas drainage and mine environment control. Graduates, therefore, will be able to integrate technical, planning, organisational, management and financial skills with an emphasis on those areas as their talents allow.

The structure of the course is such that the first year largely concerns basic subjects, such as mathematics, physics, chemistry, computing, and introductory engineering subjects. The second year is primarily devoted to engineering science subjects, but areas such as surveying, mining and design are introduced. The latter subjects are developed further in third year, where more time is devoted to engineering subjects, such as mining methods, both surface and underground methods, geology and mine transport and mine ventilation.

At the end of the third year, students are required, as a condition for graduation; to undertake at least twelve weeks of approved work in industry, whether for mining, or mining related companies, mining consultants, state or federal government agencies. For part-time students, each year of appropriate full time employment may be credited as one professional option elective.

In the final year, emphasis is given to professional orientation, with subjects covering project management, mine planning, mine geomechanics and minerals beneficiation. Some elective subjects are available for those students wishing to specialise further. Attention is given to a teamwork approach in a design that requires integration of all aspects of the course. Each student must prepare a substantial project thesis on a research or design topic under the supervision of a staff member.

The course has been fully recognised by both The Institution of Engineers, Australia, and the Australasian Institute on Mining and Metallurgy which are the professional accrediting bodies. This recognition ensures that graduates from this course are admitted, on application, to the grade of Graduate for both professional bodies.

Honours are awarded at the end of the course on the basis of overall performance throughout the course.

All students must take particular notice of the Course Rules regarding minimum rate of progress. Students should attend all classes including lectures, tutorials and laboratory classes. The Director of Studies in Mining Engineering may refuse to certify that students have satisfactorily completed a subject unless they have attended at least 80 percent of the classes scheduled.

The following subjects must be completed to qualify for the Mining Engineering degree.

Year 1 - Autumn
CHEM103 Chemistry for Engineers
CIVL196 Engineering Computing 1
ENGG154 Engineering Design and Innovation
MATH141 Engineering Mathematics 1C Part 1 and
or
MATH187 Engineering Mathematics 1A Part 1 and

Year 1 - Spring
ENGG152 Engineering Mechanics
ENGG153 Engineering Materials
PHYS143 Principles of Physics for Engineers
MATH 142 Engineering Mathematics 1C Part 2
or
MATH188 Engineering Mathematics 1A Part 2

Year 2 - Autumn
ENGG251 Mechanics of Solids
ENGG252 Engineering Fluid Mechanics
ENGG261 Professional Engineers and the Management of Technology
MATH283 Mathematics H E  for Engineers Part I

Year 2 - Spring
CIVL272 Surveying
ECTE290 Fundamentals of Electrical Engineering
MINE221 Underground Coal Mining Methods
GEOS251 Geology for Engineers 1
### Year 3 - Autumn
- CIVL361 Geomechanics 1
- CIVL392 Engineering Computing 2
- MINE311 Surface Mining and Blasting
- MINE312 Mine Ventilation

### Year 3 - Spring
- ENGG361 Engineering Management
- GEOS252 Geology for Engineers 2
- MINE321 Underground Metal Mining Methods
- MINE323 Mining Geomechanics

### Year 4 - Autumn
- ENGG461 Project Management and Human Factors in Engineering
- MINE411 Health and Safety in Mines
- Elective

### Year 4 - Spring
- MINE412 Mining Economics
- MINE421 Minerals Beneficiation
- MINE422 Mine Planning and Development

**Plus (Annual)**
- ENGG452 Thesis A (12cp) or
- ENGG453 Thesis B (18cp)

**Plus (either Autumn or Spring)**
- ENGG454 Professional Experience

**Notes:**
- Students who have passed GEOS307 in Spring 2000 will be exempted from GEOS252.

**Electives:** one elective from the following list
- ECON101 Macroeconomic Essentials for Business
- ECON111 Introductory Microeconomics
- ECON215 Microeconomic Theory and Policy
- GEOS302 Basin Resources
- GEOS307 Mineral Resources
- MINE431 Mine Water
- MINE433 Geostatistical Ore Reserve Estimation
- MINE434 Special Topics in Mining Engineering

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**Bachelor of Engineering (Civil and Mining Engineering)**

Refer to the introductions for both Civil and Mining Engineering.

**Prescribed subjects for all BE - Civil and Mining Engineering candidates:**

### 100-Level
- CHEM103 Chemistry for Engineers
- CIVL196 Engineering Computing 1
- ENGG152 Engineering Mechanics
- ENGG153 Engineering Materials
- ENGG154 Engineering Design and Innovation
- PHYS143 Principles of Physics for Engineers
- MATH141 Engineering Mathematics 1C Part 1 and
- MATH142 Engineering Mathematics 1C Part 2
  or
- MATH187 Engineering Mathematics 1A Part 1 and
- MATH188 Engineering Mathematics 1A Part 2

### 200-Level
- CIVL245 Construction Materials
- CIVL272 Surveying
- ECTE290 Fundamentals of Electrical Engineering
- ENGG251 Mechanics of Solids
Bachelor of Engineering (Civil and Environmental Engineering)

Refer to the introductions for both Civil and Environmental Engineering.

Prescribed subjects for all BE - Civil and Environmental Engineering candidates:

100-Level
- CHEM103 Chemistry for Engineers
- CIVL196 Engineering Computing 1
- ENGG152 Engineering Mechanics
- ENGG153 Engineering Materials
- ENGG154 Engineering Design and Innovation
- PHYS143 Principles of Physics for Engineers
- MATH141 Engineering Mathematics 1C Part 1 and
- MATH142 Engineering Mathematics 1C Part 2
  or
- MATH187 Engineering Mathematics 1A Part 1 and
- MATH188 Engineering Mathematics 1A Part 2

200-Level
- CIVL245 Construction Materials
- CIVL272 Surveying
- CHEM214 Analytical and Environmental Chemistry
- ECTE290 Fundamentals of Electrical Engineering
- ENGG251 Mechanics of Solids
- ENGG252 Engineering Fluid Mechanics
Course Structures

ENGG261  Professional Engineers and the Management of Technology
ENVE220  Water Quality Engineering
ENVE221  Air and Noise Pollution
GEOS251  Geology for Engineers 1
MATH283  Mathematics IIE for Engineers Part I

300-Level

Biol352  Biology for Environmental Engineers
CIVL311  Structural Design 1
CIVL314  Structural Design 2
CIVL322  Hydraulics and Hydrology
CIVL352  Structures 1
CIVL361  Geomechanics 1
CIVL392  Engineering Computing 2
CIVL394  Construction
ENGG361  Engineering Management
ENVE311  Pollution Control and Cleaner Production
ENVE320  Environmental Engineering Design 1
ENVE321  Solid and Hazardous Waste Management

400-Level

CIVL444  Civil Engineering Design
CIVL454  Structures 2
CIVL462  Geomechanics 2
CIVL489  Roads Engineering
ENGG461  Project Management and Human Factors in Engineering
ENGG454  Professional Experience
ENGG452  Thesis A (12cp)
or
ENGG453  Thesis B (18cp)
ENVE410  Site Remediation
ENVE421  Environmental Design 2

Bachelor of Engineering (Mining and Environmental Engineering)

Refer to the introductions for both Mining and Environmental Engineering.

Prescribed subjects for all BE - Mining and Environmental candidates:

100-Level

CHEM103  Chemistry for Engineers
CIVL196  Engineering Computing 1
ENGG261  Professional Engineers and the Management of Technology
ENGG152  Engineering Mechanics
ENGG153  Engineering Materials
ENGG154  Engineering Design and Innovation
PHYS143  Principles of Physics for Engineers
MATH141  Engineering Mathematics 1A Part 1 and
MATH142  Engineering Mathematics 1A Part 2
or
MATH187  Engineering Mathematics 1A Part 1 and
MATH188  Engineering Mathematics 1A Part 2

200-Level

CHEM214  Analytical and Environmental Chemistry
CIVL272  Surveying
GEOS251  Geology for Engineers 1
GEOS252  Geology for Engineers 2
ECTE290  Fundamentals of Electrical Engineering
ENGG251  Mechanics of Solids
ENGG252  Engineering Fluid Mechanics
ENVE220  Water Quality Engineering
Bachelor of Medical Radiation Physics

The Bachelor of Medical Radiation Physics degree is designed to produce physics graduates with the specialist skills in Medical Radiation Physics necessary to find employment in hospitals, research or industry along with a strong background in basic physics.

Students will have a specialist knowledge in areas relating to nuclear medicine, radiation physics, detector and instrumentation physics and data analysis. Graduates working in the area require both a theoretical background and practical skills in physics with an emphasis on advanced knowledge and practice in specialists areas applicable to medical physics.

Professional medical physicists from major hospitals in the state will deliver key lectures and practical work as well as co-supervising Honours students thesis work. Students will find that they will move easily into employment and/or postgraduate work in this specialised area.

In the fourth year students will complete an in depth research project on an aspect of Medical Physics.

The following subjects must be completed in order to qualify for the Bachelor of Medical Radiation Physics.

100-Level

BMS101 Systemic Anatomy
BMS112 Human Physiology
PHYS141 Fundamental Physics A
PHYS142 Fundamental Physics B
MATH187 Mathematics 1A Part 1
MATH188 Mathematics 1A Part 2
Electives: Choose 2 Electives

200-Level

MATH201 Multivariate and Vector Calculus
MATH253 Linear Algebra
MATH291 Differential Equations
Course Structures

PHYS205 Advanced Modern Physics
PHYS215 Vibrations, Waves and Optics
PHYS225 Electromagnetism and Optoelectronics
PHYS235 Mechanics and Thermodynamics
PHYS255 Radiation Physics
Electives: Choose one elective

300-Level
PHYS305 Quantum Mechanics
PHYS325 Electromagnetism
PHYS365 Detection of Radiation: Neutrons, Electrons and X-Rays
PHYS375 Nuclear Physics
PHYS385 Statistical Mechanics
Electives: Choose one Elective

400-Level
PHYS451 Nuclear Medicine
PHYS452 Medical Imaging
PHYS453 Radiobiology and Radiation Protection
PHYS457 Research Project

Bachelor of Science (Physics)

This degree course may be taken on a part time basis provided that students are able to attend classes at the scheduled times.

Two major programs in Physics are offered:

i) Basic Major Program in Physics - a basic Physics program, designed with a minimum of compulsory subjects for combining with an array of elective subjects or a second major in another discipline - or

ii) Full Major Program - a full Physics program for students planning to undertake Honours and to pursue a career as a professional physicist.

Graduates of both programs may apply for membership of the Australian Institute of Physics.

The following subjects must be completed in order to qualify for the Bachelor of Science (Physics).

Basic Major Program in Physics

100-Level
PHYS141 Fundamentals of Physics A
PHYS142 Fundamentals of Physics B
plus
MATH187 Mathematics 1A Part 1
MATH188 Mathematics 1A Part 2
or
MATH141 Mathematics 1C Part 1 and
MATH142 Mathematics 1C Part 2

200-Level
MATH201 Multivariate and Vector Calculus
MATH253 Linear Algebra
MATH291 Differential Equations
PHYS205 Advanced Modern Physics
PHYS215 Vibrations, Waves and Optics
PHYS225 Electromagnetism Optoelectronics
PHYS235 Mechanics and Thermodynamics

300-Level
PHYS305 Quantum Mechanics
PHYS325 Electromagnetism
and two of
PHYS375 Nuclear Physics
PHYS335 Classical Mechanics
PHYS385 Statistical Mechanics
PHYS390    Astro Physics
Plus additional 12 cp of subjects taken from the Science or Engineering Schedules
Major Total: 90cp

Full Major Program

100-Level
PHYS141    Fundamentals of Physics A
PHYS142    Fundamentals of Physics B
plus
MATH187    Mathematics 1A Part 1
MATH188    Mathematics 1A Part 2
or
MATH141    Mathematics 1C Part 1 and
MATH142    Mathematics 1C Part 2

200-Level
PHYS205    Advanced Modern Physics
PHYS215    Vibrations, Waves and Optics
PHYS225    Electromagnetism Optoelectronics
PHYS235    Mechanics and Thermodynamics
PHYS295    Concepts of the Modern Universe
MATH201    Multivariate and Vector Calculus
MATH203    Linear Algebra
MATH291    Differential Equations
MATH293    Complex Variables

300-Level
PHYS305    Quantum Mechanics
PHYS325    Electromagnetism
PHYS335    Classical Mechanics
PHYS375    Nuclear Physics
PHYS385    Statistical Mechanics
PHYS390    Astro Physics
PHYS396    Electronic Materials

Major Study: 108 Credit Points

Physics Electives

100-Level
PHYS131    Physics for the Environmental and Life Sciences A
PHYS132    Physics for the Environmental and Life Sciences B
PHYS141    Fundamentals of Physics A
PHYS142    Fundamentals of Physics B
PHYS143    Physics for Engineers

200-Level
PHYS205    Modern Physics
PHYS206    Project in Physics
PHYS215    Vibrations, Waves and Optics
PHYS225    Electromagnetism and Optoelectronics
PHYS230    Intermediate Physics
PHYS235    Mechanics and Thermodynamics
PHYS255    Radiation Physics
PHYS295    Concepts of the Modern Universe

300-Level
PHYS305    Quantum Mechanics
PHYS306    Intermediate Project in Physics
PHYS325    Electromagnetism
PHYS335    Classical Mechanics
PHYS365    Detection of Radiation: Neutrons, Electrons and X Rays
PHYS375    Nuclear Physics
Course Structures

PHYS385  Statistical Mechanics
PHYS390  Astro Physics
PHYS396  Electronic Materials

400-Level
PHYS401  Theoretical Mechanics and Electromagnetism
PHYS405  Honours in Physics
PHYS415  Honours in Physics, Part-time A
PHYS425  Honours in Physics, Part-time B
PHYS441  Astro- and Nuclear Physics
PHYS444  Quantum Mechanics
PHYS446  Solid State Physics
PHYS451  Nuclear Medicine
PHYS452  Medical Imaging
PHYS453  Radiobiology and Radiation Protection
PHYS456  Imaging Physics
PHYS457  Research Project

Subjects offered by non-member Departments of the Faculty of Engineering toward the Physics Program:
CSCI111  Computer Science 1A
CSCI121  Computer Science 1B
MATH187  Mathematics 1A Part 1
MATH188  Mathematics 1A Part 2
MATH141  Mathematics 1C Part 1
MATH142  Mathematics 1C Part 2
MATH201  Multivariate and Vector Calculus
MATH202  Differential Equations
MATH203  Linear Algebra
MATH204  Complex Variables and Group Theory
MATH253  Linear Algebra
MATH283  Mathematics IIE for Engineers
MATH291  Differential Equations
MATH293  Complex Variables
STAT231  Statistics 1A

Bachelor of Science (Honours) Advanced Program - Physics

The Advanced Program, designed specifically for high achieving students offers direct entry into Honours, unlike the normal BSc which delays selection for Honours until the completion of the third year. It offers a greater degree of flexibility in program design through the possibility of exemptions from some first year subjects; direct entry into some 200 level subjects; the opportunity to undertake individual research subjects at second, third and fourth year level; the opportunity to progress at a faster rate through the use of "fast tracking" mechanisms; the chance to participate in various enrichment activities and to develop a close association with an appropriate member of one of the Faculty's research teams. In the final year, all students undertake a substantial piece of supervised research in their major discipline together with other required seminar and/or course work.

Study programs are structured on an individual basis in consultation with the Director of Studies. Students are required to fulfill all the normal BSc and Honours requirements and may select their major study program from any of those available from Engineering Physics.

Bachelor of Science (Materials)

The objective of the Materials Science course is to provide the scientific knowledge and technical skills necessary for a successful materials based career in areas such as quality control and laboratory testing, materials process control, and research and development in government and private sector laboratories. It also provides an ideal basis for those who wish to pursue a career in secondary teaching. The core materials subjects involve detailed study of the structure and properties of metals, ceramics and polymers. This is complemented by studies in design and innovation, maths, and sciences. Students may select elective subjects in a wide range of fields to further extend their knowledge.

The course is structured so that the first year provides education in basic sciences, mathematics, design and an introduction to materials. This is followed in later years by detailed study of the structures of materials, physical and mechanical properties,
thermodynamics, kinetics, corrosion and wear, and materials testing. Electives in second and third years can include additional studies in materials (electronic materials, advanced materials, materials processing, etc.), chemistry, physics, engineering or general studies. The electives are normally selected to provide a coherent minor in a particular field. Students should consult their Director of Studies when choosing elective subjects. Some suggested elective programs are shown below.

An additional Honours year is available for those who achieve a satisfactory level of performance in the first three years of the course. Students are required to fulfil all the normal BSc and Honours requirements.

The following subjects must be completed in order to qualify for the Bachelor of Science (Materials)

**Core Subjects**

**Year 1**
- CHEM101 Chemistry 1A
- CHEM102 Chemistry 1B
- PHYS141 Fundamental Physics A
- PHYS142 Fundamental Physics B
- ENGG153 Engineering Materials
- ENGG154 Engineering Innovation and Design
- MATH141 Engineering Mathematics 1C Part 1 and
- MATH142 Engineering Mathematics 1C Part 2
  or
- MATH187 Engineering Mathematics 1A Part 1 and
- MATH188 Engineering Mathematics 1A Part 2

**Year 2**
- MATE201 Structure and Properties of Materials
- MATE202 Thermodynamics and Phase Equilibria
- MATE203 Phase Transformations
- MATE204 Mechanical Behaviour
- MATE291 Engineering Computing and Laboratory Skills

Plus 18 credit points of electives from the Engineering, Science or General Schedules.

**Year 3**
- MATE301 Engineering Alloys
- MATE302 Polymeric Materials
- MATE303 Ceramics, Glass and Refractories
- MATE306 Degradation of Materials
- MATE391 Materials Testing

Plus 18 credit points of electives from the Engineering, Science or General Schedules.

**Year 4**
- MATE406 Research Project

Plus 24 credit points of electives from the Engineering, Science or General Schedules.

**Electives**

**Materials**
- MATE305 Primary Materials Processing
- MATE402 Secondary Materials Processing
- MATE411 Advanced Materials and Processing
- MATE412 Electronic Materials
- MATE413 Structural Characterisation Techniques

**Chemistry**
- CHEM211 Inorganic Chemistry II
- CHEM212 Organic Chemistry II
- CHEM213 Physical Chemistry II
- CHEM214 Analytical and Environmental Chemistry
- CHEM311 Inorganic Chemistry III
- CHEM314 Instrumental Analysis
- CHEM321 Organic Synthesis and Reactivity
Course Structures

Science and Technology Studies
STS100  Social Aspects of Science and Technology
STS112  The Scientific Revolution: History, Philosophy and Politics of Science
STS215  Science, Technology and Progress
STS216  Environment and Technology
STS229  Scientific and Technological Controversy
STS321  Technology, Politics and Power
STS376  Risk Assessment, Health and Safety

Bachelor of Engineering - Bachelor of Arts

The Faculties of Arts and Engineering offer double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Arts and Bachelor of Engineering. These courses provide education in a discipline of Engineering, together with a major study in Arts to broaden the knowledge base of the graduate thereby enhancing career prospects. The Engineering courses are accredited by the Institution of Engineers, Australia.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Arts, or the course for the degree of Bachelor of Engineering, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

Bachelor of Arts

To qualify for the award of the degree of Bachelor of Arts, a candidate must satisfactorily complete;

a) subjects to the value of at least 90 credit points selected from the General Schedule or the Arts Schedule, together with
b) subjects to the value of at least 54 credit points prescribed by one of the Engineering programs.

Of the above specified 144 credit points required for the Arts degree:

a) at least 72 credit points, including a major study, shall be from subjects listed in the Arts Schedule;
b) at least 36 credit points shall be for subjects offered by one or more academic units of the Faculty of Arts and
c) no more than 60 credit points shall be for 100-level subjects.

Students intending to enrol in Japanese must contact the Modern Languages Program Office. Students undertaking the beginner strand in the Japanese language are required to take 36 credit points in Japanese in the first year of full-time study. Enrolment in Japanese is not recommended for part-time students.

A candidate who qualifies for award of the degree of Bachelor of Arts, and who satisfies entry requirements, may subsequently enrol in the course for the honours degree of Bachelor of Arts as set out in the Course Rule 112.

Bachelor of Engineering

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credit points, 174 credit points must be Engineering subjects taken from the following:

Bachelor of Engineering - Core Subjects
plus the subjects leading to one of the Engineering degrees:

Bachelor of Engineering - Civil Engineering
Bachelor of Engineering - Environmental Engineering
Bachelor of Engineering - Materials Engineering
Bachelor of Engineering - Mechanical Engineering
Bachelor of Engineering - Mechatronics Engineering
Bachelor of Engineering - Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time engineering employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Course Coordinator.
Bachelor of Engineering - Bachelor of Commerce

The Faculties of Commerce and Engineering offer a double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Commerce and Bachelor of Engineering. These courses provide education in a discipline of Engineering, together with a major study in Commerce to broaden the knowledge base of the graduate thereby enhancing career prospects. The Engineering courses are accredited by the Institution of Engineers, Australia.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Commerce, or the course for the degree of Bachelor of Engineering, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

Because of the very large number of possible combinations between the two faculties student study programs will be determined via a contract signed by the student and the appropriate course coordinators and Sub-Deans.

Bachelor of Commerce

Candidates are required to complete core subjects and subjects which satisfy the requirements of one of the Commerce programs. Candidates need to be aware that the number of credit points required by each program varies and that they must seek advice and approval from the Sub Dean and relevant Head of Department of Commerce before enrolment.

Students should be aware that it may not be possible to complete all Commerce programs with the usual 264 credit points required for a double degree.

The following subjects may be substituted for another Commerce schedule subject on completion of the alternate Engineering subject:

1. BUSS110 Introduction to Business Information Systems

   Alternate subjects:
   CIVL196 Engineering Computing 1
   or
   MECH152 Engineering Computing Instrumentation and Workshop Practice
   or
   MATE291 Engineering Computing and Laboratory Skills

2. ECON121 Qualitative Methods 1

   Alternative subject:
   MATH283 Mathematics IIE PI

Bachelor of Engineering

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credits points, 174 credits points must be Engineering subjects taken from the following:

Bachelor of Engineering - Core Subjects

plus subjects leading to one of the following degrees:

Bachelor of Engineering - Civil Engineering
Bachelor of Engineering - Environmental Engineering
Bachelor of Engineering - Materials Engineering
Bachelor of Engineering - Mechanical Engineering
Bachelor of Engineering - Mechatronics Engineering
Bachelor of Engineering - Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time engineering employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Course Coordinator at enrolment.
Course Structures

**Bachelor of Engineering - Bachelor of Computer Science**

The Faculties of Engineering and Informatics offer double degree courses over five years of full-time or eight years of part-time study leading to the degrees of Bachelor of Engineering and Bachelor of Computer Science. These courses provide education in a discipline of Engineering, together with a major study in Computer Science to broaden the knowledge base of the graduate thereby enhancing careers prospects. The Engineering courses are accredited by the Institution of Engineers, Australia.

Requirements for admission to the double degree is a Universities Admission Index, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Engineering, or the course for the degree of Bachelor of Computer Science, whichever is higher. Pre-requisites for both degrees must be satisfied.

**Bachelor of Computer Science**

To qualify for the award of the degree of Bachelor of Computer Science, a candidate must satisfactorily complete requirements 1-7, excluding 4, of the Bachelor of Computer Science Course Rules.

**Bachelor of Engineering**

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credit points, 174 credit points must be in Engineering subjects taken from the following:

- Bachelor of Engineering - Core Subjects
- Plus subjects leading to one of the following degrees:
  - Bachelor of Engineering – Civil Engineering
  - Bachelor of Engineering – Environmental Engineering
  - Bachelor of Engineering – Materials Engineering
  - Bachelor of Engineering – Mechanical Engineering
  - Bachelor of Engineering – Mechatronics Engineering
  - Bachelor of Engineering – Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Course Coordinator at enrolment.

**Bachelor of Engineering - Bachelor of Mathematics**

The Faculties of Engineering and Informatics offer double degree courses over five years of full-time or eight years of part-time study leading to the degrees of Bachelor of Engineering and Bachelor of Mathematics. These courses provide education in a discipline of Engineering, together with a major study in Mathematics to broaden the knowledge base of the graduate thereby enhancing careers prospects. The Engineering courses are accredited by the Institution of Engineers, Australia.

Requirements for admission to the double degree is a Universities Admission Index, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Engineering, or the course for the degree of Bachelor of Mathematics, whichever is higher. Pre-requisites for both degrees must be satisfied.

**Bachelor of Mathematics**

To quality for the award of the degree of Bachelor of Mathematics, a candidate must satisfactorily complete requirements 1 to 9, excluding 5, of the Bachelor of Mathematics degree rules, including no more than 18 credit points at 100 level.

**Bachelor of Engineering**

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credit points, 174 credit points must be in Engineering subjects taken from the following:

- Bachelor of Engineering – Core Subjects
- Plus subjects leading to one of the following degrees:
  - Bachelor of Engineering – Civil Engineering
  - Bachelor of Engineering – Environmental Engineering
  - Bachelor of Engineering – Materials Engineering
  - Bachelor of Engineering – Mechanical Engineering

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Bachelor of Engineering – Mechatronics Engineering
Bachelor of Engineering – Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Course Coordinator at enrolment.

**Bachelor of Engineering - Bachelor of Science**

The Faculties of Engineering and Science offer double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Engineering and Bachelor of Science. These courses provide education in a discipline of Engineering, together with a major study in Science to broaden the knowledge base of the graduate thereby enhancing career prospects. The Engineering courses are accredited by the Institution of Engineers, Australia.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Engineering, or the course for the degree of Bachelor of Science, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

**Bachelor of Science**

To qualify for the award of the degree of Bachelor of Science, a candidate must satisfactorily complete;

a) subjects having a value of at least 90 credit points selected from the Science Schedule, which include either a major study prescribed by the Faculty of Science, or a major prescribed by Engineering Physics within the Faculty of Engineering; together with

b) subjects having a value of at least 54 credit points prescribed by one of the Engineering programs.

Of the above specified 144 credit points required for the Science degree:

a) at least 72 credit points, including a major study, shall be from subjects offered by Academic Units within the Faculty of Science or by Engineering Physics in the Faculty of Engineering; and no more than 60 credit points shall be for 100-level subjects.

A candidate who qualifies for award of the degree of Bachelor of Science, and who satisfies entry requirements, may subsequently enrol in the course for the honours degree of Bachelor of Science as set out in the Course Rule 112.

**Bachelor of Engineering**

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credits points, 174 credits points must be in Engineering subjects taken from the following:

Bachelor of Engineering - Core Subjects

plus subjects leading to one of the following degrees:

Bachelor of Engineering - Civil Engineering
Bachelor of Engineering - Environmental Engineering
Bachelor of Engineering - Materials Engineering
Bachelor of Engineering - Mechanical Engineering
Bachelor of Engineering - Mechatronics Engineering
Bachelor of Engineering - Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time engineering employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Course Coordinator at enrolment.

**Bachelor of Engineering - Bachelor of Laws**

Refer to the Faculty of Law section for details of this double degree program.
Subject Descriptions

CORE ENGINEERING SUBJECTS

ENGG152 Engineering Mechanics 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to iv Other short examinations: objectives i to iv Laboratory reports: objectives i and v
Subject Description: Two dimensional statics of particles and rigid bodies. Forces in frames. Kinematics of particles in rectilinear and plane motion. Kinetics of particles: equations of motion; work and energy; impulse and momentum.
Subject Objectives: On successful completion of this subject students should be able to: (i) understand and simplify force and moment systems; (ii) draw and apply free body diagrams to solve engineering systems; (iii) analyse particles in equilibrium and motion, including work, energy, impulse and momentum; (iv) analyse simple engineering problems in statics and dynamics; (v) understand and observe basic behaviour of static and dynamic systems.

ENGG153 Engineering Materials 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives ii to v Quizzes: objectives ii to v Tutorial/practical assignments: objectives i, iii and iv
Subject Description: Introduction to engineering materials: definition and description of properties; influence of material properties on engineering design; description of material structures and relationships to properties; production processes for engineering materials; the materials cycle. Case studies illustrating the use of metals, ceramics and polymers in engineering applications. Practical classes on measuring mechanical properties and observing mechanical behaviour.
Subject Objectives: On successful completion of this subject students should be able to: (i) use materials properties data to solve basic engineering design problems; (ii) define the main categories of engineering materials and describe their general properties; (iii) define the main mechanical properties of materials and describe elastic, plastic and viscoelastic mechanical behaviour; (iv) conduct tensile tests on material samples and calculate the main mechanical properties from the data obtained; (v) describe the general relationships between structure, processing and properties of metals, ceramics and polymers; (vi) describe the production of major engineering materials from natural resources.

ENGG154 Engineering Design and Innovation 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Progressive Assessment through quizzes: objectives i and ii Assignments: objective i Design reports: objective iii Presentations: objective iii
Subject Description: (a) Engineering Drawing: Introduction and standards information; geometrical constructions; freehand sketching; the production of a mechanical drawing; orthographic projection; selection and layout of views; sectional views of orthographic projections; auxiliary views of orthographic projections; general arrangements and assembly drawings. (b) Computer-Aided Drafting/Introduction to computer aided drafting; Use of entity draw and selected utility commands and services; dimensioning, display controls; coordinate systems; editing and inquiry commands; entity properties (layers) and use of blocks. (c) The phases of design/team building; design and manufacturing processes; design models; design economics; decision processes; creative design; case studies. The three sections of this subject will be presented as an integrated whole. This will be achieved through a number of creative design projects and case studies.
Subject Objectives: As a result of involvement in the activities of this subject the students should be able to: (i) read and produce engineering drawings; (ii) produce computer-aided drawings using AutoCAD; (iii) learn in a team/cooperative environment and produce creative designs of simple products/ideas both in general engineering and their own engineering discipline.

ENGG171 Scholars Research Project 1 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: Students must be enrolled in the Engineering Scholars Program.
Exclusions: none
Assessment: Research proposal, seminar presentation, progress report and final report.
Subject Description: The subject introduces students to specific areas of research in the field of Engineering. Topics will be negotiated based on the current activities of various research units linked to the Faculty of Engineering and the interests of the student. Students will join a particular project and undertake certain tasks under the supervision of a designated staff member. Students are required to undertake literature reviews, collect and analyse data and report on their findings to the research team. Hands on experience in an engineering laboratory is a feature.
Subject Objectives: 1. Develop a research proposal, supported by initial review of existing knowledge. 2. Construct a literature search on appropriate search engines. 3. Design an experiment to examine an engineering research problem. 4. Structure a research report.

ENGG251 Mechanics of Solids 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial and laboratory assignments: objectives i to iv 1 hour mid-session quiz: objectives i and ii 2 hour final examination: objectives i and ii


Subject Objectives: On successful completion of this subject, students should be able to: (i) have a general understanding of the concepts and methods of mechanics of materials and elementary structural analysis; (ii) solve problems involving stress and strain, deflections, failure loads and stability; (iii) develop skills in experimental stress-strain analysis; (iv) understand and observe basic behaviour of structural elements.

**ENGG252 Engineering Fluid Mechanics 6cp**

**Contact Hours:** information unavailable

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Final examination: objectives i to v Mid-session quizzes: objectives i and iv Tutorial assignments: objectives i to iv Laboratory work on hydrostatics, momentum of fluid, venturi meter, wave flow and pipe flows.

**Subject Description:** This subject is designed to introduce elementary fluid mechanics concepts for civil, environmental, mechanical and mining engineers. The topics include fluid properties, hydrostatics, manometry, Bernoulli's, mass, energy and momentum equations and their applications, dimensional analysis, fluid flow in pipes, pipe friction losses and fluid flow measurements. The lecture components will be complemented with tutorials and laboratory classes. This subject intends to provide a working knowledge to solve simple fluid flow problems in the various branches of engineering. Students are assumed to have knowledge of 1st year engineering mathematics.

**Subject Objectives:** On successful completion of this subject students should be able to: (i) understand fundamental engineering concepts relating to fluid properties; (ii) derive and solve hydrostatics problems encountered in manometers, plane and curved surfaces and buoyant bodies; (iii) solve problems associated with the three fundamental fluid flow equations namely equations of mass, momentum and energy; (iv) carry out analysis of problems associated with fluid flow in pipes; (v) measure fluid flow using simple flow measuring principles associated with weirs, venturi meters, nozzles, orifices and pipes.

**ENGG255 Professional Option 2 6cp**

**Contact Hours:** information unavailable

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** A work plan, a 4000 word report and a formal seminar presentation. All submitted material must be certified by a professional supervising engineer.

**Subject Description:** This subject is for students currently in approved full-time employment and enrolled in a part-time study program. This subject will normally be taken in Stages 3, 4 or 5 of the BE Program or in Years 2 or 3 of the B Tech program. Students must seek approval to enrol in this subject from the Director of Studies. Approval will be granted to students who can demonstrate that their employment provides appropriate experience and training as part of their degree program. Approval will not be granted for work that involves essentially trivial/routine tasks or that is not directly related to the discipline of engineering relevant to the student's program.

**Subject Objectives:** On satisfactory completion of this subject students should be able to: (i) maintain a professional diary; (ii) write a technical report detailing their activities during their employment; (iii) critically evaluate the activities carried out during the period of employment; (iv) report on the application and relevance of University subjects to their industrial employment.

**ENGG261 Professional Engineers and the Management of Technology 6cp**

**Contact Hours:** information unavailable

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Tutorial Assignments: objectives i to viii Seminar: objective ix Reports: objectives v to ix

**Subject Description:** An introduction to the engineering profession, the important role engineers play in managing technology in a modern community, and development of communications skills essential for effective leadership. Topics include the engineering profession, engineering design and philosophy, the engineer's role in modern society, communications processes, research methods, oral and written communications techniques. Case studies, statistics, and historical data are used to stimulate wide ranging thought and discussion about the engineering profession, our role and responsibilities.

**Subject Objectives:** On successful completion of this subject students should be able to: (i) explain what it means to be a professional engineer; (ii) discuss the qualities and skills that an engineer requires to do their job well; (iii) explain the significance of communications to effective management, and identify barriers to communications; (iv) recognise the experimental nature of engineering design, and the implications of this; (v) understand the research process, and how engineers apply it to problem solving; (vi) discuss ways in which technological developments are socially shaped and directed; (vii) identify environmental factors that should be considered in engineering activities and incorporated into engineering design; (viii) recognise the ways in which legislation, regulation and technological change are related; (ix) be able to communicate technical information to a variety of audiences in a clear, concise and professional manner.
Subject Descriptions

ENGG271 Scholars Research Project 2  6cp
Autumn  Wollongong  On Campus
Spring  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: Students must be enrolled in the Engineering Scholars Program.
Exclusions: none
Assessment: Research proposal, seminar presentation, progress report and final report.
Subject Description: The subject introduces students to specific areas of research in the field of Engineering. Topics will be negotiated based on the current activities of various research units linked to the Faculty of Engineering and the interests of the student. Students will join a particular project and undertake certain tasks under the supervision of a designated staff member. Students are required to undertake literature reviews, collect and analyse data and report on their findings to the research team. Experience in engineering design, experimentation and data analysis will be a feature.

Subject Objectives: 1. Design an experiment to examine an engineering problem. 2. Collect and analyse data sets. 3. Evaluate data and synthesise into ideas and concepts. 4. Communicate research results and ideas to a research group verbally and in writing.

ENGG291 Engineering Fundamentals  6cp
Spring  Wollongong  On Campus
Contact Hours: 70.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final Examination (60%) Laboratory work and assignments (40%)
Subject Description: An introduction to the principles of engineering materials, mechanics of solids and heat transfer for electrical engineers. Bonding and crystal structure in metals, structure and properties of ferrous and non-ferrous alloys, origin of electrical/electronic, magnetic and engineering properties, structure and properties of polymers and ceramics, corrosion and corrosion protection, insulation selection of materials for applications in electrical engineering. Forces, moments and equilibrium states, stresses in beams, cylinders and shafts, simple deflection analysis. Conduction, convection and radiation and how to analyse situations involving heat transfer in the field of electrical engineering.

Subject Objectives: On successful completion of this subject students should: (i) understand the structure-property relationships in metals, polymers and ceramics; (ii) understand the origin of electrical and magnetic properties in solids; (iii) be able to understand the degradation aspects of materials especially corrosion and corrosion protection; (iv) have some understanding of materials applications in electrical engineering; (v) to understand forces, moments and equilibrium states and the relationship between stress and strain; (vi) understand the affect of stresses on simple engineering systems; (vii) analyse thermal engineering problems relevant to electrical engineering (e.g. cooling of electronics, power transformers, motors)

ENGG355 Professional Option 3  6cp
Annual  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: A work plan, a 4000 word report and a formal seminar presentation. All submitted material must be certified by a professional supervising engineer.
Subject Description: This subject is for students currently in approved full-time employment and enrolled in a part-time study program. This subject will normally be taken in Stages 3, 4 or 5 of the BE Program or in Years 2 or 3 of the BTech program. Students must seek approval to enrol in this subject from their Director of Studies. Approval will be granted to students who can demonstrate that their employment provides appropriate experience and training as part of their degree program. Approval will not be granted for work that involves essentially trivial/routine tasks or that is not directly related to the discipline of engineering relevant to the student's program.

Subject Objectives: On satisfactory completion of this subject students should be able to: (i) maintain a professional diary; (ii) write a technical report detailing their activities during their employment; (iii) critically evaluate the activities carried out during the period of employment; (iv) report on the application and relevance of University subjects to their industrial employment.

ENGG361 Engineering Management  6cp
Spring  Wollongong  On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Case study report; examination, tutorial papers, tutorial presentation
Subject Description: This subject identifies and examines the economic, financial and statutory basis for decisions required in the evaluation of proposed engineering projects, and in the financial management of engineering projects and operations. It provides a brief introduction to the foundations of modern quality management and to statistical quality control methods relevant to engineering operations. It also provides an introduction to the law of contracts and to the evaluation and management of engineering contracts.

Subject Objectives: After satisfactory completion of ENGG351 the students will be able to describe the managerial issues involved in the engineering functions of an organisation, and in the initiation, planning and control of engineering projects. They will understand the methods of evaluating the feasibility of an engineering project and of comparing alternative proposals for attaining engineering objectives and will be able to carry out example calculations in these areas. They will be able to interpret balance sheets and profit-and-loss accounts and describe and provide examples of accounting methods used in the financial control of engineering operations and projects, including cost control. They will understand the legal and managerial issues involved in the preparation, evaluation and administration of engineering contracts. Finally, they will have a basic understanding of modern quality management and the use of appropriate logical and statistical quality control methods in engineering.
ENGG371 Scholars Research Project 3  6cp

Autumn  Wollongong  On Campus
Spring  Wollongong  On Campus

Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: Students must be enrolled in the Engineering Scholars Program.
Exclusions: none
Assessment: Research proposal, seminar presentation, progress report and final report.

Subject Description: The subject introduces students to specific areas of research in the field of Engineering. Topics will be negotiated based on the current activities of various research units linked to the Faculty of Engineering and the interests of the student. Students will join a particular project and undertake certain tasks under the supervision of a designated staff member. Students are required to undertake literature reviews, collect and analyse data and report on their findings to the research team. The research will include experience in an engineering laboratory and/or computer work.

Subject Objectives: 1. Develop a research proposal, supported by initial review of existing knowledge. 2. Conduct a thorough review of literature. 3. Design an experiment/computer program to examine an engineering research problem. 4. Present their work. 5. Write a comprehensive research report.

ENGG452 Thesis A  12cp

Autumn  Wollongong  On Campus
Annual  Wollongong  On Campus
Spring  Wollongong  On Campus

Contact Hours: information unavailable
Pre-requisites: Completion of 120cps
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Reports: objectives i to iii Seminar: objective vi Manuscript: objectives i to vi

Subject Description: All students must complete a 12 credit point thesis (ENGG452) normally over a period of two sessions - though Scholars Program students may elect to take ENGG453. Students are expected to spend at least 336 hours on the 12 credit point thesis. Students commencing the thesis mid year enrol in ENGG456 and ENGG457. The thesis is a core element of the degree in each engineering course. The knowledge and skills acquired in the design, experimentation, analysis, management and communications aspects of the course are brought together in an individual project undertaken by the student under the guidance of an academic supervisor. Individual disciplines will advise further requirements at the start of the thesis.

Subject Objectives: On completion of this subject(s) a student will be able to: (i) define a problem; (ii) retrieve and analyse previous work on related problems; (iii) formulate methods for problem solution; (iv) plan, design and construct an experimental or theoretical procedure where appropriate; (v) collate and evaluate findings; (vi) communicate conclusions and solutions verbally and in writing.

ENGG453 Thesis B  18cp

Annual  Wollongong  On Campus
Spring  Wollongong  On Campus
Autumn  Wollongong  On Campus

Contact Hours: information unavailable.
Pre-requisites: Completion of 120cps
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Reports: objectives i to iii Seminar: objective vi Manuscript: objectives i to vi

Subject Description: As an alternative to ENGG452, subject ENGG453 (18 credit points) may be taken by students in the Engineering Scholars program, or by other high achieving students with the permission of the Associate Dean of Engineering. A student electing to take ENGG453 will undertake a longer period of work and complete a longer thesis. Students are expected to spend 504 hours on the 18 credit point thesis. The thesis is a core element of the degree in each engineering course. The knowledge and skills acquired in the design, experimentation, analysis, management and communications aspects of the course are brought together in an individual project undertaken by the student under the guidance of an academic supervisor. Individual disciplines will advise further requirements at the start of the thesis.

Subject Objectives: On completion of this subject(s) a student will be able to: (i) define a problem; (ii) retrieve and analyse previous work on related problems; (iii) formulate methods for problem solution; (iv) plan, design and construct an experimental or theoretical procedure where appropriate; (v) collate and evaluate findings; (vi) communicate conclusions and solutions verbally and in writing.

ENGG454 Professional Experience  0cp

Spring  Wollongong  On Campus
Autumn  Wollongong  On Campus

Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: A written report (which is to be submitted to the coordinator before 5.00pm on the Friday of week two, of the session immediately following the period of employment).

Subject Description: As a requirement for the award of the degree of Bachelor of Engineering, students are required to obtain at least 12 weeks approved professional experience in a relevant industry during the course and submit a report to the satisfaction of the Discipline Directors of Studies. It is preferable that candidates undertake this requirement during the summer recess, between the third and fourth years of the BE degree. Exemption from the requirement will be given to a student who has passed one or more of the Professional Option subjects. Refer to Discipline Directors' of Studies for details.

Subject Objectives: The objectives of undertaking this experience are to: (i) expose the student to an industrial/professional environment in order to appreciate the various activities associated with engineering in practice; (ii) allow the student to observe and undertake tasks in practical aspects of investigations, design and construction of engineering works as a complement to theoretical studies; (iii) instil confidence in the student to take up positions that require responsibility, motivation, decision making and communication with other people in the workplace; (iv) satisfy requirements for the degree by professional bodies such as the Institution of Engineers, Australia


Subject Descriptions

**ENGG455 Professional Option 4** 6cp

- **Annual:** Wollongong
- **Contact Hours:** information unavailable
- **Pre-requisites:** none
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none

**Assessment:** A work plan, a 4000 word report and a formal seminar presentation. All submitted material must be certified by a professional supervising engineer.

**Subject Description:** This subject is for students currently in approved full-time employment and enrolled in a part-time study program. This subject will normally be taken in Stages 3, 4 or 5 of the BE Program or in Years 2 or 3 of the BTech program. Students must seek approval to enrol in this subject from their Director of Studies. Approval will be granted to students who can demonstrate that their employment provides appropriate experience and training as part of their degree program. Approval will not be granted for work that involves essentially trivial/routine tasks or that is not directly related to the discipline of engineering relevant to the students' program.

**Subject Objectives:** On satisfactory completion of this subject students should be able to: (i) maintain a professional diary; (ii) write a technical report detailing their activities during their employment; (iii) critically evaluate the activities carried out during the period of employment; (iv) report on the application and relevance of University subjects to their industrial employment.

**ENGG456 Thesis A - Part 1** 6cp

- **Spring:** Wollongong
- **Contact Hours:** information unavailable
- **Pre-requisites:** Completion of 120cps
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none

**Assessment:** Reports: Objectives i to iii Seminar Manuscript: Objectives i to vi

**Subject Description:** On completion of this subject(s) a student will be able to: (i) define a problem; (ii) retrieve and analyse previous work on related problems; (iii) formulate methods for problem solution; (iv) plan, design and construct and experimental or theoretical procedure where appropriate; (v) collate and evaluate findings; (vi) communicate conclusions and solutions verbally and in writing.

**ENGG458 Thesis B - Part 1** 9cp

- **Spring:** Wollongong
- **Contact Hours:** information unavailable
- **Pre-requisites:** Completion of 120cps
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none

**Assessment:** Reports: Objectives i to iii Seminar Manuscript: Objectives i to vi

**Subject Description:** On completion of this subject(s) a student will be able to: (i) define a problem; (ii) retrieve and analyse previous work on related problems; (iii) formulate methods for problem solution; (iv) plan, design and construct and experimental or theoretical procedure where appropriate; (v) collate and evaluate findings; (vi) communicate conclusions and solutions verbally and in writing.

**ENGG459 Thesis B - Part 2** 9cp

- **Autumn:** Wollongong
- **Contact Hours:** information unavailable
- **Pre-requisites:** Completion of 120cps, ENGG458
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none

**Assessment:** Reports: objectives i to iii Seminar: objective vi

**Subject Description:** On completion of this subject(s) a student will be able to: (i) define a problem; (ii) retrieve and analyse previous work on related problems; (iii) formulate methods for problem solution; (iv) plan, design and construct an experimental or theoretical procedure where appropriate; (v) collate and evaluate findings.
Subject Description: As an alternative to ENGG452, subject ENGG453 (18 credit points) may be taken by students in the Engineering Scholars program, or by other high achieving students with the permission of the Associate Dean. A student electing to take ENGG453 will undertake a longer period of work and complete a longer thesis. Students are expected to spend 504 hours on the 18 credit point thesis. Students commencing the 18cp thesis mid year enrol in ENGG458 (and ENGG459 in the following session). The thesis is a core element of the degree in each engineering course. The knowledge and skills acquired in the design, experimentation, analysis, management and communications aspects of the course are brought together in an individual project undertaken by the student under the guidance of an academic supervisor. Individual disciplines will advise further requirements at the start of the thesis.

Subject Objectives: On completion of this subject(s) a student will be able to: (i) define a problem; (ii) retrieve and analyse previous work on related problems; (iii) formulate methods for problem solution; (iv) plan, design and construct an experimental or theoretical procedure where appropriate; (v) collate and evaluate findings; (vi) communicate conclusions and solutions verbally and in writing.

ENGG461 Project Management and Human Factors in Engineering 6cp

Autumn Wollongong On Campus

Contact Hours: 42.

Pre-requisites: ENGG361 or ENGG351 Engineering Management

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Final examination, quizzes, assignments partly based on case studies - to be shared between all objectives, but concentrating on iii, iv and v.

Subject Description: This subject complements the business-oriented and other topics covered in Engineering Management with additional aspects of engineering management which every engineering student should know and be prepared to put into practice on entering his/her professional career. Topics dealt with include: Project Management - (incl. resource allocation, costing, scheduling, work packaging, risks, etc.); Total Quality Management; Quantitative Management Techniques; Human Relations; Engineers Ethics and Controversy; Engineers as Consultants/Experts; Accidents and Risk; Engineers and Industrial Relations; Occupational Health and Safety; Maintenance Management; and Innovation Management.

Subject Objectives: On successful completion of this subject students should have an understanding and working knowledge of all the major aspects of engineering management including: (i) the important concepts of modern management theory and practice; (ii) professional and social responsibilities; (iii) human and behavioural aspects; (iv) modern engineering management tools and techniques; (v) the principles of total quality management.
CIVIL ENGINEERING

CIVL196 Engineering Computing I 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments: objectives i - iv Mid-Session examination: objectives i and ii One 2 hour final examination: objectives i - iv
Subject Description: Operating Systems - understand the essentials of WINDOWS Operating System; Spreadsheets - solving engineering problems using EXCEL, preparing reports, customising tables and graphs. Generalising and programming in EXCEL with Visual Basic Programming Language - introduction to computer programming using MATLAB, scalar and vector variables, assignment statements, program loops, program branches, sub-programs, input and output files, graphics.
Subject Objectives: On successful completion of this subject students should be able to: (i) use WINDOWS Operating System (ii) solve numerical problems in engineering using EXCEL spreadsheet software (iii) apply Visual Basic programming to EXCEL spreadsheets (iv) write programs using MATLAB.

CIVL245 Construction Materials 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: One 2 hour final examination: objectives i to iii Laboratory work: objective iv Assignments: objectives i to iii
Subject Description: The subject is designed to introduce the properties and use of the more common materials in modern construction practice. Topics will include: Concrete - Properties of concrete; structure and composition; cements; mix design; durability; high performance concrete; concrete manufacture Steel - Properties of steel with particular reference to brittle fracture, fatigue, corrosion and fire damage Alternative materials - timber; masonry; polymers; aluminium; composites.
Subject Objectives: On successful completion of this subject students should be able to: (i) describe engineering properties of concrete, steel and other materials related to their use in construction; (ii) assess the significance of environmental factors on the behaviour and durability of concrete and steel; (iii) formulate engineering solutions to problems associated with the use of concrete, steel and other materials; (iv) prepare reports on practical exercises relevant to the manufacture and properties of concrete.

CIVL311 Structural Design 1 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Design projects/tutorial assignments: objectives i to iv 1 hour mid-session examination: objectives i to iv 2 hour final examination: objectives 1 to iv
Subject Objectives: At the successful completion of this subject students should be able to: (i) calculate dead and live loads for structures; (ii) apply the concepts of limit states design for structural elements; (iii) analyse and design reinforced concrete, beams, one way slabs and columns; (iv) analyse and design steel beams, columns and trusses.

CIVL314 Structural Design 2 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: CIVL311 Structural Design 1
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Design Projects/Tutorial Assignments: objectives i to iii 2 hour Final Examination: objectives i to iii
Subject Description: This course will consider an introduction to wind and seismic loads, reinforced concrete structures including the serviceability and strength design of reinforced concrete two way slab and flat plate for multistorey buildings together with reinforced concrete footings and retaining structures. An introduction to the design of prestressed concrete beams for serviceability and strength for both buildings and bridges. Case studies of multistorey building frames.

Subject Objectives: On successful completion of this subject students should be able to: (i) analyse and design reinforced concrete two ways, flat plate and flat slab systems; (ii) analyse and design reinforced concrete footings and retaining walls; (iii) analyse and design fully and partially prestressed concrete beams.

CIVL322 Hydraulics and Hydrology 6cp
Spring Wollongong On Campus
Contact Hours: 56.
Pre-requisites: NONE
Co-requisites: ENGG252 - Engineering Fluid Mechanics
Restrictions: none
Exclusions: none
Assessment: 2 hour Final Examination: objectives i to iii Mid-Session Quiz: objectives i and ii Laboratory reports and projects: objectives iii and iv

Subject Description: Open Channel Hydraulics - uniform flow; gradually varied flow; changes in channel cross section; hydraulic structures; unsteady flow. Flood Hydrology - data collection and analysis; flood frequency; rainfall intensity-frequency-duration relationships; unit hydrograph; design flood estimation; flood routing in rivers and storage reservoirs. Pipeline and pumping systems - pipe networks; water distribution systems; pump characteristics; pressure surges.

Subject Objectives: On successful completion of this subject students should be able to: (i) understand the basic principles of open channels hydraulics, flood hydrology and pipeline and pumping systems; (ii) identify the significant factors which must be considered when analysing these topics; (iii) apply analytical techniques to solve problems in hydraulics and hydrology; (iv) design channels and channel structures, estimate design floods, and design pipeline and pumping systems.

CIVL352 Structures 1 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ENGG251 - Mechanics of Solids
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to iii 1 hour mid-session examination: objectives i to iii Other assignments may be taken into consideration: objectives i to iii


Subject Objectives: On successful completion of this subject students should be able to: (i) analyse simple truss and frame structures for internal actions; (ii) recognise statically determinate and indeterminate structural systems; (iii) appreciate how the analytical methods can be applied in the design process in later subjects.

CIVL361 Geomechanics 1 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to iv

Subject Description: Soils and rocks - differences and similarities; cohesionless and cohesive soils; behaviour of intact and jointed rock masses; weight-volume relationships; particle size distribution; index properties of soils; soil classification; soil compaction and compressibility; mechanical properties of rock. Some topics will be presented in a laboratory environment. Pore water pressures and effective stress concept; permeability of soil and hydraulic properties of rock masses; groundwater flow; seepage theory; flow nets. Shear strength of soils and rock masses, total and effective stress parameters, Mohr-Coulomb criterion; Hoek and Brown failure; sliding on planes of weakness. Application of elastic theory for calculating stresses and displacements within soil or rock masses. Stability analysis of soil and rock slopes; stabilisation methods.

Subject Objectives: On successful completion of this subject students should be able to: (i) identify the basic principles and factors controlling the behaviour of soils and rocks; (ii) apply simplified solutions to geotechnical and mining problems including ground control; (iii) apply elastic theory for the determination of stresses for simple geotechnical problems; (iv) identify key assumptions in the development of theories and in the solution of practical problems; (v) understand and select the appropriate procedures for laboratory testing, and interpret the results in relation to the field practice.

CIVL392 Engineering Computing 2 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: 56.
Pre-requisites: CIVL196 and MATH283
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to iv


Subject Objectives: On successful completion of this subject students should be able to: (i) understand the principles of numerical computations; (ii) solve basic numerical problems manually; (iii) use MATLAB software to solve numerical problems in engineering; (iv) develop the skills necessary to apply engineering commercial software.
Subject Descriptions

CIVL394 Construction 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to v Class test: objectives i to iii Tutorials or project reports: objectives i to v
Subject Description: The subject is designed to provide students with detailed knowledge of construction with regard to both surface and underground structures, including construction techniques, stability and maintenance aspects. The following subject material will be covered: Plant and equipment in Civil Engineering practice; Construction processes and quality control; Tunnelling in soft ground and rock; Coffers and caissons; Harbour works; Dewatering and grouting methods; Performance monitoring and observational design; underpinning and restoration techniques; formwork and scaffolding. The lectures and tutorials will be complemented with practical project work and a field trip.
Subject Objectives: On successful completion of this subject students should be able to: (i) demonstrate understanding of fundamental construction principles and methods; (ii) ability to identify the probable construction difficulties encountered in practice, and being able to select the optimum equipment and construction techniques for a given project; (iii) appreciate the inter-relations between the structural, geotechnical, hydraulic and environmental factors that govern construction solutions; (iv) recognise the limitations of theory when applied to actual design and construction schemes, and appreciate the relevance of performance monitoring during and after construction; (v) distinguish the difference in construction solutions between the new and innovative construction projects on one hand, and yet challenging renovation and reconstruction schemes on the other.

CIVL415 Structural Design 3 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: CIVL311 Structural Design 1 and CIVL314 Structural Design 2
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major design projects: objectives i to iv
Subject Description: This subject includes the design of some large steel, concrete, timber and mixed structures. Gravity and lateral load resisting systems for steel, concrete, timber and mixed construction frames for wind and earthquake loads. Advanced design considerations in steel and concrete structures. Implications of fire and corrosion for steel structures, and creep and shrinkage effects in concrete structures. Advanced reinforced concrete design including shear walls, deep beams and pile caps. Integrated topics may include the design of transmission towers, large industrial buildings, multistorey buildings, carparks or other structures which enable integration of the concepts of structural design and construction.
Subject Objectives: On successful completion of this subject students should be able to: (i) undertake detailed design of structures; (ii) calculate important loading and secondary issues which affect the design of structures, such as fire, corrosion, creep and shrinkage; (iii) develop conceptual designs for building structures; (iv) quantify labour and construction issues and the concept of total structural costs.

CIVL444 Civil Engineering Design 6cp
Spring Wollongong On Campus
Contact Hours: 70
Pre-requisites: CIVL361 Geomechanics 1, CIVL311 Structural Design 1, CIVL311 Hydraulics and Hydrology
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: No formal examination will be held. Submitted design work and assignments will be assessed covering all objectives. Site visits may be arranged.
Subject Description: Major design, which will cover an integrated project incorporating some geotechnical, hydraulic, structural and transport engineering.
Subject Objectives: On successful completion of this subject students should have: (i) gained experience in conceptual design thinking incorporating a systems approach; (ii) gained the ability to break down complex problems into smaller, more readily handled components; (iii) gained experience in working in design teams and accepting responsibilities; (iv) focused significant components of prior learning into a large project.

CIVL454 Structures 2 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: CIVL352 Structures 1
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to iii 1 hour mid-session examination: objectives i to iii Laboratory reports: objectives iv Other assignments may be taken into account: objectives i to iii
Subject Description: Ultimate load analysis of beams, plates, slabs and frames in steel and concrete. Composite beams and columns. Vibrations due to earthquake, wind, and water. Dynamics of single degree of freedom systems.
Subject Objectives: On successful completion of this subject students should be able to: (i) understand the structural behaviour of more complex structural systems subject to static forces; (ii) understand the response of simple structures to dynamic forces; (iii) gained experience in testing structural elements and simple systems; (iv) carry out laboratory tests and interpret results.

CIVL457 Structures 3 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CIVL352 - Structures 1
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i and ii 1 hour mid-session examination: objective i Designated tutorial exercises will be assessed: objectives i and ii
Subject Description: Elementary structural concepts using matrix algebra. Structural assemblies. Finite element analysis for one, two and three dimensional problems. Computer applications in statics, stability and dynamics.
Subject Objectives: On successful completion of this subject students should be able to: (i) understand and use the systematic order of matrix algebra to establish the equations of structural analysis for subsequent solutions by computer; (ii) understand the theoretical basis for structural modelling, using the finite element method.
CIVL462 Geomechanics 2 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: CIVL361 - Geomechanics 1
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to iv Class tests/assignments: objectives i to iv
Subject Description: One-dimensional theory of consolidation, primary and secondary consolidation; normally consolidated and over consolidated soils; settlement analysis. Relationship between principal stresses at failure, importance of drainage conditions in soils, fully undrained conditions for saturated soils; drained and undrained shear strength of cohesive soils, behaviour of partially saturated soils. Overburden and lateral stresses, active and passive pressures, Rankine's earth pressure theory, Coulomb's wedge theory, geotechnical aspects of retaining walls, drainage of backfill. Bearing capacity of foundations; shallow footings and rafts, pile foundations, contact stress and subgrade reaction; use of elastic theory for stress and settlement calculation in soils and rocks. Unconfined seepage through earth structure, seepage control in dams, design of filters.
Subject Objectives: On successful completion of this subject students should be able to: (i) identify the key principles and factors controlling the mechanical behaviour of soils with particular reference to drainage conditions; (ii) develop and apply simplified solutions to geotechnical problems encountered in foundations and retaining structures; (iii) understand principles concerning seepage through dams and its control; (iv) identify key assumptions in the development of theories and in the solution of practical (field) problems; (v) understand and select the correct procedures for laboratory testing and interpret the results in relation to the field practice.
CIVL463 Geomechanics 3 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CIVL462 - Geomechanics 2
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to iii Class tests/assignments: objectives i to iii
Subject Description: Models of soil behaviour, stress paths in soil mechanics, total and effective stress paths. br Stress strain behaviour of different types of soil under drained and undrained conditions; strain-softening; peak, softened and residual shear strength of cohesive soils; pore pressure co-efficients A and B and their use in practical problems. br Soil behaviour under earthquake conditions, the phenomenon of liquefaction br Comparison of laboratory and field testing for geotechnical investigation; uncertainties in geomechanics; Analysis of cantilever and anchored sheet piles, analysis of strutted excavations.
Subject Objectives: On successful completion of this subject students should be able to: (i) understand the importance of stress paths in soil mechanics and the real stress-deformation behaviour of soils under static and seismic conditions (ii) identify the relative merits and shortcomings in the use of different methods of soil exploration and testing (iii) understand the nature and significance of uncertainties in geomechanics.
CIVL487 Traffic Engineering 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Nil
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to iv Other short examinations and assignments may be taken into consideration: objectives i to iv
Subject Description: The subject is designed to provide students with detailed knowledge of traffic and transport engineering. The subject will cover traffic engineering systems, traffic flow theory, intersection capacity, traffic control devices, accident studies, traffic survey methods, traffic management, transport network models, and use of traffic simulation programs. All these roads and traffic designs are to comply with the requirements of the current Australian Standards and codes of practice. The subject will include a number of tutorials, computer applications and field work.
Subject Objectives: The primary objective of this subject is to understand and appreciate traffic network as a single system and to comprehend the design of roads. After finishing the subject successfully, the student should be in a position to: (i) Carry out analysis of traffic networks; (ii) Be able to design and conduct a traffic survey; (iii) Design urban roads and intersections; (iv) Design traffic control devices.
Subject Descriptions

Assessment: Reports and assignments will be assessed: objectives i and ii No formal examination

Subject Description: Use of engineering applications software; structural and geotechnical mechanics, using finite element programs for stress, stability, and dynamic analysis. Discrete simulation. Depending on the availability of software other applications may be utilised. Problems will be selected from various areas in engineering.

Subject Objectives: On successful completion of this subject students should be able to: (i) develop and exercise the skills necessary to use engineering commercial software successfully; (ii) be exposed to a wide range of commercial software and be able to handle various engineering applications.

CIVL495 Public Health Engineering 6cp
Spring Wollongong On Campus

Contact Hours: information unavailable
Pre-requisites: ENGG252 - Fluid Mechanics
Co-requisites: none
Restrictions: none
Exclusions: none

Assessment: Two 1.5 hour class tests and two design and laboratory reports

Subject Description: The subject is designed to introduce public and environmental engineering concepts to civil engineers. The public health issues relating to natural resources, ecological concepts, water supply and sanitation problems, water and wastewater characteristics, water quality standards and guidelines, engineering management of water quality processes in rivers and lakes, stormwater and mine water pollution and control, design of water supply and treatment processes, design of wastewater collection, treatment, reuse and disposal systems, industrial water treatment and reuse will be discussed. The lecture components will be complemented with tutorials, laboratory classes and field trips.

Subject Objectives: On successful completion of this subject students should be able to: (i) Understand the civil engineer's role in the environment and will have the ability to solve engineering problems relating to water supply and sanitation. (ii) Understand water quality principles and parameters and be able to identify physico-chemical and biological characteristics of water and wastewater. (iii) Demonstrate understanding of engineering issues relating to water quality of rivers and catchments (iv) Design of water supply systems and treatment plants (v) Ability to undertake environmental engineering experiments and write a report (vii) Design of wastewater collection, treatment, reuse and disposal systems (viii) Demonstrate understanding of industrial water treatment and water reuse
Physics For the Environmental and Life Sciences A 6cp

Subject Objectives: Students will develop skills in interpreting natural phenomena in terms of the motion and interaction of bodies on macroscopic, microscopic and molecular scales. These skills will include: * the ability to apply basic physical theory to the world around them * a familiarity with current concepts and their historical development. * the ability to interpret information and formulate solutions to problems in terms of simple physical models using high school mathematics * the ability to communicate ideas and observations using written and pictorial methods * the ability to interpret instructions and carry out practical experiments safely and effectively

Physics For the Environmental and Life Sciences B 6cp

Subject Objectives: A student will develop skills in interpreting natural phenomena encountered in the environmental and life sciences in terms of electromagnetic, atomic and nuclear interactions. These skills will include: * the capability to apply basic physical theory to the world around them * a familiarity with current concepts and their historical development. * the ability to interpret information and formulate solutions to problems in terms of simple physical models using high school mathematics * the ability to communicate ideas and observations using written and pictorial methods * the ability to interpret instructions and carry out practical experiments safely and effectively

Fundamentals of Physics A 6cp

Subject Objectives: Students will develop an understanding of some of the fundamental laws of nature and their mathematical representation. This will provide them with skills in interpreting natural phenomena in terms of the motion and interaction of masses on macroscopic, microscopic and molecular levels. These skills will include: * the ability to apply basic physical theory to the world around them * the ability to interpret information and formulate solutions to problems in terms of simple physical models building on high school and 100-level mathematics * the ability to communicate ideas and observations using written and pictorial methods * the ability to interpret instructions and carry out practical experiments safety and effectively

Fundamentals of Physics B 6cp

Subject Objectives: Students will develop an understanding of some of the fundamental laws of nature and their mathematical representation. They will extend their understanding of macroscopic phenomena gained in PHYS141 to include the effects of stationary and moving charges and the role they play in electromagnetic and atomic and nuclear interactions. This understanding will extend beyond a theoretical development of ideas to include practical application i.e. optics, solid state phenomena, nuclear radioactivity. They will acquire skills which will include the ability to: * apply basic physical theory to the...
world around them * interpret information and formulate solutions to problems in terms of simple physical models building on high school and 100-level mathematics * communicate ideas and observations using written and pictorial methods * interpret instructions and carry out practical experiments safely and effectively.

PHYS143 Physics For Engineers 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: MATH142 or MATH188
Restrictions: none
Exclusions: none
Assessment: performance in assignments, practical work, tests and end of session examinations.

Subject Description: Vectors and their applications; charge and matter; electric field; Gauss' Law; electric potential; capacitance; current and resistance; emf and circuits; magnetic fields; Ampere's Law; Faraday's Law; inductance; waves; reflection and refraction; interference; diffraction; polarization; optical instruments; quantum physics; waves and particles; atomic physics; the Bohr atom.

Subject Objectives: Students will develop an understanding of some of the fundamental laws of nature and their mathematical representation. This will provide them with skills in interpreting natural phenomena in terms of the motion and interaction of masses on macroscopic, microscopic and molecular levels. These skills will include the ability to: * apply basic physical theory to the world around them * interpret information and formulate solutions to problems in terms of simple physical models building on high school and 100-level mathematics * communicate ideas and observations using written and pictorial methods * interpret instructions and carry out practical experiments safely and effectively.

PHYS205 Advanced Modern Physics 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: PHYS141 and PHYS142
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: determined from the assessment of each section separately. Final assessment is determined by a weighting factor based on the contact hrs of each section. Based on performance in homework assignments, tests, laboratory work and sessional exams. Students seeking to enrol in 200-level physics are advised to speak with the Head of Dept. of Physics.

Subject Description: Special relativity; Lorentz transformations; quantum effects; atomic structure; wave particle duality; black body radiation; photo-electric effect; bremsstrahlung; Compton effect; X-rays; de Broglie hypothesis; particle diffraction; quantum mechanics; wave packets; uncertainty principle; Schrodinger Equation; correspondence principle; particle in a box; wave functions of the hydrogen atom; nuclear particles, decay laws; binding energy; nuclear reactions; fission and fusion; statistical distribution functions; energy bands; impurity states; p-n junction and transistor.

Subject Objectives: Upon successful completion of this subject a student will: * have an appreciation of the historical observations which could not be explained by 19th Century physics. * be able to describe the new concepts which provide the basis for our modern understanding of the physical universe. * be able to make elementary calculations relating to these concepts. * have a sound foundation for understanding more sophisticated concepts developed in higher level subjects for which this subject is a prerequisite.

PHYS206 Project in Physics 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 84
Pre-requisites: Normally performance in 100-level Physics and Mathematics subjects at the level of distinction or better
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assessment is based on satisfactory written progress reports during the project and a written description on completion.

Subject Description: Option 1 and Option 2 Dbl (A)/Aut/Spr

Subject Objectives: Option 1: After successfully completing this subject, the student will * be able to design and construct experiments appropriate to undergraduate physics programs and to those for use in practical classes in High Schools. * be able to document the procedure required for carrying out such experiments. Option 2: After successfully completing this subject, the student will * have gained experience in working as part of a small research group * be able to keep working records of the progress of experiments * have gained a variety of basic skills related to the specific area of research in which they have been involved.

PHYS215 Vibrations, Waves & Optics 6cp
Spring Wollongong On Campus
Contact Hours: 6 hrs/week.
Pre-requisites: PHYS141 and PHYS142
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: determined from the assessment of each section separately. Final assessment is determined by a weighting factor based on the contact hrs of each section. Based on performance in exams. Students seeking to enrol in 200-level Physics are advised to speak with the Head of Dept. of Physics.

Subject Description: Simple harmonic motion; two body oscillations; damped harmonic oscillator; power dissipation; quality factor; driven harmonic oscillator; superposition principle; Fourier analysis; Huygens' principle; reflection and refraction; wave motion; sinusoidal waves; group velocity; dispersion; Young's experiment; interference; coherence; Stokes' treatment of reflection and refraction; interference; standing waves; Fabry-Perot interferometer; Michelson interferometer; Fourier spectroscopy; Fresnel diffraction; Fraunhofer diffraction; resolving power; diffraction grating; holography; polarization of waves; double refraction; interference of polarized light.

Subject Objectives: On successful completion of this subject a student will: * have an analytical and practical understanding of the relationship between vibrations and waves. * be able to apply this understanding to explaining mechanical, electrical and optical phenomena.
PHYS225 Electromagnetism and Optoelectronics 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: PHYS141, PHYS142, MATH201
Co-requisites: NONE
Restrictions: none
Exclusions: none
Assessment: Mid-Session Test 20%; Sessional Examination 40%; Laboratory Assignments 40%
Subject Description: Electricity and Magnetism: (28 hrs lectures, 7 hrs tutorials).
Subject Objectives: On successful completion of this subject a student will: * have a firm understanding of the fundamental principles underlying commonly used electrical concepts relating to electrostatics, electrodynamics, magnetostatics and magnetodynamics. * be able to derive Maxwell's equations and apply them to intermediate level problems.

PHYS230 Intermediate Physics 12cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 84.
Pre-requisites: PHYS141 and PHYS142 or PHYS144 and PHYS145
Co-requisites: MATH284 or MATH201 and MATH202
Restrictions: none
Exclusions: none
Assessment: Assessment of 200-level is determined from each section separately. Final assessment determined by weighting factor based on contact hrs of section. Assessment based on performance in homework assignments, tests, lab work and sessional exams. Students seeking to enrol in 200-level Physics are advised to speak with the Head of Dept. of Physics.
Subject Description: Content: as for the subjects PHYS205, PHYS215 and PHYS225
Subject Objectives: information unavailable

PHYS233 Introduction to Environmental Physics 6cp
Autumn Wollongong On Campus
Contact Hours: 42.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Exam, Assignments and Fieldwork
Subject Description: This subject is based on a sequence of modules, each of which introduces a key environmental physics theme illustrated using case studies. Students will be introduced to simple systems modelling utilising spread sheet analysis. The key areas studied are: (i) Atmospheric Gases and Vapours (ii) Thermal Radiation and the Environment (iii) Hydrodynamics of Air, Water and Particulates (iv) Hydrolgy of Soils and Porous Materials
Subject Objectives: Successful students will be able to: (i) demonstrate an understanding of, and utilise physical concepts in environmental modelling (ii) mathematically model a range of simple environmental systems using spreadsheet analysis and other techniques (iii) conduct simple measurements associated with solar radiation, humidity, temperature and other environmental variables (iv) be able to critically analyse various physical impacts on the atmosphere, oceans and biosphere

PHYS235 Mechanics & Thermodynamics 6cp
Autumn Wollongong On Campus
Contact Hours: 84.
Pre-requisites: PHYS141 and PHYS142
Co-requisites: MATH284 or MATH201 and MATH202
Restrictions: none
Exclusions: none
Assessment: Assessment of 200-level is determined from each section separately. Final assessment determined by weighting factor based on contact hrs of section. Assessment based on performance in homework assignments, tests, lab work and sessional exams. Students seeking to enrol in 200-level Physics are advised to speak with the Head of Dept. of Physics.
Subject Description: Vector calculus; kinematics of a particle; dynamics of a particle; moving reference systems; central forces; dynamics of a system of particles; mechanics of rigid bodies; Lagrange’s Equations. Thermodynamic systems; equations of state; work; the first law of thermodynamics and its consequences; the second law of thermodynamics; entropy; combined first and second laws; thermodynamics potentials; applications of thermodynamics; kinetic theory of the ideal gas; molecular velocity distribution.
Subject Objectives: Mechanics: After successfully completing the subject a student should be able to: * Solve problems at the intermediate level using the Newtonian, Lagrangian and Hamiltonian formalisms. Thermodynamics: After successfully completing the subject a student should be able to: * Obtain the properties of a thermodynamic system from experimentally determined macroscopic properties of the system. * Determine the microscopic properties of thermodynamic systems using kinetic theory and statistical mechanical methods. * Have developed skills in partial differentiation. the solution of differential equations, integration and statistics.

PHYS255 Radiation Physics 6cp
Spring Wollongong On Campus
Contact Hours: 84.
Pre-requisites: PHYS131 and 132 or PHYS141 and 142
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: sessional written examination, performance in laboratory, and sessional report on ANSTO visit.
Subject Description: Different types of radiation; Interaction between Radiation and Matter; Nuclear Reactor & Particle Accelerator based application in biology, medicine and physics; Nuclear reactions and the production of radioisotopes; Nuclear instrumentation; Application of radio-isotopes in biology, chemistry, medicine and physics; Use of neutrons in biology, chemistry, physics and in industry.
Subject Objectives: A successful student will be able to: * Undertake observations involving nuclear instrumentation and ionising radiations and apply basic analysis techniques. * Analyse and solve practical problems associated with radiation physics. * Assess radiation hazards and implement safety procedures for handling ionising radiation. * Discuss the application of nuclear physics to medical diagnosis and therapy. * Communicate ideas and findings, orally and in writing, to the professional and wider community and substantiate these with relevant examples in the field of radiation physics. In addition the student on completion of the subject must be: * Computer literate, with demonstrable skills in spreadsheet analysis in a laboratory context. * Creative, adaptive and flexible in their approach to applying physical principles to other disciplines.
PHYS295 Concepts of the Modern Universe 6cp
Spring Wollongong On Campus
Contact Hours: 56.
Pre-requisites: 24 credit points at 100-level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: performance in tests, written assignments and one 2 hr examination.
Subject Description: This course will illustrate the techniques used by astronomers and will attempt to give an understanding of the universe as we presently understand it. A trip to the University's Observatory will give the opportunity to observe the phenomena discussed. The development of astronomy, the planets, the formation of the solar system; the sun as a star; the message of starlight, the visible stars; the birth and death of stars; telescopes, big and small; the milky way, the universe of galaxies; NOTE: No special ability in Mathematics or Physics is required for this subject.
Subject Objectives: At the end of the course successful students should be able to: * Describe the instruments and techniques (and their limitations) used in astronomy. * Link the development of instrumentation to the progress in our understanding of the Universe. * Make and record simple observations of astronomical phenomena. * Describe the techniques used to classify astronomical sources. * Explain how astronomical distances are estimated and appreciate the limitations of each method. * Develop physical explanations for the appearance and behaviour of astronomical sources. * Describe how astronomical objects (stars, galaxies) evolve. In addition the student on completion of the subject must be able to * Communicate ideas and findings, orally and in writing, to the professional and wider community and substantiate these with relevant examples in the field of astronomy.

PHYS305 Quantum Mechanics 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: PHYS205 or PHYS230
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Laboratory work 35%, homework assignments 15% end of session examination 50%
Subject Description: Lectures Applications of Schrödinger's equation; operators in co-ordinate and momentum space with applications; angular momentum operators, uncertainty relations for angular momentum operators; spherically symmetrical potentials; Stern-Gerlach experiments; topics in spectroscopy; rigid rotator, molecular spectra, hydrogen atom, normal Zeeman effect, spin, spin-orbit interaction, vector model for addition of angular momentum, anomalous Zeeman effect. L-S and J-J coupling, excited state of helium, selection rules, hyperfine structure; periodic table; time independent perturbation theory. Stark effect; matrix representations of operators and applications. Experimental : Selection of experiments appropriate to the subject.
Subject Objectives: After successfully completing the subject, the student will * have a fundamental knowledge of the mechanics of particles on the atomic scale. * be conversant with the developments leading to modern quantum theory. * be able to calculate, in detail, the properties of the states of several simple systems including their energies. * be able to determine the changes in atomic states under the effect of static external perturbations.

PHYS306 Intermediate Project in Physics 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 64.
Pre-requisites: Normally performance in 200-level Physics and Mathematics subjects at the level of distinction or better
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assessment is based on satisfactory written progress reports during the project and a written description on completion.
Subject Description: Option 1 and Option 2 Dbl (A)Aut/Spr
Subject Objectives: Option 1: After successfully completing this subject, the student will * be able to design and construct experiments appropriate to intermediate undergraduate physics programs. * be able to document the procedure required for carrying out such experiments. Option 2: After successfully completing this subject, the student will * have gained experience in contributing to the work of a small research group * be able to keep detailed working records of the progress of experiments * have gained a variety of intermediate practical and analytical level skills related to the specific area of research in which they have been involved. * be able present a short seminar on the research in which they were engaged.

PHYS325 Electromagnetism 6cp
On Campus
Contact Hours: 64.
Pre-requisites: PHYS225 or PHYS230
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: laboratory work ( 35%), end-of-session examination ( 30%), homework assignments (20%) and an essay (13%).
Subject Description: Maxwell's equations; boundary conditions; wave propagation in free space; free and bounded media and plasmas.
Subject Objectives: On successfully completing this subject, students will: * understand the fundamentals of the generation, propagation and properties of electromagnetic radiation and its interaction with matter and be versatile in the use of Maxwell's equations. * have gained practical experience in the transmission of electromagnetic radiation and in interfacing digital computers to experimental apparatus for data collection and processing.

PHYS335 Classic Mechanics 6cp
On Campus
Contact Hours: 64.
Pre-requisites: PHYS235
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: End of session examination and tutorial assignments 66% and practical,34%.
Subject Description: Vectors and matrices; the special theory of relativity; motion in a non-inertial frame; dynamics of rigid
bodies; Euler's Angles; Euler's Equations and applications; small oscillations; normal modes; Lagrange's equations of motion; dispersion.

Subject Objectives: At the conclusion of this subject students will be able: * to apply theory relating to relativity and motion of bodies in non inertial reference frames; * to solve problems relating to the motion of rigid bodies and small oscillations in coupled systems and strings. * to apply generalised methods of problem solving in mechanics.

PHYS365 Detection of Radiation: Neutrons, Electrons and X Rays 6cp
Spring Wollongong On Campus
Contact Hours: 64.
Pre-requisites: PHYS205 or PHYS230 or PHYS255
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 3 Assignments, Labs and Final Exam
Subject Description: Cylindrical and parallel plate ionisation chambers and their optimised design. Absolute dose calibration protocols and the relative dose concept. Semiconductor detectors and their response to radiation. Thermoluminescent dosimeters - their properties, types and advantages. Film dosimetry - the principles of radiation film exposure and non-linearity of film response, EPR dosimetry and chemical dosimetry.
Subject Objectives: After successfully completing this subject, students will be able to use different types of particle detectors and determine nuclear radiation doses and depth dose profiles. They will also be able to use the techniques which give knowledge of electron and photon interaction in biological tissues.

PHYS366 Physics of Radiotherapy 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Written examination, Assignments, Practical
Subject Description: This subject is intended to lead to an understanding of the techniques involved in diagnostic and therapeutic uses of radioactive isotopes in medicine. Topics covered will include: - A review of homeostasis and cellular functions, epidemiology of disease; abnormal cell growth; benign and malignant tumours; cell kill; introduction to particle accelerators; medical linear accelerators; the interaction properties of X-rays and electrons; clinical radiotherapy, linear accelerator x-ray and electron beam properties; the radiotherapy computer planning process, x-ray modelling methods and brachytherapy and radiosurgery.
Subject Objectives: After successfully completing this subject, students should be able to: (i) summarise the processes giving rise to abnormal cell development, (ii) to discuss the effects of various treatments for malignant tumours at a cellular level, (iii) determine the most effective dosage of various radiations for different therapeutic purposes, (iv) computer-model the process including the design of radiation shielding and sequel of the treatment, (v) use different types of particle detectors and determine nuclear radiation doses and depth dose profiles, (vi) apply techniques which give knowledge of electron and photon interaction in biological tissues.

PHYS375 Nuclear Physics 6cp
Spring Wollongong On Campus
Contact Hours: 63.
Pre-requisites: PHYS205 or PHYS230
Co-requisites: PHYS305 and PHYS385
Restrictions: none
Exclusions: none
Assessment: Assessment will involve performance in sessional examinations, laboratory work, tests and homework assignments in each separate section of the subject. The final assessment is determined using the weighted marks from each section. The weighting factor is based on the contact hours of each section.
Subject Description: Content as for PHYS395 Nuclear Physics Section and Solid State Section.
Subject Objectives: This subject is a shortened version of PHYS395 designed to fit the programs of single and joint majors in Physics. Its objectives are similar to those of PHYS395.

PHYS385 Statistical Mechanics 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: PHYS205 or PHYS230
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Laboratory work, 35%; homework assignments 15%; End of session examination 50%.
Subject Description: Review of thermodynamics, quantum statistical mechanics; sharply peaked distributions, ensembles; entropy and temperature; the chemical potential; Gibbs and Boltzmann factors - partition functions; fluctuations; pressure and thermodynamic identity; Boltzmann definition of entropy; identical particles - fermion and boson distribution functions; applications to electrons in metals; blackbody radiation and Debye theory of vibrations in solids; classical limit of the quantum distribution functions; monatomic ideal gas; Maxwell-Boltzmann velocity distribution; kinetic theory; transport processes.
Subject Objectives: After successfully completing the subject, the student will * have a fundamental knowledge of the behaviour of matter on a microscopic scale which will enable them to predict its macroscopic behaviour such as its thermodynamical properties. * be able determine the distribution of electrons amongst the energy states of metals, insulators and semiconductors.

PHYS390 Astro Physics 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: PHYS205 or PHYS230
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assessment will involve performance in sessional examinations, laboratory work, tests and homework assignments in each separate section of the subject. The final assessment is determined using the weighted marks from each section. The weighting factor is based on the contact hours of each section.
Subject Description: As for PHYS395 Nuclear Physics Section and Astrophysics Section.
Subject Objectives: After successfully completing this subject, students will have an extensive introductory knowledge of many of the phenomena in these various disciplines. They will be able to appreciate the manner in which the fundamentals of physics are applied to the derivative areas of astrophysics and solid state physics and understand the basis of our knowledge of the nucleus.

**PHYS396** Electronic Materials 6cp

Autumn  Wollongong  On Campus

**Contact Hours:** 42.

**Pre-requisites:** PHYS205

**Co-requisites:** PHYS305

**Restrictions:** none

**Exclusions:** none

**Assessment:** Assignments, laboratory reports, exam.

**Subject Description:** The nature of electronic materials. Electrons in solids, band theory: insulators, conductors, semiconductors and superconductors. The free and nearly free electron theories. Electrical conductivity, Hall effect. Types of magnetic materials. Semiconductors - intrinsic, extrinsic, the hole, the p-n junction. Superconductors - phenomena, BCS theory. Production of semiconductors and superconductors, control of processing to achieve desired properties. Design and production of novel materials to achieve improved performance in electronic devices; modern applications

**Subject Objectives:** TBA

**PHYS401** Theoretical Mechanics & Electromagnetism 8cp

Autumn  Wollongong  On Campus

**Contact Hours:** 56.

**Pre-requisites:** The main programs in physics at 400-level are directed toward the Honours B.Sc qualification and BMedPhys. Full time Honours BSc students will normally enrol in PHYS405. Honours BMedPhys students will enrol in the Bachelor of Medical Physics program shown

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Assessment: two sessional examinations and assignments.

**Subject Description:** The main programs in physics at 400-level are directed toward the Honours B.Sc qualification and BMedPhys. Full time Honours BSc students will normally enrol in PHYS405. Honours BMedPhys students will enrol in the Bachelor of Medical Physics program shown

**Subject Objectives:** Students will have an extensive knowledge of several important phenomena in astrophysics. They will be able to appreciate the manner in which the fundamentals of physics are applied to the derivative areas of astrophysics and understand the basis of our knowledge of the universe. A topic that may be covered is radiative transfer. A student will be able to: set up the equation of radiative transfer for a wide variety of physical systems and solve it in simple cases; recognize the conditions of local thermodynamic equilibrium (LTE), non-LTE and population inversion; estimate the importance of scattering and absorption in a system. Nuclear Physics: Students will be able to: * Use partial waves for calculating the scattering cross section at low incident particle energies; use Born's approximation to calculate the reaction cross sections at high energy. * Use Fermi Gas Model to calculate energetics of an excited nucleli

**PHYS441** Astro- and Nuclear Physics 8cp

Spring  Wollongong  On Campus

**Contact Hours:** 56.

**Pre-requisites:** The main programs in physics at 400-level are directed toward the Honours B.Sc qualification and BMedPhys. Full time Honours BSc students will normally enrol in PHYS405. Honours BMedPhys students will enrol in the Bachelor of Medical Physics program shown

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** two sessional examinations and assignments.

**Subject Description:** This subject consists of the lecture content of Astrophysics and Nuclear Physics sections of PHYS405.

**Subject Objectives:** Astrophysics: Students will have an extensive knowledge of several important phenomena in astrophysics. They will be able to appreciate the manner in which the fundamentals of physics are applied to the derivative areas of astrophysics and understand the basis of our knowledge of the universe. A topic that may be covered is radiative transfer. A student will be able to: set up the equation of radiative transfer for a wide variety of physical systems and solve it in simple cases; recognize the conditions of local thermodynamic equilibrium (LTE), non-LTE and population inversion; estimate the importance of scattering and absorption in a system. Nuclear Physics: Students will be able to: * Use partial waves for calculating the scattering cross section at low incident particle energies; use Born's approximation to calculate the reaction cross sections at high energy. * Use Fermi Gas Model to calculate energetics of an excited nucleli

**PHYS444** Quantum Mechanics 8cp

Annual  Wollongong  On Campus

**Contact Hours:** information unavailable

**Pre-requisites:** The main programs in physics at 400-level are directed toward the Honours B.Sc qualification and BMedPhys. Full time Honours BSc students will normally enrol in PHYS405. Honours BMedPhys students will enrol in the Bachelor of Medical Physics program shown

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** two sessional examinations (45% each) and homework assignments (10%).

**Subject Description:** This subject consists of the lecture content of Quantum Mechanics section of PHYS405.

**Subject Objectives:** After successfully completing this course, students will be able to apply advanced mathematical techniques to problems dealing with phenomena which are understandable only if behaviour on a microscopic scale is considered.
PHYS446 Solid State Physics 8cp  
Annual Wollongong On Campus  
Contact Hours: information unavailable  
Pre-requisites: The main programs in physics at 400-level are directed toward the Honours B.Sc qualification and BMedPhys. Full time Honours BSc students will normally enrol in PHYS405. Honours BMedPhys students will enrol in the Bachelor of Medical Physics program shown  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Assessment: two sessional examinations.  
Subject Objectives: After successfully completing this subject, students will be able to apply the fundamental aspects of physics to problems relating to matter in the solid state.

PHYS451 Nuclear Medicine 8cp  
Annual Wollongong On Campus  
Pre-requisites: 24 cp of third year subjects from the BM Medical Physics program including PHYS375 and PHYS255  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: 2-3, Labs, Final Exam  
Subject Objectives: Upon completion of this subject student should be able to: * Demonstrate a detailed knowledge of nuclear medicine procedures in the following areas Central nervous system, Respiratory systems, Gastrointestinal systems, Skeletal systems, Positron emission tomography, Bone densitometry, Paediatric applications. * Demonstrate how to perform and interpret the results of both Non nuclear and Nuclear medical procedures in selected area * Describe the advantages and limitations of nuclear medicine.

PHYS452 Medical Imaging 8cp  
Annual Wollongong On Campus  
Pre-requisites: 24cp of third year subjects from the BM Medical Physics program including PHYS375  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Assignments, test and written examination 60%, Practical and / or project 40%  
Subject Description: Sources of diagnostic X - rays, computer tomography, instrumental set up, image definition, back projection, signal to noise, CT numbers, contrast, CT and radiotherapy. Nuclear magnetic resonances, Larmor frequency, basic imaging, slice selection, phase and frequency encoding, spin echoes, TE and TR relaxation times, mechanisms of contrast in MRI, multiecho imaging, multi slice imaging, fast imaging, flow imaging. MR angiography, 3D data acquisition, chemical shift imaging, contrast agents, image artifacts and distortion, localised spectroscopy, set up of a clinical MR scanner, safety aspects.  
Subject Objectives: Upon completion of this subject the student should be able to: * Describe the process of image digitising. * Describe PC based methods used in medical image manipulation. * Describe PC based image storage techniques. * Acquire, store and display 3 dimension data. * Discuss the technology behind and operational methods used in Computer Assisted Tomography, Magnetic Resonance Imaging and other medical imaging systems. * Apply nuclear radiation protection principles.

PHYS453 Radiobiology and Radiation Protection 8cp  
Annual Wollongong On Campus  
Pre-requisites: 24cp of third year subjects from the BM Medical Physics program including PHYS375  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Assignments, test and written examination 60%, Practical and / or project 40%  
Subject Description: Interaction of radiation with matter, molecular effects of radiation, cell kill, repair of injury, assays of cell survival, the effect of oxygen, effect of chemical and biological modifiers, cell kinetics, tumour cell kill, early and late responding normal tissues, radio biological models, four Rs of radiobiology, time as an important factor, clinical impact in radiotherapy, protons, neutrons and pions. The natural background of radiation, man made sources of radiation, genetic and somatic risks, risks of low dose exposure, quality factor, critical organs, concepts of radiation protection. ALARA limit values, open and closed sources of radiation, incorporation and bio kinetics of radionuclides, external sources of radiation, pregnancy and radiation, the role of the ICRP, legal aspects.  
Subject Objectives: Upon completion of this subject the student will be able to: * Discuss the various types of radiation and their effect on physical and biological materials. * Discuss the effects of ionizing radiation on genes, chromosomes, cell, tissues, macromolecules. * Discuss the prompt and late effects of radiation * Describe the Medical Radiation Departments various procedure of radiation protection * Outline the considerations which should be employed for the pregnant women. * Describe the codes of standard of national and international radiation councils.
Subject Descriptions

scanners. An overview of Medical Imaging Techniques; Radiography, Ultrasonics, NMR.

Subject Objectives: information unavailable

PHYS457 Research Project 24cp

Spring Wollongong On Campus
Autumn Wollongong On Campus
Annual Wollongong On Campus

Contact Hours: 84

Pre-requisites: 24 cp of third year subjects from the BMedical Physics or BSc (Physics)

Co-requisites: 24 cp of fourth year subjects from the BMedical Physics or BSc (Honours)

Restrictions: none

Exclusions: none

Assessment: A formal report on the research project is to be delivered in the Physics Department colloquia and a written report/thesis to be submitted in tenth week of spring session.

Subject Description: The student will be required to participate in a research program on some topic of physics under the supervision of one of the staff member. The student will have a choice of the following fields: Nuclear Medicine, Medical Imaging, Radiobiology, Radiation Protection, Diagnostic Radiology, Pathology and Imaging Physics, Astronomy, Solid State Physics. All the above research topics may not be available very year.

Subject Objectives: Information unavailable
ENVE220 Water Quality Engineering 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ENGG252 Engineering Fluid Mechanics
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour final examination: objectives i to v 1 hour mid-session quiz: objectives ii to iv Laboratory reports: objectives i to v
Subject Description: The subject is designed to introduce environmental engineering concepts at a fundamental level. The environmental problems and solutions relating to natural resources, ecological systems, water pollution, water quality processes in rivers and lakes, water supply and treatment processes, wastewater collection, treatment and disposal, water quality guidelines and other global environmental issues will be discussed. The lecture components will be complemented with tutorials and laboratory classes.
Subject Objectives: On successful completion of this subject students should be able to: (i) Understand the engineer’s role in the environment; (ii) Ability to identify physical, chemical and biological characteristics of water and wastewater; (iii) Understand natural purification processes including an oxygen balance model; (iv) Apply the concepts relating to water and wastewater treatment processes; (v) Understand engineering issues relating to global environmental problems; (vi) Knowledge of the operational aspects of potable water and municipal wastewater treatment plants.

ENVE221 Air and Noise Pollution 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour Final Examination: objectives i and iv Mid-session quiz: objectives ii to iv Laboratory reports and projects: objectives i to ii
Subject Description: Air Pollution - meteorology; atmospheric chemistry; air quality; sources of air pollution; effects of air pollution; dispersion modelling; control of air pollution. Noise Pollution - noise pollution legislation; sound power and intensity levels; noise from several sources; background noise effects; defining and measuring noise; weighting factors and equivalent noise levels; effect of noise on people; propagation of sound; noise control at source, during propagation and at receiver; design of noise barriers.
Subject Objectives: On successful completion of this subject students should be able to: (i) understand the basic principles of air and noise pollution; (ii) identify the significant factors affecting air and noise pollution; (iii) apply analytical techniques to solve problems in air and noise pollution measurement and control; (iv) design air and noise control devices.

ENVE311 Pollution Control and Cleaner Production 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ENVE220 Water Quality Engineering
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Project report: objective iv Tutorial/assignments: objective iii 2 hour mid-session examination: objectives i and ii 2 hour final examination: objectives i and ii
Subject Description: This subject is divided into two sections. The first section deals with unit processes design. In this section all the physico-chemical processes commonly used for water pollution control will be discussed in detail. In the second section two topics viz, industrial waste management and cleaner production will be introduced. Industrial waste management includes source identification, characterisation, segregation, treatment and disposal. It also includes design of various unit operations/processes for liquid waste treatment. Application of advanced processes in an industry for waste treatment, reuse and recycling, and final disposal of wastes, plus overall waste auditing of an industry will be illustrated using a case study.
Subject Objectives: On successful completion of this subject students should be able to: (i) design unit processes for water pollution control, for the given influent and effluent conditions; (ii) carry out a complete analysis of industrial wastes including source identification, characterisation, and segregation; (iii) apply principles of cleaner production in order to minimise the waste generated from an industry; (iv) carry out waste auditing processes for a given industry.

ENVE320 Environmental Engineering Design 1 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ENVE220 Water Quality Engineering
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 hour mid-session examination: objective ii 2 hour end of session quiz: objectives iii to iv Design reports: objective i to iv Field trip assessment: objectives i and iv
Subject Description: The subject is designed to introduce system design using unit processes encountered in environmental engineering. The subject will cover design concepts, detailed and advanced design of water supply and treatment systems, advanced solid -liquid separation processes, design of wastewater collection systems, design of advanced wastewater treatment plant design, ocean outfall systems, design of land based systems, network design. The subject also includes design of air pollution and control systems. The lecture components will be complemented with design classes and field trips.
Subject Objectives: On successful completion of this subject students should be able to understand the main principles relating to the design components of the following environmental systems: (i) Understand the design philosophy in environmental engineering (ii) Design conventional water and wastewater treatment plants including wastewater collection, reuse and disposal systems (iii) Network design land based treatment systems (iv) Design air pollution control systems.
ENVE211 Solid and Hazardous Waste Management 6cp  
Spring  Wollongong  On Campus  
Contact Hours: information unavailable  
Pre-requisites: none  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: Project report: objectives i to iv  
Tutorial/assignments: objectives ii to iv  
2 hour mid-session examination: objectives i to v  
2 hour final examination: objectives i to v  
Subject Description: This subject introduces fundamentals of solid and hazardous waste management. The content includes characterisation, collection, transportation, storage and final disposal of solid and hazardous waste. In the case of hazardous waste, additional topics of identification, classification, risk assessment, legislation and health hazards will be covered. Waste minimisation, reuse/recycle; stabilisation and volume reduction of hazardous waste are considered. Besides lectures and tutorial sessions, this subject includes field trips, laboratory classes and project work.  
Subject Objectives: On successful completion of this subject students should be able to: (i) design collection routes for municipal solid waste; (ii) carry out feasibility analysis and design of facilities for collection, transportation, storage and treatment of solid and hazardous waste; (iii) carry out a complete analysis of hazardous waste in terms of identification, classification and determination of harmful effects on humans and environment; (iv) carry out characterisation studies, identify opportunities for waste minimisation and recycle/reuse of solid waste; (v) design facilities for detoxification, stabilisation, volume reduction and final disposal of hazardous waste.

ENVE385 Environmental Engineering 8cp  
Autumn  Wollongong  On Campus  
Contact Hours: information unavailable  
Pre-requisites: MATH151 or MATH187 or MATH141 or equivalent  
Co-requisites: information unavailable  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable  
Subject Description: (a) Causes and control of air pollution, water pollution and noise pollution. (b) Experiments on water characteristics determination, water quality and flooding problems in urban areas; flood reduction using detention basins; computer modelling of urban stormwater structures; beach erosion and beach protection. Water Resources - the hydrologic cycle; distribution of the world's water; surface water resources; groundwater resources; computer models of catchment water balances; storage reservoir yield analysis. River Engineering - fluvial hydraulics; morphology of natural channels; erosion and sediment transport; re-naturalising streams; remediation of polluted rivers. Urban Stormwater Management - stormwater quality and flooding problems in urban areas; flood reduction using detention basins; computer modelling of urban stormwater systems.  
Subject Objectives: After successfully completing the subject, the students will have a basic understanding of chemical processes in environmental engineering as they pertain to aqueous and atmospheric environments and specifically: (i) the ability to understand the chemical interactions that influence speciation; (ii) the ability to conduct basic lab analyses of air and water samples; and, (iii) the ability to use principles of chemistry to design treatment systems.

ENVE411 Aqueous and Atmospheric Chemistry 6cp  
Autumn  Wollongong  On Campus  
Spring  Wollongong  On Campus  
Contact Hours: information unavailable  
Pre-requisites: CHEM214 Analytical and Environmental Chemistry  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: 2 hour final examination: objectives i and ii  
Mid-session quizzes: objective i and ii  
Tutorial assignments: objectives i and ii  
Laboratory reports: objective i  
Subject Description: The application of physical chemistry to aqueous and atmospheric environments. Pollution of the environment is often controlled by the chemical nature of possible contaminants and the surrounding media into which they are released. Topics will include chemical thermodynamics, acid-base chemistry, solubility of species, redox chemistry, gas phase chemistry, mass transfer and properties of aerosols. Laboratory exercises will be conducted to supplement the theoretical basis of the subject.  
Subject Objectives: On successful completion of this subject students should be able to: (i) identify the elements required in site characterisation studies; (ii) understand the advantages and disadvantages of a variety of remediation techniques; (iii) know when and how to apply these technologies to specific sites.

ENVE420 Water Engineering 6cp  
Contact Hours: Subject not on offer in 2002.  
Pre-requisites: Nil  
Co-requisites: CIVL322 Hydraulics and Hydrology  
Restrictions: none  
Exclusions: none  
Assessment: 2 hour final examination: objectives i to iii  
Mid-session quiz: objectives i to iii  
Projects: objective iv  
Subject Description: Coastal Engineering - wave forecasting; wave refraction; diffraction and breaking; wave forces on structures; beach erosion and beach protection. Water Resources - the hydrologic cycle; distribution of the world's water resources; surface water resources; groundwater resources; computer models of catchment water balances; storage reservoir yield analysis. River Engineering - fluvial hydraulics; morphology of natural channels; erosion and sediment transport; re-naturalising streams; remediation of polluted rivers. Urban Stormwater Management - stormwater quality and flooding problems in urban areas; flood reduction using detention basins; computer modelling of urban stormwater systems.  
Subject Objectives: On successful completion of this subject students should be able to: (i) understand the basic principles of coastal engineering, water resources, river engineering, and...
urban stormwater management; (ii) identify the significant factors which must be considered when analysing these topics; (iii) apply analytical techniques to solve problems in water engineering; (iv) design coastal, water resources, river and urban stormwater engineering works.

**ENVE421 Environmental Engineering Design 2 6cp**

*Spring*  
Wollongong  
On Campus

**Contact Hours:** information unavailable

**Pre-requisites:** ENVE320, ENVE321 and CIVL322

**Co-requisites:** Information unavailable

**Restrictions:** none

**Exclusions:** none

**Assessment:** Five design reports: objective i

**Subject Description:** The ability to undertake a comprehensive integrated project design is the capstone of a student's engineering education. This subject will provide students with the opportunity to undertake the design of a major project. Students will be provided with an overall concept plus specific requirements that must be met by the design. All aspects of environmental engineering will be involved, including impact assessment, legislation, and modelling. Topic areas that have not been presented in previous subjects, but are required for the successful completion of the project, will be covered during the lecture portion of the class. Lecture topics will include environmental impact assessment and legislation, and environmental modelling.

**Subject Objectives:** On successful completion of this subject students should be able to: (i) complete several environmental design projects which cover major aspects of environmental engineering.
MATE201  Structure and Properties of Materials  6cp
Autumn  Wollongong  On Campus
Contact Hours: 52.
Pre-requisites: ENGG153 Engineering Materials or PHYS141 Fundamentals of Physics A and PHYS142 Fundamentals of Physics B
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, objectives i to v CD ROM based tutorials: objectives i to iv Tests: objectives i to v Examinations: objectives i to v
Subject Description: Study of fundamental crystallography, structural defects, non-crystalline structures, structures of common metals, intermetallics, simple ceramics and polymers. Electrical, magnetic, optical, thermal and mechanical properties of materials and their relationships to structure will be discussed. Basic principles of techniques used to study structure will be introduced: optical microscopy, x-ray diffraction and scanning and transmission electron microscopy. Students will participate in tutorials and laboratory work related to these topics.
Subject Objectives: On successful completion of this subject students should be able to: (i) apply fundamental crystallographic techniques to correctly classify crystals, and identify directions and planes in crystals, (ii) describe the structures of some common metals, ceramics, polymers and intermetallics; (iii) discuss the origin of electrical, magnetic, optical, thermal and mechanical properties of materials, and explain how they are related to structure, (iv) describe the types of defects found in crystalline materials, and explain their effects on properties, and (v) explain the basic principles of optical microscopy, x-ray diffraction and scanning and transmission electron microscopy, and perform calculations using experimental data to correctly identify materials and structural features.

MATE202  Thermodynamics and Phase Equilibria  6cp
Autumn  Wollongong  On Campus
Contact Hours: 52.
Pre-requisites: CHEM103 Introductory Chemistry for Engineers
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, laboratory reports, mid-session test, final examination
Subject Description: Laws of thermodynamics: energy, entropy and free energy; equilibrium in chemical systems; chemical potential; determination of thermodynamical quantities; thermodynamics of phase equilibria and construction of phase diagrams. Binary condensed systems; Gibbs phase rule: lever rule; types of equilibrium diagram; experimental determination of phase diagrams, microstructural development, non-equilibrium effects. Ternary condensed systems. Application of phase equilibria to metallic, ceramic and polymeric systems.
Subject Objectives: Upon completion of this subject a student should be able to: (i) understand the basic laws and principles of thermodynamics; (ii) calculate the values of thermodynamic functions from tabulated data; (iii) appreciate the use of Ellingham diagrams in metallurgical processes; (iv) understand the relationship between thermodynamics and phase equilibria in condensed systems and construct simple binary diagrams from thermodynamic and experimental data; (v) interpret basic binary and ternary phase diagrams and determine the effects of equilibrium and non-equilibrium cooling on microstructural development; and (vi) appreciate the use of phase diagrams in understanding phase equilibria and transformations in metallic and ceramic systems.

MATE203  Phase Transformations  6cp
Spring  Wollongong  On Campus
Contact Hours: 52.
Pre-requisites: none
Co-requisites: MATE201 Structure and Properties of Materials
Restrictions: none
Exclusions: none
Assessment: Final examination and assignments
Subject Description: Nucleation in liquid and solid states; thermodynamics of solidification; solidification of pure materials and alloys; thermal supercooling; constitutional supercooling; interface stability; solute redistribution; eutectic solidification; crystal growth techniques. Solid-state transformations - nucleation and growth of phases; Fick's laws of diffusion; diffusion mechanisms; transformation kinetics; transformation diagrams. Diffusional and diffusionless transformations: decomposition of solid solutions; ordering reactions, spinodal decomposition; eutectoid, massive, bainitic and martensitic transformations; crystallographic features; transformations in common alloy systems.
Subject Objectives: On successful completion of this subject students should be able to: (i) explain the fundamental principles underlying various types of phase transformations, (ii) apply basic thermodynamics to phase transformations; (iii) apply basic kinetics to phase transformations, and (iv) explain how material microstructures develop, and how phase transformations can be used to control microstructures during processing.

MATE204  Mechanical Behaviour and Fracture  6cp
Spring  Wollongong  On Campus
Contact Hours: 52.
Pre-requisites: MATE201 Structure and Properties of Materials
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, laboratories, final examination
Subject Description: Theoretical strength; slip; twinning; deformation of single and poly crystals; dislocation multiplication; cross slip; climb; dislocation interactions. Strain hardening; solid solution hardening; dispersion hardening; grain size strengthening; other strengthening mechanisms. High temperature deformation; creep; stress relaxation; effect of strain rate and temperature; plastic instability; super plasticity; viscoelastic behaviour. Fracture mechanics - fracture modes; plane stress and plane strain; notch effects; crack propagation; fracture toughness; high temperature fracture; fatigue and environmentally-assisted failure; design to minimise fracture.
Subject Objectives: After successfully completing this subject a student should be able to: (i) explain the fundamental aspects of mechanical deformation and fracture, (ii) describe strengthening mechanisms, (iii) discuss factors which affect
high temperature deformation, (iv) explain short and long term effects of crack propagation, and factors which influence failure, and (v) apply principles of mechanical behaviour and fracture to engineering design problems.

MATE291 Engineering Computing and Laboratory Skills 6cp
Autumn Wollongong On Campus
Contact Hours: 65.
Pre-requisites: ENGG153 Engineering Materials
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, tests, laboratory reports, examination

Subject Description: Introduction to basic laboratory techniques used to study structure and properties of materials. Techniques include thermal treatment, reflected and transmitted light microscopy, basic x-ray diffraction, mechanical testing of metals, ceramics and polymers, and statistical analysis of data. Introduction to computer operating systems, application of spreadsheets to engineering problems, introduction to structured programming using flow-charts; data acquisition and control using the C-language. Information gathering and report writing skills will be further developed.

Subject Objectives: After successfully completing this subject, students should be able to: (i) discuss the principles of temperature measurement, optical microscopy, basic x-ray diffraction and mechanical testing, (ii) explain the applications and limitations of these techniques, (iii) apply spreadsheets to analyse experimental data and to solve engineering problems, (iv) apply the C-language to elementary data acquisition and control tasks, and (v) prepare high quality laboratory reports.

MATE301 Engineering Alloys 6cp
Autumn Wollongong On Campus
Contact Hours: 52.
Pre-requisites: MATE203 Phase Transformations
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Laboratory reports, assignments and examinations

Subject Description: Ferrous alloys - Phase transformations in ferrous alloys; binary and ternary additions to iron; strengthening mechanisms; ternary and multi component alloys; commercial steels and cast irons; hardenability. Non-ferrous alloys - Physical metallurgy, processing and applications of commercially significant non-ferrous alloys. Advanced alloys and processing - superalloys, superplastic alloys and metal-matrix composites. Design and selection of metallic materials on the basis of property requirements. Case studies.

Subject Objectives: A student who has successfully completed this subject should: (i) understand the effect of adding a second component to iron on the stability, structure and properties of ferrite and austenite, (ii) be familiar with the effect of third components X on the stability and properties of austenite and ferrite in Fe-C-X alloys, (iii) be familiar with commercial cast irons and alloy steels in the categories of austenite and ferrite in Fe-C-X alloys, (iv) understand the concept of hardenability and the way it can be measured, (v) be familiar with the common non-ferrous commercial alloys and their thermal and mechanical treatments, and (vi) be familiar with structure-property relationships and processing of superplastic alloys, rapidly-solidified alloys, metal-matrix composites and intermetallics.

MATE302 Polymeric Materials 6cp
Autumn Wollongong On Campus
Contact Hours: 52.
Pre-requisites: ENGG153 Engineering Materials
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorial assignments, quizzes, final examination

Subject Description: Review of polymerisation chemistry. Description of polymer structures from macromolecular to microscopic; introduction to techniques for characterisation of polymer structures. Relationships between structure and properties of polymers, including mechanical, thermal, chemical, optical, electrical and rheological. Processing techniques for polymer products. Engineering design with polymers. Advanced polymers.

Subject Objectives: A student who has successfully completed this subject should be able to: (i) describe the physical and structural features of polymeric materials, (ii) describe the inter-relationships between structure, processing and properties of polymeric materials, and (iii) solve problems related to the use of polymers in engineering applications, including polymer selection, failure analysis, processing and design.

MATE303 Ceramics, Glasses and Refractories 6cp
Spring Wollongong On Campus
Contact Hours: 39.
Pre-requisites: MATE201
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments: objectives i to iv Tests: objectives i to iv Seminar: objective iv Processing project: objective iii Examination: objectives i to iv

Subject Description: Description of complex ceramic structures, including atomic and microstructural features of glass and crystalline ceramics, study of relationships between structures and physical and mechanical properties, methods for testing ceramics, industrial processing methods for ceramics, refractories, engineering ceramics, case study in design with brittle materials. A major process design project, in which students attempt to make a finished ceramic product which meets certain specifications forms a key part of the assessment.

Subject Objectives: After successfully completing this subject a student should be able to: (i) describe the structures of a range of ceramic materials (ii) explain the inter-relationships between structures, processing methods and properties of ceramic materials, (iii) describe commonly used ceramics processing methods, and select the best method for making a particular product, and (iv) be able to explain why certain ceramics are used in particular engineering applications, and discuss the advantages and limitations of ceramics in comparison to other engineering materials.
MATE304 Transport Phenomena in Materials Processes 6cp
Spring Wollongong On Campus
Contact Hours: 52.
Pre-requisites: MATH283 Mathematics 2E for Engineers Part 1
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Tutorials, quizzes, final examination
Subject Description: Fluid dynamics - Properties of and types of fluids; laminar and turbulent flow; energy balances; conservation of energy; flow through packed beds; dimensional analysis; fluid flow measurement. Heat and mass transfer - One and two dimensional heat conduction; radiation heat transfer; free and forced convection. Application of Ficks laws to diffusion in solids, liquids and gases; mass transfer coefficient; mass transport in fluid systems; interphase mass transfer; two-resistance theory. Applications of transport phenomena to a range of metallurgical processes.
Subject Objectives: Upon completion of this subject a student should be able to: (i) describe the properties of ideal and real fluids; (ii) understand the transition from laminar to turbulent flow and how fluid flow is measured; (iii) discuss the effect of fluid flow on metallurgical processes such as refining and casting; (iv) differentiate between the various modes of heat transfer and appreciate the significance of the heat transfer coefficient; (v) explain how the transport of heat affects a wide range of metallurgical processes such as refining, casting, heat treatment and thermomechanical processing, and (vi) understand the effect of diffusion in solid, liquids and gases on interface reaction kinetics.

MATE305 Primary Materials Processing 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: MATE202 Thermodynamics and Phase Equilibria
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, laboratory, project, examination
Subject Description: Introduction to primary processing; raw materials and materials preparation for production of metals, ceramics and polymers; mineral processing; production of metal oxides, clinkers and sintering. Study of metallurgical processes including iron and steelmaking, production of copper and aluminium. Introduction to polymerisation processes. The application of thermodynamics and kinetics to processing. Students will be involved in case study based projects, some laboratory work and visits to industrial sites.
Subject Objectives: After successfully completing this subject, students will be able to: (i) describe the major processes used for mineral processing and raw material preparation, (ii) explain the basic primary production processes used for metals, and ceramics and polymers, (iii) understand how the thermodynamics of a variety of reactions relate to the processes being described; (iv) explain basic kinetics of reactions involved in materials processing and how this relates to the processes being described, and (v) perform simple kinetic and thermodynamic calculations related to materials processing and process design.

MATE306 Degradation of Engineering Materials 6cp
Spring Wollongong On Campus
Contact Hours: 52.
Pre-requisites: MATE202 Thermodynamics and Phase Equilibria
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Examination, tutorial assignments (some using interactive computer software), laboratory reports
Subject Description: Preliminary corrosion & electrochemistry; metals in equilibrium, thermodynamics of corrosion and dissolution. Pourbaix diagrams; Departures from equilibrium-kinetics of corrosion & the Evans diagram; types of corrosion, methods of measuring corrosion rates; Surface films & passivity; Corrosion prevention & control. Wear of materials; surface topography and its determination; origin of friction, influence of surface films and work hardening on friction; introduction to contact mechanics; wear mechanisms and wear maps; techniques for minimising wear. Design of materials for particular service environments.
Subject Objectives: At the completion of the subject, students should be able to: (i) explain the electrochemical principles involved for metals in equilibrium and the departure from equilibrium, (ii) describe electrochemical corrosion theory and common cathodic processes, (iii) explain the thermodynamics of corrosion and the Pourbaix diagram, (iv) explain the kinetics of corrosion and the Evans diagram, (v) describe types of corrosion and methods for corrosion prevention, (vi) explain surface films and passivity of metals, (vii) explain the importance of surface topography in friction and wear, (viii) discuss the origins of friction and the frictional behaviour of metals, ceramics and polymers (ix) describe common wear mechanisms, and apply wear maps to engineering problems

MATE391 Materials Testing Techniques 6cp
Autumn Wollongong On Campus
Pre-requisites: MATE291 Engineering Computing and Laboratory Skills
Co-requisites: Nio
Restrictions: none
Exclusions: none
Assessment: Logbooks, laboratory reports
Subject Description: This is a laboratory based subject designed to give students practical experience with a variety of testing techniques used to assess materials. Techniques include thermal analysis, dilatometry, particle size analysis, and scanning electron microscopy and energy dispersive spectroscopy of x-rays. Principles of the techniques, data analysis and applications of the techniques to engineering problems such as failure analysis and phase transformations will be studied.
Subject Objectives: After successfully completing this subject, students will be able to: (i) discuss the principles of a variety of 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 techniques, and (iv) select appropriate techniques to assess engineering materials or investigate problems.
MATE401 Selection of Materials in Engineering Design 6cp
Autumn  Wollongong  On Campus

Contact Hours: 52.
Pre-requisites: MATE201 Structure and Properties of Materials
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, case study projects, examination


Subject Objectives: This subject has the main objective of providing the student with an appreciation of the principles underlying the selection of materials and processing methods for the design of engineering components. A student who has completed this subject should: (i) have acquired a broad knowledge of the range of materials that are available for engineering applications, (ii) be able to identify material property and processing requirements for a particular application, (iii) be able to describe and use the common methods for selecting materials for a given engineering component and, (iv) appreciate the influence on selection issues such as production techniques, quantity requirements, environmental requirements satisfaction of standards and business economics.

MATE402 Secondary Materials Processing 6cp
Spring  Wollongong  On Campus

Contact Hours: 52.
Pre-requisites: MATE202 Thermodynamics and Phase Equilibria and MATE203 Phase Transformations
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments and final examination

Subject Description: Heat flow in solidification; solidification of castings and ingots, mould design; continuous casting, near-net-shape casting, squeeze casting, spray forming and other casting methods; grain refinement; as-cast microstructure and homogenisation; casting defects. Mechanics of deformation processing; flow stress determination; temperature and strain-rate effects; dynamic restoration mechanisms; friction and lubrication; residual stresses; deformation-zone geometry; microstructural modelling; control of microstructure; computer-aided programming. Industrial metalworking processes: rolling, forging, extrusion, drawing, and machining, production of polymers and ceramics.

Subject Objectives: After successfully completing this subject, students should be able to: (i) explain a solidification process used to produce materials, and why they are used; (ii) discuss deformations processed used to produce materials, and perform mechanics calculations related to these processes and, (iii) describe how these processes can be used to control microstructure and properties of the final product.

MATE411 Advanced Materials and Processing 6cp
Spring  Wollongong  On Campus

Contact Hours: 39.
Pre-requisites: MATE201 Structure and Properties of Materials and MATE203 Phase Transformations
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments and final examination

Subject Description: Study of advanced materials selected from: glassy, quasi-crystalline and nano-crystalline materials, magnetic, electronic, catalytic and bio sensing materials; intelligent, functionally gradient and environmental materials. Superplasticity, superelasticity and superconductivity. Metal, polymer and ceramic based composite and principles of reinforcement. Advanced processing methods selected from: rapid solidification, powder processing, near-net-shape forming, self-sustaining high temperature synthesis, biomimetic processing, sol-gel processing, zone refining and molecular beam epitaxy. Engineering applications of advanced materials and processing methods.

Subject Objectives: Upon completion of this subject, students will be able to: (i) demonstrate an understanding of current developments in materials (ii) explain the principles of advanced materials processing methods (iii) describe the production methods for composite materials, and (iv) apply basic principles to the design of composites and other advanced materials.

MATE412 Electronic Materials 6cp
Autumn  Wollongong  On Campus

Contact Hours: 42.
Pre-requisites: MATE201 Structure and Properties of Materials or PHYS205 Advanced Modern Physics or PHYS230 Intermediate Physics
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, laboratory reports and examinations

Subject Description: The nature of electronic materials; Electrons in solids, band theory, insulators, conductors, semiconductors and superconductors. The free and nearly free electron theories. Electrical conductivity, hall effect. Types of magnetic materials. Semiconductors - intrinsic, extrinsic, the hole, the p-n junction. Superconductors - phenomena, BCS theory. Production of semiconductors and superconductors, control of processing to achieve desired properties. Design and production of novel materials to achieve improved performance in electronic devices; modern applications.

Subject Objectives: Upon the completion of this subject, students will be able to: (i) explain the origins of electrical and magnetic properties of materials in terms of electronic structure; (ii) describe how electrical properties are related to structure; (iii) describe the processing of semiconductors and superconductors, and explain how processing parameters affect electrical properties; (iv) discuss applications for a range of electronic and magnetic materials; (v) use theoretical concepts to design new materials with improved properties.
Subject Descriptions

**MATE413 Structural Characterisation Techniques** 6cp

*Spring  Wollongong  On Campus*

**Contact Hours:** 52  
**Pre-requisites:** MATE291 Engineering Computing and Laboratory Skills  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Assignments, seminars, laboratory practice and reports  

**Subject Description:** Several advanced structural characterisation techniques will be introduced through lectures and laboratory classes. Topics may be selected from: electron microscopy - interactions of electrons with solids, electron optics, image formation and interpretation, scanning and transmission electron microscopy, energy dispersive spectroscopy, convergent beam electron diffraction, image contrast theory, thin foil microanalysis. Atomic force microscopy, X-ray diffraction and texture analysis. Studies of advanced materials characterisation techniques may also be included.

**Subject Objectives:** A student who has satisfactorily completed the subject should be able to: (i) explain the nature and capabilities of the materials characterisation techniques studied, (ii) understand the basic operations of the equipment used, (iii) demonstrate a basic level of proficiency with the equipment used, and (iv) obtain and analyse data using the techniques studied.

**MATE421 Metallurgical Process Engineering** 6cp

*Spring  Wollongong  On Campus*

**Contact Hours:** 39  
**Pre-requisites:** MATE202 Thermodynamics and Phase Equilibria  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Assignments, case study and examinations  

**Subject Description:** This subject provides an introduction to the principles of metallurgical process engineering. The underpinning scientific principles of metallurgical processing are used to elucidate operating procedures of industrial processes. Application of metallurgical thermodynamics to slag - metal equilibria during metallurgical processes. Study of pyrometallurgical refining of copper and the use of stability diagrams: electrolytic refining. Introduction to other non-ferrous processes such as aluminium and zinc production.

**Subject Objectives:** After successfully completing this project, a student should be able to: (i) explain the nature and capabilities of the materials characterisation techniques studied, (ii) understand the basic operations of the equipment used, (iii) demonstrate a basic level of proficiency with the equipment used, and (iv) obtain and analyse data using the techniques studied.

**MATE422 Iron and Steelmaking** 6cp

*Spring  Wollongong  On Campus*  
*Autumn  Wollongong  On Campus*

**Contact Hours:** information unavailable  
**Pre-requisites:** MATE202 Thermodynamics and Phase Equilibria  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Assignments and examinations  

**Subject Description:** The fundamentals of metallurgical thermochemistry and reaction kinetics are studied with a view to metallurgical process analysis in the iron and steelmaking industry, with an emphasis on ladle metallurgy. Direct reduction of iron ore; single particle reduction kinetics and the analysis of shaft furnace operation leading to an analysis of the blast furnace. Analysis of industrial processes with emphasis on reactor design, smelting-reduction and ferro-alloy production. Principles of continuous casting.

**Subject Objectives:** After successfully completing this project, a student should be able to: (i) explain the principles and operation of the iron blast furnace, (ii) explain the principles and operation of basic oxygen furnaces for steelmaking, (iii) describe methods used for direct iron production, (iv) apply the relevant thermodynamics and kinetics of slag-metal and gas-solid reactions to iron and steelmaking processes, including ladle metallurgy, and (v) explain the principles of the continuous casting of steel.

**MATE431 Sheet Metal Processing** 6cp

*Contact Hours: Subject not on offer in 2002.*  
**Pre-requisites:** MATE203  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Assignments, laboratory report, mid-session examination, final examination  

**Subject Description:** Plastic forming - Flow behaviour of sheet metals under uniaxial and biaxial stress; yielding criteria; plastic anisotropy. Shaping processes - Deep drawing; press forming; wall ironing and spinning; stretch forming; superplastic forming; workability; forming limit criteria; defects in formed parts; cutting, piercing and blanking. Surface finishing - Metallic, ceramic and polymeric coating of sheet materials; formability and defects in coated sheet. Case studies of forming of industrially significant sheet metals.

**Subject Objectives:** A student who has satisfactorily completed this subject should be able to: (i) understand the effect of stress state on yielding of sheet metals; (ii) understand the influence of microstructure on plastic anisotropy of sheet metals; (iii) understand the effect of structure and mode of deformation on the workability of sheet metals; and (iv) appreciate how various coating methods may affect the formability and service performance of sheet metals.

**MATE432 Mechanical and Thermal Processing** 6cp

*Autumn  Wollongong  On Campus*  
**Contact Hours:** 52  
**Pre-requisites:** MATE301 Engineering Alloys and MATE304 Transport Phenomena in Materials Processes  
**Co-requisites:** none  
**Restrictions:** none  
**Exclusions:** none  
**Assessment:** Laboratory reports, assignments and final examination  

**Subject Description:** Thermal treatment - Heat transfer in batch and continuous annealing; furnace design; heating efficiency; temperature control; heat treatment problems in engineering. Deformation and annealing - Polycrystalline plasticity; deformation microstructure and texture; stored energy; mechanisms of recovery and recrystallization; nucleation and growth of new grains; kinetics; effect of purity, solutes and particles; control of grain size; grain growth and secondary recrystallization; annealing textures; plastic and magnetic anisotropy; case studies.
Subject Objectives: A student who has satisfactorily completed this subject should be able to: (i) explain the main modes of heat transfer in batch and continuous annealing furnaces; (ii) describe the structural and property changes during tempering of steel; (iii) understand the role of slip and deformation twinning on the development of microstructure and texture in polycrystalline materials; (iv) appreciate the effect of thermal treatment on recovery, recrystallization and grain growth of metals and ceramics; (v) appreciate the influence of initial microstructure on the annealing behaviour of deformed metals and ceramics; and (vi) understand the development of annealing textures and their influence on plastic and magnetic anisotropy of sheet metals.

MATE433 Surface Engineering 6cp
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: MATE306 Degradation of Engineering Materials
Restrictions: none
Exclusions: none
Assessment: Assignments, case studies and examinations
Subject Description: Classification of surface treatments, thermal, thermochemical, chemical vapour deposition, physical vapour deposition, thermal spraying, chemical and electrochemical processing; industrial engineering applications.

Subject Objectives: After successfully completing this subject, a student should be able to: (i) correctly classify surface treatments, (ii) describe selected surface engineering techniques, and the key parameters used to control them, and (iii) discuss industrial applications of surface engineering techniques, and select appropriate surface engineering techniques for a given application.

MATE434 Materials Welding and Joining 6cp
Contact Hours: information unavailable
Pre-requisites: ENGG153 Engineering Materials
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, labs, tests and examinations
Subject Description: This subject provides an introduction to common welding and joining processes for metals, ceramics and polymers. Topics include: the effects of welding on materials; the electro technology of welding equipment; riveted and bolted joints; adhesive bonding; methods of quality control; health and safety in joining operations; the principles of design for fabrication; the economics of joining and an overview of the latest advances in joining technology.

Subject Objectives: A student who has successfully completed this subject should be able to: (i) describe a variety of welding and joining processes, and the underlying technical principles associated with them, (ii) explain the effects of welding and joining techniques on materials, (iii) discuss safety and economic issues associated with welding and joining, and (iv) apply principles of welding and joining to engineering fabrication and design.

MATE441 Polymer Science 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: MATE302 Polymeric Materials
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Examination, practicals and assignments.

Subject Description: Detailed study of polymerisation reactions and control of molecular structure. Macromolecular conformations, shapes and entanglements. Solution properties of polymers. Rheological behaviour and viscoelasticity will be discussed using examples from industrial processes.

Subject Objectives: A student who has satisfactorily completed this subject should be able to: (i) describe the need for, and methods used to control the molecular structure of polymers through controlled polymerisation; (ii) use the principles of thermodynamics to describe the shape of individual polymer molecules at equilibrium; (iii) discuss the influence of molecular structure, solvent and temperature on the solution and melt rheological properties of polymers; (iv) describe

MATE442 Polymer Processing 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: MATE302 Polymeric Materials
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Examination, practicals and assignments.

Subject Description: Study of polymer processing and fabrication methods including compounding, moulding and joining. Design of polymeric products. The influence of polymer properties (especially melt rheology) on processing performance will be discussed in detail. Environmental sustainability of polymers processing, including recycling, will also be studied.

Subject Objectives: A student who has satisfactorily completed this subject should be able to: (i) describe the steps involved in the manufacture of a typical component made from polymer parts; (ii) describe the main principles of operation of injection moulding, blow moulding and extrusion; (iii) explain how polymer properties influence the processability of the polymer; (iv) design a processing method for a given polymer part; (v) discuss issues of environmentally sustainable polymers processing and how these can be addressed.

MATE443 Advanced Polymers 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: MATE302 Polymeric Materials
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Examination, practicals and assignments.

Subject Description: Recent developments in the polymers field will be discussed including a description of the global polymer industry and recent examples of newly developed polymers, such as structural polymers, biomedical materials and conducting polymers. Students will undertake a detailed case study of the development of a new polymer from lab to final application as part of the assessment.

Subject Objectives: A student who has satisfactorily completed this subject should be able to: (i) describe the need for, and methods used to control the molecular structure of polymers through controlled polymerisation; (ii) understand the influences driving the development of new polymeric materials; (iii) explain the fundamental basis of recent research and development of new polymers including structural, biomedical and conducting polymers; (iv) devise a research strategy and project plan for the development of a new polymer for a given new application.
### Subject Descriptions

#### MECHANICAL ENGINEERING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Contact Hours</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH152</td>
<td>Engineering Computing and Workshop Practice</td>
<td>6cp</td>
<td>Wollongong On Campus</td>
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<tr>
<td>Summer</td>
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<tr>
<td>Pre-requisites:</td>
<td>none</td>
<td>Co-requisites:</td>
<td>none</td>
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<tr>
<td>Restrictions:</td>
<td>none</td>
<td>Exclusions:</td>
<td>none</td>
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<tr>
<td>Assessment:</td>
<td>Final examination: objectives ii and iii Laboratory reports: objective ii Oral examination: objectives i and ii Other examination, assignments may be incorporated in the final assessment: objectives iii and iv</td>
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<tr>
<td>Subject Description:</td>
<td>Introduction to practical methods and skills basic to mechanical fabrication; fitting and machining, welding and sheet metal work; elements of engineering instrumentation and mechanical measurement techniques applied to temperature, pressure, velocity, stress and displacement, introduction to computer operating systems; application of spreadsheets to engineering problems; introduction to structured programming using flow-charts; data acquisition and control using the C-language.</td>
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<tr>
<td>Subject Objectives:</td>
<td>On satisfactory completion of this subject students will be able to: (i) apply basic fabrication techniques, (ii) explain the principles of the most widely used instrumentation elements, (iii) apply spreadsheets to analysis of experimental data and for solution of engineering problems, (iv) apply the C-language for elementary data-acquisition and control tasks.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>MECH201</td>
<td>Engineering Analysis</td>
<td>6cp</td>
<td>Wollongong On Campus</td>
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<td>Spring</td>
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<tr>
<td>Pre-requisites:</td>
<td>MATH283 Mathematics II E Part 1</td>
<td>Co-requisites:</td>
<td>none</td>
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<td>Restrictions:</td>
<td>none</td>
<td>Exclusions:</td>
<td>none</td>
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<tr>
<td>Assessment:</td>
<td>Final examination: other short examinations, tutorials and assignments and projects may be incorporated in the final assessment: objectives i to iv</td>
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<tr>
<td>Subject Description:</td>
<td>Analysis for the conservation of mass, momentum and energy in engineering systems; control volume analysis for the conservation of mass, momentum and energy in engineering systems; numerical methods for the solution for a selection of problems in fluid mechanics, heat transfer, solids mechanics, bulk solids and control systems; linear algebra; eigenvalue analysis; optimisation curve fitting; roots of equation; experimentation to validate engineering analysis.</td>
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<td>Subject Objectives:</td>
<td>On satisfactory completion of this subject students will be able to: (i) construct mathematical models for linear and non-linear engineering systems; (ii) apply existing analytical solutions for a range of engineering systems; (iii) make efficient use of computer for the solution of engineering problems; (iv) incorporate experimental data in the analysis of engineering systems.</td>
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<th>Contact Hours</th>
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<tbody>
<tr>
<td>MECH155</td>
<td>Fundamentals of Machine Component Design</td>
<td>6cp</td>
<td>Wollongong On Campus</td>
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<td>Spring</td>
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<tr>
<td>Pre-requisites:</td>
<td>ENGG154 Engineering Design and Innovation</td>
<td>Co-requisites:</td>
<td>ENGG251 Mechanics of Solids</td>
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<tr>
<td>Restrictions:</td>
<td>none</td>
<td>Exclusions:</td>
<td>none</td>
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<tr>
<td>Assessment:</td>
<td>Final examination: objectives i, iii and iv Other short examinations: objectives i, iii and iv</td>
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<tr>
<td>Subject Description:</td>
<td>Design and Build Competititon requiring team work, concept designs and final solution; design and analysis of fundamental machine components, such as limits and fits, bolted and welded connections, power screws, keys, spur and helical gears, brakes, clutches, bearings and failure theories for static and cyclic load conditions.</td>
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<td>Subject Objectives:</td>
<td>On satisfactory completion of this subject students will be able to: (i) provide concept designs and solutions to engineering problems (ii) verify design by prototype building and testing (iii) calculate stresses, limits and fits, and tolerances for machine elements, (iv) design and analyse fundamental machine components such as gears, bearings, welds, etc.</td>
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<tbody>
<tr>
<td>MECH226</td>
<td>Machine Dynamics</td>
<td>6cp</td>
<td>Wollongong On Campus</td>
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<tr>
<td>Spring</td>
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<tr>
<td>Pre-requisites:</td>
<td>MATH188 or MATH142 and ENGG152</td>
<td>Co-requisites:</td>
<td>none</td>
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<tr>
<td>Restrictions:</td>
<td>none</td>
<td>Exclusions:</td>
<td>none</td>
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<tr>
<td>Assessment:</td>
<td>Final examination: objectives i to iv Other examinations, assignments and laboratory experiments may be incorporated in the final assessment: objectives i to iv</td>
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<tr>
<td>Subject Description:</td>
<td>Dynamics of rigid bodies and simple mechanisms in plane motion, kinematic analysis by vector and polygon methods, velocity analysis by instantaneous centres; kinetic analysis by superposition vector and force polygon methods, matrix method, method of virtual work; energy distribution method; kinematics of cam profiles; balance of rotors; introduction to CAD mechanism design; synthesis of a mechanism.</td>
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<tr>
<td>Subject Objectives:</td>
<td>On satisfactory completion of this subject students will be able to: (i) analyse rigid bodies in plane motion (ii) understand the kinematics of plane mechanisms (iii) analyse the forces acting on plane mechanisms (iv) solve a kinematic or kinetic problem using analytical, graphical and software tools</td>
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Contact Hours</th>
<th>Component</th>
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<tbody>
<tr>
<td>MECH215</td>
<td>Mechanical Engineering Design</td>
<td>6cp</td>
<td>Wollongong On Campus</td>
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<tr>
<td>Autumn</td>
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<tr>
<td>Restrictions:</td>
<td>none</td>
<td>Exclusions:</td>
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Assessment: Final examination: objectives i to vi Other short examinations/tutorials and assignments and design projects may be incorporated into the final assessment: objectives i to iii

Subject Description: Fatigue design including combined stresses, fracture mechanics and material selection. Contact stresses. Application of current design codes (eg for shaft design and rating helical and spur gears). Case studies incorporating cost estimation and evaluation, and project management. Students are required to analyse and propose solutions for a typical engineering problem drawn from the local industry. The solution would normally involve a combination of innovative thinking and an integration of analysis tools provided in this and preceding subjects. A site visit is normally incorporated to clarify the link between the analytical work and the application to a real problem.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) Apply a number of important analysis tools in the design of mechanical components (eg fatigue design, contact stresses, curved beam stresses); (ii) Use Australian Standards in the design and rating of rotating steel shafts, and gears (spur and helical) and recognise the relevance of applying standards in a design context; (iii) Apply and integrate these design skills in the solution of a typical engineering problem.

MECH321 Dynamics of Engineering Systems 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MATH283 Mathematics IIE for Engineers Part 1
Co-requisites: MECH226 Machine Dynamics
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to vi Other examinations, assignments and laboratory experiments may be incorporated into the final assessment: objectives i to vi

Subject Description: Derivation of system equations for mechanical, electrical, thermo-dynamic and fluid-dynamic systems; analysis of linear, transverse and torsional vibration of mechanical systems; system classification; linearisation of system equations; linear time-invariant differential equations using transfer function representation analysis of system response in the time and frequency domain; simulation of dynamic systems.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) Derive the differential equation describing the behaviour of a dynamic system (ii) use block-diagrams and Laplace transforms to solve differential equations (iii) Analyse the behaviour of dynamic systems in the time and frequency domain (iv) Simulate and evaluate system response of mechanical systems and processes, and (v) Apply the above to industrial problems.

MECH341 Thermodynamics 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: ENGG252 Engineering Fluid Mechanics
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to iv Quizzes: objectives i to iv Laboratory experimental reports: objective iv

Subject Description: Properties of pure substances; first law of thermodynamics, closed systems, control volumes; second law of thermodynamics; entropy; second law analysis of engineering systems; power and refrigeration cycles; mixtures; psychrometrics and basic air conditioning.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) Determine the thermodynamic properties of pure substances using property tables, (ii) Determine work and heat transfer through conservation of energy for closed systems and control volumes, (iii) Understand the second law of thermodynamics and entropy generation as applied to a variety of engineering systems, (iv) Analyse and measure the performance of various power and refrigeration cycles and basic air conditioning systems.

MECH343 Heat Transfer and Aerodynamics 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ENGG252
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final Examination: objectives i, iii, iv and vi Mid-session quiz: objectives i and iii Assignments: objective i to vi Laboratory Reports, i to iii

Subject Description: One and two dimensional heat conduction; forced convection; heat exchangers; radiation; boundary layer flows; flow around immersed bodies; one dimensional compressible flow with and without heat transfer; normal shock waves; compressible flow in pipes.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) Analyse thermal engineering problems, (ii) Design simple thermal devices and equipment such as heat exchangers and furnace wall insulation, (iii) Predict heat transfer rates in a wide variety of industrial equipment and processes, (iv) Understand the fundamental engineering concepts involved in compressible flow of gases, (v) Carry out analysis of problems and design of high speed gas flow in pipes and nozzles.

MECH365 Control of Machines and Processes 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MATH284 or MECH201 and MECH321
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to iv and vi Other examinations, assignments and laboratory experiments may be incorporated in the final assessment: objectives i to vi

Subject Description: Classical control system analysis and design concepts: transient response, steady-state error analysis, frequency domain analysis, root-locus controller design methods and frequency domain controller design methods; PLC programming.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) Analyse the behaviour of control systems in the time and frequency domain, (ii) Design a controller using the root-locus method, (iii) Design a lead-lag compensator, (iv) Design a PID controller, (v) Implement and evaluate the performance and robustness of controllers for mechanical systems and industrial processes, (vi) Write and implement a ladder diagram in a PLC and evaluate it in practice.
Subject Descriptions

MECH372 Bulk Solids Handling Technology 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MECH215 Fundamentals of Machine Component Design
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to iii
Subject Description: This course introduces students to the basic principles of manufacturing engineering. Topics include an overview of bulk materials handling, measurements and instrumentation, mechanical conveying, pneumatic conveying, dust control and dust explosions, and handling systems.
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) determine physical properties of bulk solids; (ii) use particle and bulk properties in design and analysis of different handling operations; (iii) calculate relevant design and operating parameters in the feeding, discharge, mechanical and pneumatic conveying, and dust control.

MECH378 Sustainable Energy Technologies 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ENGG252 - Engineering Fluid Mechanics
Co-requisites: ECTE290 Fundamentals of Electrical Engineering
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to iii
Subject Description: This subject covers a number of Sustainable Energy Technologies including the following: solar thermal systems; photovoltaics; wind energy; hydroelectricity generation; wave power systems; biomass; remote area power supplies; energy conservation/auditing.
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) describe various types of sustainable energy technologies and their advantages and disadvantages; (ii) demonstrate an understanding of solar radiation and its impact on energy systems including solar thermal applications and photovoltaics; (iii) demonstrate an understanding of the thermofluid principles that underpin wind, wave and hydroelectric technologies; (iv) demonstrate an appreciation of the social and environmental benefits or disadvantages of sustainable energy technologies; (v) measure and/or analyse the performance of a practical sustainable energy power supply system.

MECH382 Manufacturing Engineering Principles 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MECH215 Fundamentals of Machine Component Design
Co-requisites: ENGG153 Engineering Materials
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to vi
Subject Description: This course introduces students to the basic principles of manufacturing engineering. Topics include an overall perspective on manufacturing; life-cycle and environmental factors; interactions between product design, materials and manufacturing processes; machining processes; metal cutting theory and machinability; joining and assembly processes; computers in manufacturing, NC/CIM/FMS/IMS; introduction to component handling and industrial robotics; basic metrology and geometric tolerancing; process capability and quality control; machining economics; overview of non-conventional processes and advanced manufacturing trends.
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) demonstrate their understanding of the fundamental principles of modern manufacturing; (ii) demonstrate an awareness of the multitude of manufacturing processes available; (iii) understand the interaction between manufacturing design, materials and processes; (iv) analyse processes of manufacturing design and materials processing mathematically; (v) select the best manufacturing process(es) for particular products and/or situations; (vi) understand the importance of manufacturing both locally and on a global basis.

MECH417 Biomedical Engineering 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Mid-session quiz; assignments and final examination: objectives i to vii
Subject Description: This course introduces students to the basic principles of Biomechanics, Anatomy and physiology, musculoskeletal system; human movement: function of muscles and nerves, mechanics, heart and circulation. Dynamics of Human movement and strain rosettes, advanced biomaterials. May include a visit to a biomedical manufacturer and laboratories. Review of Research Problems in Biomechanics. Assumed prior knowledge - Mechanics of Solids (e.g. ENGG251).
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) describe the basic applications of biomechanics to human bodies; (ii) demonstrate a knowledge of basic human anatomy and physiology; (iii) understand the functioning of muscles, nerves, heart and circulation systems; (iv) apply mechanical engineering principles to the musculoskeletal system (v) apply strain rosettes to measure stress and strain in human bodies (vi) identify the equipment and techniques used in measurement and imaging; (vii) apply ergonomic principles to manual handling jobs.

MECH418 Mechanical Behaviour of Engineering Materials 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ENGG251 Mechanics of Solids
Co-requisites: none
Restrictions: none
Exclusions: none
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) demonstrate a general understanding of the theory of elasticity, (ii) solve practical problems requiring the application of the theory of elasticity, (iii) calculate stress and strain in the presence of stress concentrations, temperature fields, and electromagnetic force fields.

MECH421 Manufacturing Process Analysis 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MECH382 Manufacturing Engineering Principles
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination, assignments and laboratory reports: objectives i and ii

Subject Description: Comparative Process Analysis for Rolling, Casting, Forging & Forming; Advanced or 'Non-Traditional' Manufacturing; Joining & Welding; Steel Rolling Technology & Analysis; Metals vs. Plastics Processing; Component Assembly and Disassembly; Automation and Component Handling; CAPP (Computer Aided Process Planning) and Process Optimisation; Process Integration into Manufacturing Systems; and Economic and Ecological Process Considerations.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) demonstrate an in-depth knowledge of the physical processing of materials with particular emphasis on steel rolling, (ii) assess and optimise the various factors involved in the application of modern manufacturing processes.

MECH422 Design and Analysis of Manufacturing Systems 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MECH382 Manufacturing Engineering Principles
Co-requisites: information unavailable
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i, ii and v Short examinations and assignments: objective I to v Project: objectives I to v

Subject Description: Basic concepts and ideas of systems study with particular reference to their use in a manufacturing environment. Categories of manufacturing systems. Principles of the structure and operations of manufacturing systems and their elements (including the human component) especially those systems applied in discrete manufacturing. Techniques of systems analysis including computer simulations. Frameworks for applying systems analysis techniques to the design and analysis of advanced manufacturing systems including intelligent manufacturing systems and those associated with achieving enterprise integration, agile manufacturing and virtual enterprises. Plant layout and facility planning. Case studies and project work involving the design and analysis of advanced manufacturing systems.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) explain a range of techniques and frameworks specifically applicable to the design and analysis of manufacturing systems (ii) identify areas of application for these techniques (iii) construct
Subject Descriptions

computer models simulating manufacturing systems (iv) Complete practical equipment selection, plant layout and facility planning assignments (v) Display competence in applying the systems approach to the design and analysis of manufacturing systems.

**MECH423 Design for Manufacturing 6cp**

**Spring**  Wollongong  On Campus

**Contact Hours:** information unavailable

**Pre-requisites:** MECH382 Manufacturing Engineering Principles

**Co-requisites:** Nil

**Restrictions:** none

**Exclusions:** none

**Assessment:** Final examination: objectives i and ii Other short examinations/tutorials and assignments may be incorporated in the final assessment

**Subject Description:** Introduction to concurrent engineering; application and benefits; concurrent engineering applied to product development, product design, manufacturing process design, and manufacturing systems design; application of engineering tools including CAD, CAM, CAPP and rapid prototyping; design for machining, forming, casting, welding and assembly concepts; design efficiency; industrial ergonomics. General planning concepts in manufacturing; CAD/CAM and CIM/FMS.

**Subject Objectives:** On satisfactory completion of this subject students will be able to: (i) select suitable material for components depending upon their manufacturability and operational use; (ii) analyse the product from the point of view of productivity; (iii) analyse and select a suitable manufacturing method with a view to producing the component in the most economical manner; (iv) apply concurrent engineering to product development, design and manufacture.

**MECH424 Managing Manufacturing Activities 6cp**

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** MECH382 Manufacturing Engineering Principles

**Co-requisites:** Nil

**Restrictions:** none

**Exclusions:** none

**Assessment:** Final examination, group and individual assignments: objectives i to iv

**Subject Description:** The problem of designing and managing a manufacturing activity, scope of manufacturing activities, demand forecasting, product design, capacity planning, scheduling, quality management, maintenance management, safety management, financial management, performance measurement, project presentation and reflection.

**Subject Objectives:** On satisfactory completion of this subject students will be able to: (i) describe the generic situations confronting manufacturing managers; (ii) analyse an existing activity; (iii) determine a set of actions required for improvement; (iv) develop a specification for the design of a manufacturing activity.

**MECH426 Storage and Flow of Bulk Solids 6cp**

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** MECH372 Bulk Solids Handling Technology

**Co-requisites:** Nil

**Restrictions:** none

**Exclusions:** none

**Assessment:** Final examination and other short examinations, tutorials and assignments may be incorporated in the final assessment

**Subject Description:** Characterisation of bulk solids and principles of granular flow; measurement and application of flow properties; bin and hopper flow patterns and geometries; chute design; flow rate predictions of course and fine powders; feeders and dischargers; bin wall pressures; mixing and segregation; case studies.

**Subject Objectives:** On satisfactory completion of this subject students will be able to: (i) identify and apply material properties relevant to the storage and handling of bulk solids; (ii) design bulk solid handling systems taking into account flow rates, feeder/discharger interactions, segregation and wall pressures.

**MECH427 Mechanical Conveying of Bulk Solids 6cp**

**Spring**  Wollongong  On Campus

**Contact Hours:** information unavailable

**Pre-requisites:** MECH372 Bulk Solids Handling Technology

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Final examination: objectives i and ii Other short examinations, tutorials, major design project(s) (iii) and assignments may be incorporated in the final assessment

**Subject Description:** Design, application and characteristics of mechanical conveyors including belt, screw, cable rope way, cable and disk, chain, vibratory and elevating conveyors; unit handling; Standards; safety and case studies.

**Subject Objectives:** On satisfactory completion of this subject students will be able to: (i) select the most suitable mechanical conveyer or transport system for a specific application; (ii) evaluate the main design variables for mechanical conveying or transport systems; (iii) conduct a thorough engineering design investigation for mechanical conveying or transport systems.

**MECH428 Pneumatic Conveying and Dust Control 6cp**

**Autumn**  Wollongong  On Campus

**Contact Hours:** information unavailable

**Pre-requisites:** MECH372 Bulk Solids Handling Technology

**Co-requisites:** ENGG252 Engineering Fluid Mechanics

**Restrictions:** none

**Exclusions:** none

**Assessment:** Final examination: objectives i to v Other short examinations, tutorials, major design project(s) and assignments may be incorporated in the final assessment

**Subject Description:** Basic components of pneumatic transport systems; Modes of conveying; Models to predict conveying parameters; Dense-phase suitability; Conveying characteristics and scale-up procedures; Dust control health and safety requirements; Dust characterisation; Design and operating parameters for dust control systems; Dust networks.

**Subject Objectives:** On satisfactory completion of this subject students will be able to: (i) identify and analyse different methods of feeding and conveying bulk solids; (ii) calculate and predict operating parameters for conveying systems; (iii) evaluate dense-phase conveying suitability using classification techniques; (iv) design simple dust extraction systems, including duct networks; (v) apply the various techniques available to the capture and treatment of dusts and fumes.
MECH429 Physical Processing of Bulk Solids 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: MECH321 Dynamics of Engineering Systems
Co-requisites: MECH365 Control of Machines and Processes
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to vi
Subject Description: Introduction, dynamics associated with acceleration, braking, cornering and rollovers; occupant comfort and response; dynamics of multi-mode mechanical systems; component characteristics and interactions including cabin, chassis, steering and suspensions.
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) predict the frequency response of vehicle like systems and effect design decisions regarding the same; (ii) assess and report on the mechanical suitability of purpose of vehicles and components; (iv) assess and report on the mechanical aspects of the interaction between vehicles and occupants, cargo and the immediate surrounds.
Assessment: Final examination and projects: objectives i to vi

MECH430 Automotive Dynamics 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: MECH321 Dynamics of Engineering Systems
Co-requisites: MECH365 Control of Machines and Processes
Restrictions: none
Exclusions: none
Assessment: Final examination and projects: objectives i to vi
Subject Description: Introduction, dynamics associated with acceleration, braking, cornering and rollovers; occupant comfort and response; dynamics of multi-mode mechanical systems; component characteristics and interactions including cabin, chassis, steering and suspensions.
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) predict the forces acting on vehicles during actual normal and unstable operation; (ii) predict the frequency response of vehicle like systems and effect design decisions regarding the same; (iii) assess and report on the mechanical suitability of purpose of vehicles and components; (iv) assess and report on the mechanical aspects of the interaction between vehicles and occupants, cargo and the immediate surrounds.

MECH431 Computational Fluid Dynamics 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ENGG252 Engineering Fluid Mechanics and MECH201 Engineering Analysis
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Final examination and projects: objectives i to vi
Subject Objectives: i. understand the fundamental concepts, the potential and the limitations of computational fluid dynamics; ii. evaluate the accuracy and quality of computer results pertaining to fluid flows; iii. analyse the stability, consistency and convergency of computational schemes; iv. develop techniques for the computations of compressible and incompressible fluid flow.

MECH438 Fluid Power 6cp
Contact Hours: information unavailable
Pre-requisites: ENGG252 Engineering Fluid Mechanics
Co-requisites: MECH365 Control of Machines and Processes
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to vi
Subject Description: Characteristics of fluid power components for the provision of power and/or control in machines and mechatronics. Synthesis of systems, integration with Programmable Logic Controller (PLC) units and remote controllers. Industrial applications of fluid power, design application, case study.
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) understand and apply the principles of fluid mechanics to hydraulic and pneumatic systems; (ii) understand the function of various components including PLC units; (iii) understand and apply component design and selection criteria; (iv) design basic hydraulic and pneumatic systems.

MECH439 Special Topics in Mechatronics 6cp
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: To be advised on the subject handout at the beginning of the session.
Subject Description: There is no set syllabus for this subject. It is intended to be offered normally on a specialised mechatronics topic given by members of the Faculty, visiting academic staff or engineering consultants.
Subject Objectives: Students will acquire the following skills: statistical methods, information, computer, generic skills/competencies as a result of their participation in this subject. 1. The ability to access, locate, critically analyse, interpret, evaluate and use information. 2. The ability to develop a command of existing knowledge in a chosen discipline. 3. Willingness to explore the existing body of knowledge. 4. The ability to identify, respond to and devise solutions to problems. 5. The ability to organise and synthesise information, in a logical format, for various applications.

MECH440 Fluid Dynamics and Heat Transfer for Mechatronics 6cp
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: MATH142 or MATH188
Restrictions: none
Exclusions: none
Assessment: Final examination, mid session quizzes, tutorial assessments and laboratory work.

Subject Description: This subject is designed to introduce elementary fluid mechanics and heat transfer concepts to mechatronic engineers. The topics include fluid properties, hydrostatics, manometry, Bernoulli’s, mass and energy, fluid flow in pipes and their applications and dimensional analysis; fundamentals of heat transfer and how to analyse situations involving heat transfer.

Subject Objectives: On successful completion of this subject, students will be able to: 1. Understand fundamental engineering concepts relating to fluid properties. 2. Derive and solve hydrostatics problems encountered in manometers, plane and curved surfaces and buoyant bodies; 3. Solve problems associated with the 3 fundamental fluid flow equations namely equations of mass, momentum and energy; 4. Carry out analysis of problems associated with fluid flow in pipes; 5. Analyse thermal engineering problems relevant to mechatronic engineering; 6. Measure fluid flow and heat transfer using simple measuring principles.

MECH442 Sustainable Energy in Buildings 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to vii Assignments: objectives i to vi Lab report: objective vii Other quizzes and presentations may be included in the final assessment.

Subject Description: Fundamental principles of the performance of buildings with particular regard to thermal comfort and ventilation; analysis and design of conventional air conditioning systems to appropriate Australian Design Standards; passive solar design of buildings; energy conservation in buildings; embodied energy in buildings; natural ventilation systems; and refrigeration systems.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) analyse conventional mechanical air conditioning processes such as heating and dehumidification; (ii) analyse the performance of naturally ventilated buildings; (iii) use basic passive solar design principles in formulating the concept design of a building; (iv) determine building heating and cooling loads for equipment selection purposes; (v) design sustainable air conditioning systems for buildings; (vi) analyse various types of industrial refrigeration systems including vapour compression and absorption systems; (vii) measure the performance of air conditioning and refrigeration systems.

MECH468 Computer Control of Machines and Processes 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MECH321 Dynamics of Engineering Systems
Co-requisites: MECH365 Control of Machines and Processes
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to iii Other short examinations, assignments, laboratory experiments may be incorporated in the final assessment: objectives ii and iii

Subject Description: State-variable modelling; design of state variable feedback systems, controllability, observability, optimal control, pole placement using state feedback, internal model design; digital control systems, z-transform, stability analysis in the z-domain; performance and robustness of closed loop computer controlled systems, implementation aspects.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) analyse a dynamic system using state variable techniques; (ii) design, simulate, implement and evaluate multivariable control systems; (iii) design, simulate, implement and evaluate the performance and robustness of digital controllers for mechanical systems and industrial processes.

MECH474 Systems Engineering and Life Cycle Management 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Nil
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to v Other short examinations, assignments, laboratory experiments may be incorporated in the final assessment.

Subject Description: Phases of life cycle of products and industrial equipment, life cycle costing, economics and models, manufacturing and environmental considerations, cost estimations, analyses and design, logistic support, maintainability, availability, interface control, system integration, testing and performance evaluation, installation procedures, asset management, disposal purchase/replacement policies and decision making.

Subject Objectives: On satisfactory completion of this subject students will be able to: (i) explain the principles of systems engineering and the systems design process; (ii) explain the systems concept in the context of the systems life cycle; (iii) explain significant design concepts affecting operational feasibility and how these can be applied to different situations; (iv) explain the technique of life cycle costing and how it could be applied to all stages of the system life cycle; (v) identify and explain mathematical tools and physical modelling techniques commonly used in systems analysis and how they can be applied in the systems engineering process; (vi) explain the systems engineering approach by reference to case studies; (vii) develop a Systems Engineering Management Plan for practical application.

MECH479 Sustainable Transport and Engine Technologies 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MECH341 Thermodynamics and MECH226 Machine Dynamics
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to iii Other short examinations, assignments, laboratory experiments may be incorporated in the final assessment.

Subject Description: Conventional and novel engine technology and design; strategies for reducing emissions; alternative fuels; solar vehicles; fuel cells; and hybrid vehicles.
Subject Objectives: On satisfactory completion of this subject students will be able to: (i) describe conventional engine systems, and estimate energy requirements and pollution outcomes; (ii) describe alternative engine systems and identify their key features; (iii) evaluate and assess the potential of alternative engine technologies and fuels to enhance the sustainability of energy use in this field; (iv) advise on the selection of technology for transport needs.

MECH481 Special Topics in Mechanical Engineering 1 6cp
Spring Wollongong Flexible
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: To be advised on the subject handout at the beginning of the session.
Subject Description: There is no set syllabus for this subject. It is intended to be offered normally on a specialised mechanical engineering topic given by members of the Department, visiting academic staff or engineering consultants.
Subject Objectives: To be advised on the subject handout at the beginning of the session.

MECH482 Special Topics in Mechanical Engineering 2 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: To be advised on the subject handout at the beginning of the session.
Subject Description: There is no set syllabus for this subject. It is intended to be offered normally on a specialised mechanical engineering topic given by members of the Department, visiting academic staff or engineering consultants.
Subject Objectives: To be advised on the subject handout at the beginning of the session.

MECH487 Systems Analysis for Maintenance Management 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: MATH283 Mathematics 2E for Engineers Part 1
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination, individual assignment and group assignment: objectives i to vi
Subject Description: Maintenance Requirements Analysis Methodology, Qualitative Methods of Failure Mode Identification, Reliability Theory for Systems, Reliability Data Analysis, Preventive Replacement Policies, Selection of Inspection Intervals, Grouping of Maintenance Actions, Repair/Replace Decisions, Practical considerations in

Maintenance Requirements Analysis, Auditing Maintenance Requirements Analysis outcomes.

Subject Objectives: On satisfactory completion of this subject students should be able to: (i) demonstrate an understanding of the available theory in the area of maintenance requirements analysis; (ii) apply appropriate theory to the problem of maintenance requirements analysis; (iii) demonstrate an understanding of basic reliability theory and terminology; (iv) explain the uses, and limitations of use, of simple reliability modelling techniques in making decisions on maintenance intervals; (v) design appropriate methods for performing maintenance requirements analysis on specific equipment given a specific situation; (vi) audit the analysis of others to determine the adequacy of the analysis.

MECH488 Introduction to Condition Monitoring in Mechanical Engineering 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: MECH226 Machine Dynamics
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Final examination: objectives i to vi Assignment and other quizzes and tutorials may be incorporated in the final assessment.
Subject Description: Introduction to Condition Based Maintenance (CBM); Tribology and Condition Based Maintenance; Condition Monitoring using Signal Diagnostics; CBM of Bearings, Pumps, Fans, Motors, Gearboxes, Hydraulic and Electrical Equipment; Failure Case Studies and Issues in Implementation; Artificial Intelligence in Condition Monitoring.
Subject Objectives: On satisfactory completion of this subject students should be able to: (i) demonstrate an understanding of available condition monitoring techniques and their application; (ii) identify the required conditions for specific condition monitoring techniques (that make CBM a potential effective elementary maintenance rule in practice cases); (iii) demonstrate knowledge of the failure diagnostic techniques available and how they work; (iv) identify possible techniques for application to specific problems.

MECH489 Maintenance Management 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: ENGG361 Engineering Management
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination, individual assignment and group assignment: objectives i to iii
Subject Objectives: On satisfactory completion of this subject students should be able to: (i) describe the generic situations confronting maintenance managers; (ii) analyse an existing activity and determine a set of actions required for improvement; (iii) develop a specification for design of a maintenance activity and a maintenance system.
MINING ENGINEERING

MINE221 Underground Coal Mining Methods 6cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments/Seminars: objectives i to vi Mid-session examination: objectives i to vi 2 hour final examination: objectives i to vi
Subject Description: Access to underground coal seams, Coal mining methods, bord and pillar, longwall, mininwall, thick seam, multi-seam and horizon mining and highwall mining, Mechanisation, powered loaders and coal cutting technology, coal transport to include chain and belt conveyors, man and material transport, rope haulage and hoisting, Ventilation systems and field visits
Subject Objectives: A student who has completed this subject will be able to: (i) understand the methods of access to underground coal deposits and various methods of coal extraction used in Australia and overseas; (ii) select the most suitable method of mining a particular coal deposit; (iii) evaluate different types of ground support systems for various mining methods; (iv) understand various methods of coal cutting and coal transportation from the coal face to the surface; (v) appreciate the statutory requirements related to coal mining systems; (vi) design an underground mining operation based on the knowledge gained as a result of the course studied.

MINE311 Surface Mining and Blasting 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments/Seminars: objectives i to vi Mid-session examination: objectives i to vi 2 hour final examination: objectives i to vi
Subject Objectives: On successful completion of this subject students should be able to: (i) understand how different types of blasting accessories work; (ii) design blasting patterns for different mining conditions; (iii) understand different material handling systems for surface mine operations; (iv) be familiar with different types of surface mining operations.

MINE312 Mine Ventilation 6cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Subject Objectives: On successful completion of this subject students should be able to: (i) demonstrate a knowledge of the principles of Mine Ventilation; (ii) understand why it is necessary to mechanically ventilate a mine; (iii) show how to analyse data obtained from ventilation surveys and reduce it to a form which can be used for ventilation planning; (iv) determine the quantity of air required at each point of a mine based on the Mines Regulations Act. (v) understand why it is necessary to control air quality as well as quantity in mine ventilation; (vi) demonstrate a knowledge of how to control air quality in the underground environment

MINE321 Underground Metal Mining 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Nil
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Assignments/Seminars: objectives i to vi Mid-session examination: objectives i to vi 2 hour final examination: objectives i to vi
Subject Description: Underground Metalliferous ore deposit development, mining methods for regular and irregular deposits, open and supported stoping, sub level stoping, VCR, cuts and fill stoping, shrinkage stoping, block caving. Blasting and stope ventilation, Mechanisation to include drilling machines, LHD, track and Trackless transport. Pumps and Compressors, regulations and field visits
Subject Objectives: On successful completion of this subject students should be able to: (i) understand the methods of access to underground metalliferous mines and various methods of mining; (ii) select the most suitable method of mining of a particular ore deposit; (iii) understand the means of transporting broken ore from the stope to the surface; (iv) appreciate the statutory requirements related to metalliferous mining system; (v) ability to design blasting patterns for heading development and stoping operation; (vi) ability to design an underground metalliferous mining operation based on the knowledge gained from the course undertaken.
MINE323 Mining Geomechanics 6cp
Spring Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none

Assessment: 2 hour final examination: objectives i to v
Assignments and short examination will be taken into consideration: objectives i to v

Subject Description: Mechanical properties of rock, in situ properties of rock mass, index properties of rocks, pre-mining state of stress. Stress distribution around underground openings. Excavation design in massive elastic rock, stratified rock and jointed rock. Support and reinforcement - pillar design, rock bolting systems, passive support systems, longwall powered supports and mine backfill. Surface subsidence and methods of limiting damage due to subsidence. Rock bursts and bumps. Monitoring rock mass performance. Laboratory experiments.

Subject Objectives: On successful completion of this subject students should be able to: (i) appreciate the effect insitu rock properties and stress state have on the stability of underground mining excavations; (ii) design major elements of support and supporting structures in underground mining; (iii) evaluate regional or local instability of underground mining structures and suggest possible remedial measures; (iv) integrate stability of mining structures into mine design; (v) monitor rock mass performance.

MINE411 Health & Safety in Mines 6cp
Autumn Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: MINE221 Underground Coal Mining, MINE311 Surface Mining and Blasting, MINE321 Underground Metal Mining
Co-requisites: none
Restrictions: none
Exclusions: none

Assessment: 2 hour final examination: objectives i to iii
Assignments and short examination will be taken into consideration: objectives i to iii


Subject Objectives: On successful completion of this subject students should be able to: (i) appreciate the role of minerals processing in the Australian economy, and demonstrate understanding of the fundamental ore processing principles and methods; (ii) identify the recovery difficulties associated with a given mineral, and being able to select the most economical methods; (ii) understand the procedures and analyses associated with valuation of mining projects.

MINE421 Minerals Benefication 6cp
Spring Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none

Assessment: Final examination: objectives i to v
Class test: objective i to vi
Tutorials: objectives iii to v
Laboratory and project reports: objectives i to vi

Subject Description: The subject is designed to provide students with detailed knowledge of the art of processing raw minerals to yield marketable products using physical, chemical and electro-magnetic techniques. The course contents will cover: Metallic and non-metallic ore, process flow charts and unit operations, sampling systems, slurry streams and mass balancing, concentration and recovery, net smelter return, particle size analysis, liberation and comminution, crushing and grinding, screening, classification, gravity concentration, flotation, dewatering, tailings disposal and industrial re-use. The lectures and tutorials will be complemented with laboratory tests, project work and a field trip.

Subject Objectives: On successful completion of this subject students should be able to: (i) appreciate the role of minerals processing in the Australian economy, and demonstrate understanding of the fundamental ore processing principles and methods; (ii) identify the recovery difficulties associated with a given mineral, and being able to select the most economical processing techniques; (iii) ability to design the optimum flow sheets, and perform the appropriate mass balancing computations for a given circuit operation; (iv) understand the theoretical limitations of Physics and Dynamics when applied to real-life processing units, and maximise their efficiency using engineering judgement and design alterations; (v) recognise the major environmental problems associated with tailing disposal, and to familiarise with appropriate technologies contributing towards waste reduction and re-use.

MINE422 Mine Planning and Development 6cp
Spring Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none

Assessment: No formal examinations Assignments and submission of a mine project report: objectives i to iv

Subject Description: Each student will be given basic information of a mining prospect including borehole data,
surface topography and projected output. The student will be required to submit a comprehensive report of the mine project together with appropriate plans.

**Subject Objectives:** On successful completion of this subject students should be able to: (i) understand the fundamentals of both surface and underground mine design and planning; (ii) elect the most suitable method of mining a particular deposit safely and economically; (iii) understand the hazards associated with planning a mining operation whereby the deposit is liable to fire and explode due to the excessive presence of mine gases or selfheating; (iv) understand the importance of a skilled workforce in carrying out mine development safely.

**MINE431 Mine Water**

Contact Hours: Subject not on offer in 2002.

Pre-requisites: Nil

Co-requisites: Nil

Restrictions: none

Exclusions: none

Assessment: 2 hour final examination: objectives i to v Other short examinations/tutorials/projects may be taken into consideration: objectives i to v


**Subject Objectives:** On successful completion of this subject students should be able to: (i) understand the origin of mine water; (ii) understand the problems caused by water in mining; (iii) understand the hydrological and hydrogeological factors affecting mine drainage; (iv) understand the design of mine workings below bodies of water; (v) understand the methods of mine dewatering for mines.

**MINE433 Geostatistical Ore Reserve Estimation 6cp**

Contact Hours: Subject not on offer in 2002.

Pre-requisites: Nil

Co-requisites: Nil

Restrictions: none

Exclusions: none

Assessment: Final examination: objectives i to iii Class test: objectives i to iii Assignments: objectives i to iii


**Subject Objectives:** On successful completion of this subject students should be able to: (i) understand the origins of ore reserve methods; (ii) appreciate the practical limitations of ore reserve estimators; (iii) understand the optimally design of an exploration drilling program by locating the best drillhole positions.

**MINE434 Special Topics in Mining Engineering 6cp**

Contact Hours: Subject not on offer in 2002.

Pre-requisites: Nil

Co-requisites: Nil

Restrictions: none

Exclusions: none

Assessment: Final examination: objectives i to v Class test: objectives i to vi Tutorials: objectives iii to vi) Laboratory and project reports: objectives i to vi

**Subject Description:** There is no set syllabus for this subject. It is intended that it normally be offered on a specialised mining engineering topic given by members of the Department or visiting academic staff or engineering consultants.

**Subject Objectives:** On successful completion of this subject students should be able to: (i) appreciate the role of and importance of the topic taught to mining engineering, and demonstrate understanding of the subject; (ii) understand the procedures and analysis associated with the topics involved; (iii) apply the knowledge gained to the practice and in compliance with the legal aspects of the mining rules and regulations.

**MINE438 Environmental Impact of Mineral Operations 6cp**

Spring Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: none

Co-requisites: information unavailable

Restrictions: none

Exclusions: none

Assessment: 2 hour final examination: objectives i to v Assignments and short examination will be taken into consideration: objectives i to v

**Subject Description:** Environmental impact of surface and underground mining - visual impact assessment, air pollution, noise and vibration. Waste solids management, water pollution and acid drainage. Restoration of mine sites, land use, subsidence and socio-economic effects of mining. Field Visits.

**Subject Objectives:** On successful completion of this subject students should be able to understand: (i) the environmental impact of various types of mining operation; (ii) environmental considerations in mine planning and opening new mining operations; (iii) surface environmental effects during the working life of mines; (iv) planning of and procedures to be followed during mine closure; (v) environmental aspects after mine closure.
Faculty of Health & Behavioural Sciences

Member Units

Biomedical Science
Nursing
Psychology
Public Health

Degrees Offered

Bachelor of Arts
Bachelor of Exercise Science & Rehabilitation
Bachelor of Health Science in Indigenous Health Studies
Bachelor of Nutrition and Dietetics
Bachelor of Medical Science
Bachelor of Nursing
Bachelor of Psychology
Bachelor of Science

The subjects comprising the Health and Behavioural Sciences major studies are:

a) the subjects offered by the Departments of Biomedical Science and Psychology and the Graduate School of Public Health, as listed in the General Schedule, together with

(b) subjects offered by other academic units which are included in one or more of the approved major studies.

Double Degrees

Bachelor of Medical Science - Bachelor of Commerce
Bachelor of Psychology – Bachelor of Commerce
Bachelor of Science (Exercise Science) - Bachelor of Commerce
Bachelor of Science (Nutrition) - Bachelor of Commerce
Bachelor of Science (Psychology) - Bachelor of Commerce
Bachelor of Science - Bachelor of Laws (Health and Behavioural Sciences Major)
Bachelor of Medical Science - Bachelor of Laws

Other combinations may be available with other Faculties after consultation with the Sub-Dean.

Degrees with TAFE NSW

Bachelor of Health Science in Indigenous Health Studies (includes TAFE Advanced Diploma in Aboriginal and Torres Strait Islander Health)
Bachelor of Medical Science/ TAFE Diploma of Health Science (Pathology Techniques)
Bachelor of Nutrition and Dietetics/ TAFE Certificate IV in Hospitality (Catering Operations)
Bachelor of Science (Nutrition)/ TAFE Certificate IV in Hospitality (Catering Operations)

Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/ or contact the relevant Faculty.
Bachelor of Arts (Health Science)
(Not available to students commencing in 2002)

The 'health industry' is one of Australia's largest. Until recent years health policy has been very much the province of professional groups, and the public at large through its elected representatives or governmental bureaucracies has played a relatively minor part. All this is now changing with the realisation that health is largely a function of personal choice and social organisation, that we must decide health policies, and that, as with any commodities, we must choose what kind of resources and how much we allocate to achieve health goals. The major in health science may be taken by students who expect to be employed in the health system, but it should be considered by students who wish to be informed about a subject of interest to all Australians. A number of postgraduate options are available to allow graduates to proceed into masters degrees (e.g. in public health, health policy and management) or into research programs.

For the Bachelor of Arts in Health Science, candidates must undertake all subjects prescribed for the Health Science major together with a major area of study from the Faculty of Arts.

Bachelor of Arts (Psychology)

For the Bachelor of Arts (Psychology), Course Code 708, candidates must undertake the subjects listed below; as well as additional subjects from the Arts Schedule, the Health & Behavioural Sciences Schedule or the General Schedule to make up the required 144 credit points. Students enrolled in Course Code 702, must comply with the Bachelor Degree Rules in the Faculty of Arts and should consult an Arts Faculty adviser.

100-Level
PSYC121 Foundations of Psychology A 6
PSYC122 Foundations of Psychology B 6
PSYC123 Theory, Design and Statistics in Psychology 6

200-Level (Options are available. See following notes.)
PSYC216 Psychology of Physical Activity 6
PSYC231 Personality 6
PSYC232 Research Methods and Statistics 6
PSYC234 Biological Psychology and Learning 6
PSYC235 Introduction to Psychological Assessment 6
PSYC236 Cognition and Perception 6
PSYC241 Developmental & Social Psychology 6

# Completion of PSYC232 prior to enrolment in PSYC235 is strongly recommended.

1. Students intending to complete three years of Psychology only, must complete PSYC232, plus three Psychology elective subjects. An elective must be a 200 level subject, excluding PSYC216, and must include at least one from each of the following groups:
   Group A - PSYC231, PSYC241
   Group B - PSYC234, PSYC236

2. Students intending to proceed to an honours year in Psychology must complete PSYC232 and PSYC235, together with three electives from the following subjects: PSYC231, PSYC241, PSYC234, PSYC236.

300-Level
24 credit points of Psychology at 200-level (excluding PSYC216) should be completed as a general pre-requisite to 300 level subjects. Further specific pre-requisites are indicated in brackets.

PSYC315 Psychology of Abnormality (PSYC231) 8
PSYC317 Advanced Learning (PSYC234) 8
PSYC318 Change Throughout the Life Span (PSYC231) 8
PSYC345 Advanced Cognition (PSYC236) 8
PSYC347 Assessment and Intervention 8
PSYC348 History and Metatheory of Psychology 8
PSYC349 Visual Perception 8
PSYC350 Social Behaviour and Individual Differences (PSYC241) 8
PSYC352 Psychophysiology (PSYC234) 8
PSYC354 Design and Analysis (PSYC232) 8

Note: Subjects to the value of at least 90 credit points must be selected from the Arts or Health and Behavioural Sciences Schedules.
1. Students intending to complete three years of Psychology only, must complete three Psychology electives, including at least one from each of the following groups:
   Group A - PSYC317, PSYC345, PSYC349, PSYC352
   Group B - PSYC315, PSYC318, PSYC347, PSYC348, PSYC350

2. Students intending to proceed to Honours in Psychology must complete PSYC348 and PSYC354 together with three electives which must include at least one from: PSYC317, PSYC345, PSYC349, PSYC352

Additional subjects may be selected from the Health and Behavioural Sciences or Arts Schedules or the General Schedule to make up the required 144 credit points.

Bachelor of Exercise Science & Rehabilitation

The Bachelor of Exercise Science and Rehabilitation degree requires 4 years of full-time study and the completion of 192 credit points of approved subjects. 178 credit points of subjects represent core study while the balance of the credit points may be taken as elective subjects from the Health and Behavioural Science or Science Schedules. Further, at least 88 credit points will be at 300- and/or 400-level, including at least 40 credit points at the 400-level.

The design of the Bachelor of Exercise Science and Rehabilitation course emphasises professional development and provides the student with opportunities to gain clinical skills through work experience within the department's Exercise Science and Rehabilitation Centre and other clinical application placement programs operating within the community. Graduates are trained to utilise exercise as an intervention to maintain and improve health and fitness and rehabilitate after injury or disease.

Graduates may apply for professional accreditation from the Australian Association for Exercise and Sports Science (AAESS) and practice as professional Exercise Physiologists or Sport Scientists after completing a period of post-graduation work experience.

Undergraduate students wishing to transfer into the Bachelor of Exercise Science and Rehabilitation degree may make application upon completion of the first two years of the BSc (Exercise Science) or BSc (Exercise Science and Nutrition) degrees (or other approved degree programs). Selection is based on University results over that time.

For the Bachelor of Exercise Science & Rehabilitation the following subjects must be undertaken:

**Year 1**
- BMS101 Systemic Anatomy 6
- BMS103 Human Growth, Nutrition and Exercise 6
- CHEM101 Chemistry 1A: Physical and General Chemistry (or CHEM104) 6
- PSYC101 Introduction to Behavioural Science 6
- BMS112 Human Physiology I: Principles and Systems 6
- BIOL103 Molecules, Cells and Organisms 6
- CHEM102 Chemistry 1B: Organic and Physical Chemistry (or CHEM105) 6
- STAT151 Introduction to the Concept and Practice of Statistics 6

**Year 2**
- BMS202 Human Physiology II: Control Mechanisms 6
- BMS211 Foundations of Biomechanics 6
- BIOL213 Principles of Biochemistry 6
- PSYC216 Psychology of Physical Activity 6
- BMS203 Musculoskeletal Functional Anatomy 6
- BMS204 Introduction to Pathophysiology 6
- BMS242 Exercise Physiology 6

plus a further subject from:
- BIOL214 Biochemistry of Energy and Metabolism 6
- MGMT102 Communications 6
- PHN103 Introduction to Public Health 6

**Year 3**
- BMS342 Advanced Exercise Physiology 8
- BMS344 Cardiorespiratory Physiology 8
- BEXS351 Exercise Prescription 1: Strength and Conditioning 8
- BMS346 Motor Control and Dysfunction 8
- BEXS352 Exercise Prescription 2: Aerobic Fitness 8
Course Structures

plus a further subject from:

BMS341 Clinical Biomechanics 8

or another approved subject.

Year 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>BEXS411</td>
<td>Practicum in Exercise Science A</td>
<td>8</td>
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<tr>
<td>BEXS451</td>
<td>Exercise Rehabilitation 1: Musculoskeletal</td>
<td>8</td>
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<tr>
<td>BEXS452</td>
<td>Exercise Rehabilitation 2: Cardiorespiratory and Neurological</td>
<td>8</td>
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<tr>
<td>BMS303</td>
<td>Research Topics in Exercise Science</td>
<td>8</td>
</tr>
<tr>
<td>BEXS402</td>
<td>Exercise in Special Populations</td>
<td>8</td>
</tr>
<tr>
<td>BEXS412</td>
<td>Practicum in Exercise Science B</td>
<td>8</td>
</tr>
</tbody>
</table>

Bachelor of Health Science in Indigenous Health Studies

The Bachelor of Health Science in Indigenous Health Studies is a flexibly delivered degree offered in partnership with the Illawarra Institute of Technology (TAFE NSW) Shellharbour campus. The degree program is open to both Indigenous and non-Indigenous students and provides students interested in the health of Aboriginal and Torres Strait Islander people with the knowledge and skills to effectively address Aboriginal community health issues.

The degree requires 3 years of full-time study (or part-time equivalent) and the completion of 144 credit points of approved subjects. During the program students complete the Advanced Diploma in Aboriginal and Torres Strait Islander Health offered by TAFE NSW which is recognised for 72 credit points of advanced standing towards the degree. This is followed by 1.5 years full-time study (or part time equivalent) in the Indigenous Health program at the University to complete a further 72 credit points of approved subjects.

The program is fully articulated so that students may enter and exit at each level in the program while pursuing a career in Aboriginal Health. A significant placement component is included to provide practical as well as theoretical knowledge and skills in Aboriginal culture, health and community development.

The TAFE component of the course is offered in flexible delivery mode. Students completing the course will be concurrently enrolled at both the University of Wollongong and the Illawarra Institute of Technology. Students should be aware that the TAFE component of the program begins in February, earlier than normal session start.

Students should seek advice from an academic adviser at the University or at TAFE before enrolling in this program:

Ms Sarnia Goudie or Ms Marian Martin

Lecturers, Department of Nursing,
University of Wollongong
Phone: 4221 3339
Fax: 4221 3137
Email: samia_goudie@uow.edu.au
Email: marian_martin@uow.edu.au

Ms Sandra Bolack

Head Teacher, Nursing Unit,
The Illawarra Institute of Technology
(TAFE NSW)
Shellharbour campus
Phone: 4295 2289
Fax: 4295 2114
Email: sandra.bolack@det.nsw.edu.au

Students wishing to undertake part time study in the TAFE component must discuss this with the TAFE coordinator.
Aims & Objectives of the Course:

The Bachelor of Health Science in Indigenous Health Studies provides:

♦ Primary health care workers with the knowledge and skills to effectively address Aboriginal and Torres Strait Islander community health, community development and cultural issues;

♦ Indigenous health workers with professional accreditation, based on a competency based program that is linked to the Aboriginal Health Worker award.

At the completion of this degree the graduate will have Community Development Skills in:

1. management;
2. advocacy;
3. liaison with outside agencies;
4. negotiation, particularly at a community level;

and Health Professional Skills in:

1. health management;
2. health promotion;
3. health planning;
4. counselling;
5. inter-agency referral;
6. monitoring of the health status of the community.

Degree structure

The degree consists of the TAFE Advanced Diploma of Aboriginal and Torres Strait Islander Health for 72 credit points of advanced standing, with an additional 72 credit points of UOW subjects that provide advanced and theoretical knowledge and skills in Aboriginal culture, health and community development, and research in Aboriginal Health.

TAFE Advanced Diploma of Aboriginal & Torres Strait Islander Health

(1.5 years full-time equivalent)

includes subjects in:

Aboriginal History and Culture
Aboriginal Health Issues
Mental Health
Drug and Alcohol
Nutrition
Management
Mentor Training
Health Promotion
Environmental Health
Counselling

The TAFE Advanced Diploma of Aboriginal & Torres Strait Islander Health comprises

Certificate III in Aboriginal and Torres Strait Islander Health
Certificate IV in Aboriginal and Torres Strait Islander Health
Diploma in Aboriginal and Torres Strait Islander Health
Advanced Diploma in Aboriginal and Torres Strait Islander Health

This is a fully articulated (nested) program, with multiple entry and exit points, and Recognised Prior Learning criteria.

Students in the degree complete an additional 72 credit points of University of Wollongong subjects comprising:

NURS140 Introductory Communication Studies 6
SOC111 Sociological Dimensions of Nursing 6
NURS240 Current Services in Aboriginal Health 6
NURS242 Functional Community Structures 6
NURS243 Special Topic (Workplace Analysis) 6
NURS341 Special Topic 8
NURS343 Community Health Development: Theory and Practice* 8
Course Structures

NURS344  Community Health: Theory, Research and Practice  *  8
NURS345  Equivalent to NURS327 Health and Human Ecology*  6
* Subject to approval

plus at least 12 credit points to be selected from
ABST150  Introduction to Aboriginal Australia  6
ABST200  Aboriginal History Since Invasion  6
ABST300  Indigenous Theories of De-Colonisation  8
or other subjects approved by the Head of Department

Total 144 credit points.

Bachelor of Medical Science

The Bachelor of Medical Science degree requires 3 years of full-time study and satisfactory completion of 144 credit points including at least 24 credit points at 300-level. The degree provides a solid foundation of study in areas such as anatomy, physiology, chemistry, biochemistry, neuroscience, biology and research methods.

The Bachelor of Medical Science degree provides an excellent first degree for students wishing to enrol in post-graduate studies in medicine, teaching or research. Students seeking a research orientation are encouraged to complete a BSc (Honours) year and then seek enrolment in either a MSc – Research or a PhD degree program.

The Bachelor of Medical Science degree may also be taken as a double degree program with the Bachelor of Commerce (BMedSc/BComm) and completed in four and a half years of full-time study.

The Bachelor of Medical Science degree may also be taken as a double award program with the TAFE Diploma of Health Science (Pathology Techniques).

For the Bachelor of Medical Science, the following subjects must be undertaken:

Year 1

Autumn Session
BMS101  Systemic Anatomy  6
BMS103  Human Growth, Nutrition and Exercise  6
CHEM101  Chemistry 1A: Physical and General Chemistry (or CHEM104)  6
PSYC101  Introduction to Behavioural Science  6

Spring Session
BMS112  Human Physiology 1: Principles and Systems  6
BIOL103  Molecules, Cells and Organisms  6
CHEM102  Chemistry 1B: Organic and Physical Chemistry (or CHEM105)  6
STAT151  Introduction to the Concept and Practice of Statistics  6

Year 2

Autumn Session
BMS202  Human Physiology II: Control Mechanisms  6
BIOL213  Principles of Biochemistry  6
BMS200  Histology  6

plus a further subject from the following:
BMS211  Foundations of Biomechanics  6
CHEM212  Organic Chemistry II  6
STS215  Science, Technology and Progress  6

Spring Session
BIOL214  Biochemistry of Energy and Metabolism  6
BMS204  Introduction to Pathophysiology  6

plus a further two subjects from the following:
BMS242  Exercise Physiology  6
BMS203  Musculoskeletal Functional Anatomy  6
BIOL215  Introductory Genetics  6

or other subjects approved by the Head of Department
Faculty of Health and Behavioural Sciences

Year 3

**Autumn Session**
- BMS352 Fundamentals of Neuroscience 8
- plus a further two subjects from:
  - BMS302 Research Topics 8
  - BMS311 Nutrients and Metabolism 8
  - BMS342 Advanced Exercise Physiology 8
  - BMS344 Cardiorespiratory Physiology 8
  - BIOL320 Molecular Cell Biology 8
  - CHEM350 Principals of Pharmacology 8
- or other subjects approved by the Head of Department

**Spring Session**
- BMS300 Regional Anatomy 8
- plus a further two subjects from:
  - BMS302 Research Topics 8
  - BMS345 Advanced Topics in Pathophysiology 8
  - BMS346 Motor Control and Dysfunction 8
  - CHEM320 Biological Chemistry 8
  - PHIL380 Bioethics 8
- or other subjects approved by the Head of Department

** Bachelor of Medical Science/TAFE Diploma of Health Science (Pathology Techniques) **

The double award of Bachelor of Medical Science/TAFE Diploma of Health Science (Pathology Techniques) provides opportunities for improved vocational outcomes, and the development of practical skills through simultaneous enrolment in the university degree and the TAFE diploma. This double award can be completed in 4 years of full-time study.

For the Bachelor of Medical Science/Diploma of Health Science (Pathology Techniques), the following subjects must be undertaken:

Note: BOLD type indicates TAFE component

| **Year 1** |
|------------------|------------------|------------------|
| BMS101 Systemic Anatomy 6 |
| CHEM101 Chemistry 1A: Physical and General Chemistry (or CHEM104) 6 |
| PSYC101 Introduction to Behavioural Science 6 |
| BMS103 Human Growth, Nutrition and Exercise 6 |
| BMS112 Human Physiology I: Principles and Systems 6 |
| BIOL103 Molecules, Cells and Organisms 6 |
| CHEM102 Chemistry 1B: Organic and Physical Chemistry (or CHEM105) 6 |
| STAT151 Introduction to the Concept and Practice of Statistics 6 |

| **Year 2** |
|------------------|------------------|------------------|
| BMS202 Human Physiology II: Control Mechanisms 6 |
| BIOL213 Principles of Biochemistry 6 |
| BMS200 Histology 6 |
| 4304E Biomedical Techniques II 54 hrs |
| 4304Q Histotechnology I 45 hrs |
| 4304M Microscopy Skills 54 hrs |

| **Spring Session** |
|------------------|------------------|------------------|
| BIOL214 Biochemistry of Energy and Metabolism 6 |
| BMS204 Introduction to Pathophysiology 6 |
| MGMT110 Introduction to Management 6 |
| MGMT321 Management of Occupational Health and Safety 6 |
Course Structures

Year 3

**Autumn Session**
- 2448A Personal Computer 27 hrs
- 8979S Dealing with Conflict 18 hrs
- 4304P Microbiology I 45 hrs
- 4305A Haematology I 45 hrs
- 4305B Clinical Chemistry I 90 hrs
- 4305C Medical Microbiology I 45 hrs
- 4305D Histotechnology II 45 hrs

**Spring Session**
- 8979K Client Interaction 18 hrs
- 4304Y Laboratory Operations 36 hrs
- 2071A Immunohaematology 45 hrs
- 4305F Haematology II 45 hrs
- 4305H Medical Microbiology II 45 hrs

plus three of the following subjects:
- 4305G Haematology III 45 hrs
- 4305J Medical Microbiology III 45 hrs
- 4305K Histotechnology III 45 hrs
- 4305L Clinical Chemistry II 45 hrs

**Year 4**

**Autumn Session**
- BMS352 Fundamentals of Neuroscience 8

plus a further 16 credit points from:
- BMS302 Research Topics 8
- BMS311 Nutrients and Metabolism 8
- BMS344 Cardiorespiratory Physiology 8
- BIOL320 Molecular Cell Biology 8

or other approved subjects

**Spring Session**
- BMS300 Regional Anatomy 8

plus a further 16 credit points from:
- BMS302 Research Topics 8
- BMS345 Advanced Topics in Pathophysiology 8
- BMS346 Motor Control and Dysfunction 8
- PHIL380 Bioethics 8

or other approved subjects

**Bachelor of Nursing**

**Bachelor of Nursing (Honours)**

The Bachelor of Nursing Degree is a first level award. The conversion program for Bachelor of Nursing (Conversion) is an essential complement, as it provides practising nurses who achieved qualifications under the previous hospital system, or diplomats, with the opportunity to upgrade their certificates or diplomas to degree level. The Bachelor of Nursing (Honours) adds a dimension to studies at the graduate level. This award provides exceptional nursing students with the opportunity to extend their knowledge and skills beyond the beginning level.

A new curriculum is proposed to commence in the year 2002. If this is ratified, the revised programme will commence in 2002 for new first year students only. Years 2 and 3 are currently under review for the new program.
Aims & Objectives of the Course

Primary goals:

- To foster respect for diversity.
- To graduate registered nurses who:
  - respect difference
  - respond quickly and appropriately to changing care requirements
  - uphold professional responsibility
  - advance nursing practice through evidence
  - commit to lifelong learning
- To graduate nurses who meet the ANCI competencies for Registered Nurses.
- To graduate students who reflect the attributes of the University of Wollongong Graduate.
- To graduate students who achieve the recommended tertiary literacies of the University of Wollongong.

Year 1* (for students commencing in 2002)

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<td>NURS162</td>
<td>Effective Communication in Health Care Relations*</td>
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<tr>
<td>NURS163</td>
<td>Fundamentals of Nursing*</td>
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<td>NURS164</td>
<td>Patterns of Knowing in Nursing*</td>
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<tr>
<td>NURS165</td>
<td>Primary Health Care Nursing*</td>
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<td>NURS166</td>
<td>Medical/Surgical Nursing 1*</td>
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<td>Human Physiology 1: Principles and Systems</td>
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<tr>
<td>SCIE122</td>
<td>Biology for Nurses</td>
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</tbody>
</table>

* Subject to approval

Students who commenced the Bachelor of Nursing before 2002 who have not completed the required 100-level subjects from their program should consult with the Undergraduate Coordinator in Nursing.

Course requirements for the 3 Year Course leading to award of the Degree of Bachelor of Nursing

(For students who commenced the degree in or before 2001)

The course leading to the award of Bachelor of Nursing is a prescribed course designed for persons seeking registration with the New South Wales Nurses' Registration Board, in which:

Year 1 of the course introduces Fundamentals of Nursing Practice,
Year 2 of the course focuses on developing Collaborative Practice, and
Year 3 of the course is concerned with Autonomous Practice.

Candidates should note that pre- and co-requisites apply to many subjects in the course, and that satisfactory completion of NURS121 or NURS132 in Year 1 is a pre-requisite to enrolment in Year 2 nursing theory and practice subjects. Additionally, satisfactory completion of all Year 2 nursing theory and practice subjects (NURS222 and NURS223) is a pre-requisite to enrolment in Year 3 nursing theory and practice subjects. The reason for these prescriptions is that the Department of Nursing has a legal responsibility to ensure that candidates meet nursing theory and practice requirements at each level of the course.

Due to the necessary inclusion of clinical practicum, the length of each session of the course varies from the normal 13 week session.

Aims & Objectives of the course

Graduates from this course will demonstrate:

1. sound knowledge for safe and competent practice;
2. appropriate affective and psychomotor skills in providing holistic patient care;
3. reflective nursing practice skills in a variety of clinical and community settings;
4. the application of human ecological concepts in planning care, drawing on relevant principles of the biosciences and social and behavioural sciences;
5. effective interpersonal and group communication skills;
6. effective and collaborative functioning as a professional member of the health care team;
7. effective and sensitive practice within a multicultural environment;
8. responsibility for the continuing development of self and profession; and
9. high level skills in organisation and allocation of priorities in clinical and practice activities.

**Year 2** (for students entering 2nd year in 2002)
- NURS221 Advocacy and Ethics in Nursing 6
- NURS222 Acute Care Nursing 8
- NURS223 Acute Care Nursing Practice 8
- NURS225 Health Psychology for Nurses 6
- NURS226 Diagnostics and Therapeutics 6
- NURS227 Human Bioscience 6
- ARTS211 Social Science Perspectives on Health and Illness 6

**Year 3** (for students entering 2nd or 3rd year in 2002)
- NURS321 Mental Health/Psychiatric Nursing: Theory and Practice 6
- NURS322 Developmental Disability: Theory and Practice 6
- NURS324 Preparation for Professional Practice 6
- NURS325 Community Development Nursing: Theory and Practice 6
- NURS326 Community Health Nursing: Theory, Research and Practice 6
- NURS327 Health and Human Ecology 6
- NURS328 Nursing Resources Management 6
- NURS330 Research in Nursing 8

**Course requirements for the course for Certificated Registered Nurses Leading to Award of the Degree of Bachelor of Nursing.**

Candidates must be Registered Nurses to enrol in this course.

The Department of Nursing offers opportunities for registered nurses to convert from certificate to a Bachelor of Nursing. The number of candidates admitted to the course will be limited and applicants must be approved by the Head of the Department of Nursing.

Registered nurses with certificate(s) are required to satisfactorily complete subjects with value of at least 72 credit points, selected from this part of the Nursing Course Structure, and of which:

1. at least 6 credit points will be for 100-level subjects, and must include NURS164;
2. at least 12 credit points will be for 200-level subjects;
3. at least 24 credit points will be for 300-level subjects, and must include NURS330.

Advanced standing of up to 24 credit points may be approved for candidates with post certificate qualifications and experience, but each candidate must satisfy each of the requirements 1, 2 and 3 prescribed above.

**Aims & Objectives of the Course**

Graduates from this course will:

1. demonstrate an increased and sophisticated understanding of the nature of nursing and the role of the nurse as a health care professional;
2. evaluate and apply as appropriate, concepts drawn from nursing theory and research to professional practice;
3. offer leadership to less experienced and/or qualified members of the nursing profession;
4. demonstrate an increased awareness of the effects of cultural, social, economic, legal and ethical influences on the development of the nursing profession and on the health care system;
5. demonstrate increased ability in critical reflection and research;
6. display a readiness and ability to participate in positive changes and technological innovation; and
7. demonstrate competencies that will enable health professionals to accept responsibility for a more complex level of client management.

- NURS123 Introduction to Psychology 6
- NURS162 Effective Communication in Health Care Relationships 6
- NURS164 Patterns of Knowing in Nursing 6
- NURS221 Advocacy and Ethics in Nursing 6
- NURS225 Health Psychology 6
- NURS226 Diagnostics and Therapeutics 6
- NURS255 Pathophysiology for Registered Nurses 6
- NURS325 Community Development Nursing 6
- NURS327 Health and Human Ecology 6
Faculty of Health and Behavioural Sciences

Course requirements for Registered Nurses who hold a Diploma of Nursing, or equivalent, for the course leading to award of the Degree of Bachelor of Nursing.

Candidates must hold a Diploma of Nursing to enrol in this course. The Department of Nursing offers opportunities for registered nurses to convert from a Diploma of Nursing to a Bachelor of Nursing. The number of candidates admitted to the course will be limited and applicants must be approved by the Head of the Department of Nursing. Registered nurses with a Diploma of Nursing, or equivalent, are required to satisfactorily complete subjects with value of at least 24 credit points, selected from this part of the Nursing Course Structure, and of which:

1. at least 12 credit points shall be for 300-level subjects and must include NURS330 (or NURS331 for full-time students).

Aims & Objectives of the Course

Graduates from this course will:

1. demonstrate an increased and sophisticated understanding of the nature of nursing and the role of the nurse as a health care professional;
2. evaluate and apply as appropriate, concepts drawn from nursing theory and research to professional practice;
3. offer leadership to less experienced and/or qualified members of the nursing profession;
4. demonstrate an increased awareness of the effects of cultural, social, economic, legal and ethical influences on the development of the nursing profession and on the health care system;
5. demonstrate increased ability in critical reflection and research;
6. display a readiness and ability to participate in positive changes and technological innovation; and
7. demonstrate competencies that will enable health professionals to accept responsibility for a more complex level of client management.

Course requirements for the course leading to award of the Degree of Bachelor of Nursing (Honours)

There is an increasing need for graduates to develop more advanced and extensive knowledge in the discipline than can be attained in a pass degree. This need can be achieved by qualified candidates, who have attained a level of scholarship at credit level or above in 300-level Nursing subjects, undertaking advanced coursework and research. The Bachelor of Nursing (Honours) adds this dimension to studies at the undergraduate level. This award provides exceptional nursing candidates with the opportunity to extend their knowledge and skills and also provides an alternative academic study pathway to the existing specialist graduate courses in nursing on offer in the University of Wollongong.

Aims & Objectives of the Course

Graduates from this course will:

1. develop and contribute to new forms of nursing practice through the ability to read, summarise, critique and interpret research;
2. apply selected concepts and theories from nursing and related disciplines to support advanced nursing practice;
3. understand and develop research approaches which aim to resolve problems in clinical situations;
4. understand the relationship between theory, practice and research;
5. apply sound research principles to the design, implementation, interpretation and reporting of original research;
6. demonstrate skills in the preparation of research proposals; and
7. acquire a foundation for advanced studies in nursing.

NURS401 Nursing Honours
Course Structures

Bachelor of Nutrition & Dietetics

The Bachelor of Nutrition and Dietetics degree requires 4 years of full-time study and the completion of 192 credit points of approved subjects. The Bachelor of Nutrition and Dietetics course emphasises professional development and provides the student with opportunities to gain clinical and health promotion skills through placements in hospitals, community health centres and the department's Exercise Science and Rehabilitation Centre. Graduates are eligible for membership of the Dietitians Association of Australia (DAA) and practice as professional Dietitians/Nutritionists. Undergraduate students wishing to transfer into the Bachelor of Nutrition and Dietetics degree may make application upon completion of the first two and a half years of the BSc (Nutrition), BSc (Exercise Science and Nutrition) or the Bachelor of Medical Science degrees (or other approved degree programs). Selection is based on a range of criteria including University results over that time.

Students within the Bachelor of Nutrition and Dietetics will need to have achieved a minimum of credit average across the first two years of their program to be permitted to continue into the third and fourth years of this degree. Students failing to achieve this grade will be transferred to the BSc (Nutrition) degree program. In addition, students within the BSc(Nutrition) who have achieved a credit average in the first 2 years of this degree will be permitted to apply to transfer into the Bachelor of Nutrition and Dietetics at this time.

**Year 1**

- BMS101 Systemic Anatomy 6
- BMS103 Human Growth, Nutrition and Exercise 6
- CHEM101 Chemistry 1A: Physical and General Chemistry (or CHEM104) 6
- BMS112 Human Physiology I: Principles and Systems 6
- BIOL103 Molecules, Cells and Organisms 6
- CHEM102 Chemistry 1B: Organic and Physical Chemistry (or CHEM105) 6
- STAT151 Introduction to the Concept and Practice of Statistics 6
- PSYC101 Introduction to Behavioural Science 6
- or
- SOC103* Sociology A: Aspects of Australian Society 6

**Year 2**

- BIOL213 Principles of Biochemistry 6
- BMS202 Human Physiology II: Control Mechanisms 6
- CHEM215 Food Chemistry 6
- PHN203 Current Issues in Food and Nutrition 6
- BIOL214 Biochemistry of Energy and Metabolism 6
- MGMT102 Communications 6
- plus a further two subjects from:
  - BMS204 Introduction to Pathophysiology 6
  - GEOS246* A Hungry World 6
  - PHN103* Introduction to Public Health 6

**Year 3**

- BMS311 Nutrients and Metabolism 8
- BMS310 Community and Public Health Nutrition 8
- BMS312 Research in Human Nutrition 8
- PHIL380 Bioethics 8
- BMS304 Research Topics in Nutrition and Dietetics# 8

**Year 4**

- BND433 Communication in Healthcare Practice 8
- BND434 Dietetics 8
- BND435 Food Services and Dietetics Management 8
- BND437 Practical Studies in Nutrition and Dietetic 24

* suggested elective subjects for a ‘public health’ emphasis to the degree program.

# Students who undertake BMS304 would also be able to undertake population health nutrition projects.
Bachelor of Nutrition & Dietetics/TAFE Certificate IV in Hospitality (Catering Operations)

This 5 year program allows students to graduate with both a Bachelor of Nutrition and Dietetics and the TAFE Certificate IV in Hospitality (Catering Operations). Undertaking the two qualifications separately would normally take 6 years. Graduates would be eligible for membership of the Dietitians Association of Australia (DAA) and practice as professional Dietitians. Graduates would also be eligible to be members of the Institute of Hospitality and Healthcare. This program provides students with the professional degree in Dietetics while enabling career opportunities in food service management, particularly in the public hospital system.

Prospective students should consult the Course Coordinator about their enrolment.

Bachelor of Psychology

100-Level
PSYC121 Foundations of Psychology A 6
PSYC122 Foundations of Psychology B 6
PSYC123 Theory, Design and Statistics in Psychology 6
plus at least 30 credit points from either the Health Science Schedule or the General Schedule.

200-Level
PSYC231 Personality 6
PSYC232 Research Methods and Statistics 6
PSYC234 Biological Psychology and Learning 6
PSYC235 Introduction to Psychological Assessment 6
PSYC236 Cognition and Perception 6
PSYC241 Developmental and Social Psychology 6
plus at least 12 credit points from either the Health Science Schedule or the General Schedule.

300-Level
General pre-requisite (300-level): 24 credit points of Psychology at 200-level, (excluding PSYC216). (Further specific pre-requisites are indicated in brackets).
PSYC347 Assessment and Intervention 8
PSYC348 History and Metatheory of Psychology 8
PSYC354 Design and Analysis (PSYC232) 8
together with 3 electives including at least one of:
PSYC317 Advanced Learning (PSYC234) 8
PSYC345 Advanced Cognition (PSYC236) 8
PSYC349 Visual Perception (PSYC236) 8
PSYC352 Psychophysiology (PSYC234) 8
and at least one of:
PSYC315 Psychology of Abnormality (PSYC231) 8
PSYC318 Change Throughout the Lifespan (PSYC231) 8
PSYC350 Social Behaviour and Individual Differences (PSYC241) 8

400-Level
Students performing at the level for entry to Honours will enrol in PSYC499. Otherwise, students will enrol in PSYC498.
PSYC498 Psychology IV 48
PSYC499 Psychology IV Honours 48
Students in the Bachelor of Psychology cannot enrol in PSYC498 or PSYC499 until they have completed 144 credit points of the first three years of the BPsyc degree.

Bachelor of Science (Exercise Science)

The Bachelor of Science degree, with a major study in Exercise Science, involves 3 years of full time study and the completion of 144 credit points including at least 24 credit points at 300-level. This degree represents the first 3 years of the 4-year professional Bachelor of Exercise Science and Rehabilitation degree program. Graduates are trained to utilise exercise as an intervention to maintain health and fitness in healthy individuals. Graduates may become full members of the Australian Association for Exercise and Sports Science (AAESS) although further study maybe required to achieve professional accreditation.
Course Structures

Students wishing to transfer into the professional 4-year Bachelor of Exercise Science and Rehabilitation degree program may apply for transfer upon completion of the second year of the program.

The BSc (Exercise Science) is designed to meet the pre-requisite subject requirements for entry into the Graduate Diploma in Science (Exercise Rehabilitation) or the Master of Science (Exercise Rehabilitation) postgraduate degree programs which lead to professional accreditation, as an Exercise Physiologist or a Sports Scientist, by AAESS.

For the Bachelor of Science (Exercise Science) degree the following subjects must be undertaken:

### Year 1
- **BMS101** Systemic Anatomy 6
- **BMS103** Human Growth, Nutrition and Exercise 6
- **CHEM101** Chemistry 1A: Physical and General Chemistry (or CHEM104) 6
- **PSYC101** Introduction to Behavioural Science 6
- **BMS112** Human Physiology I: Principles and Systems 6
- **BIOL103** Molecules, Cells and Organisms 6
- **CHEM102** Chemistry 1B: Organic and Physical Chemistry (or CHEM105) 6
- **STAT151** Introduction to the Concept and Practice of Statistics 6

### Year 2
- **BMS202** Human Physiology II: Control Mechanisms 6
- **BMS211** Foundations of Biomechanics 6
- **BIOL213** Principles of Biochemistry 6
- **PSYC216** Psychology of Physical Activity 6
- **BMS203** Musculoskeletal Functional Anatomy 6
- **BMS204** Introduction to Pathophysiology 6
- **BMS242** Exercise Physiology 6

plus a further subject from:
- **BIOL214** Biochemistry of Energy and Metabolism 6
- **MGMT102** Communications 6
- **PHN103** Introduction to Public Health 6

### Year 3
- **BEXS351** Exercise Prescription 1: Strength and Conditioning 8
- **BMS342** Advanced Exercise Physiology 8
- **BEXS352** Exercise Prescription 2: Aerobic Fitness 8

plus a further three subjects from:
- **BMS354#** Practicum in Exercise Science 8
- **BMS302** Research Topics 8
- **BMS344** Cardiorespiratory Physiology 8
- **BMS352** Fundamentals of Neuroscience 8
- **BEXS401** Ergonomics 8
- **BMS300** Regional Anatomy 8
- **BMS303** Research Topics in Exercise Science 8
- **BMS341** Clinical Biomechanics 8
- **BMS345** Advanced Topics in Pathophysiology 8
- **BMS346** Motor Control and Dysfunction 8

or other approved subjects.

# Pre-requisite: BMS203, BMS242. This subject is for BSc (Exercise Science) and BSc (Exercise Science and Nutrition) students only.

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**Bachelor of Science (Health Science)**

(Not available to students commencing in 2002)

The 'health industry' is one of Australia's largest. Until recent years health policy has been very much the province of professional groups, and the public at large through its elected representatives or governmental bureaucracies has played a relatively minor part. All this is now changing with the realisation that health is largely a function of personal choice and social organisation, that we must decide health policies, and that, as with any commodities, we must choose what kind of resources and how much we allocate to achieve health goals. The major in health science may be taken by students who expect to be employed in the health system, but it should be considered by students who wish to be informed about a subject of interest to
all Australians. A number of postgraduate options are available to allow graduates to proceed into masters degrees (e.g. in public health, health policy and management) or into research programs.

For the Bachelor of Science (Health Science) degree the following subjects must be undertaken:

### 100-Level

- SOC103 Sociology 1A: Aspects of Australian Society 6
- PSYC101 Introduction to Behavioural Science 6
- GEOS142 The Human Environment: Problems and Change 6
- PHN103 Introduction to Public Health 6
- BIOL103 Molecules, Cells and Organisms 6

and

- CCS101 Communication, Media and Society 6

or

- SOC104 Sociological Theory in Context 6

### 200-Level

- GEOS242 Living in Cities 6
- PHN203 Current Issues in Food and Nutrition 6
- SOC203 Emerging Issues in Sociological Theory 8
- GEOS246 A Hungry World: Food, Resources and the World Economy 6
- PHN205 Public Health - Issues and Concepts 6
- STAT252 Statistics for the Natural Sciences 6

### 300-Level

- ECON317 Economics of Health Care 8
- PHN330 Public Health Research Methods 8
- GEOS349 Population, Health and Environment 8
- PHIL380 Bioethics 8

For a Double Major: A maximum of 72 credit points from the above list of subjects can be counted towards a double major with Health Science including PHN330 and a choice of two out of three subjects, i.e. GEOS349, PHIL380, ECON317, except that double majors with Psychology do not require STAT151.

Additional subjects may be selected from the Health and Behavioural Sciences, Science or General Schedules to make up the required 144 credit points.

Note: Subjects to the value of at least 90 credit points must be selected from the Science or Health and Behavioural Sciences Schedules.

### Honours Program

The degree of Bachelor of Science (Honours) in the Graduate School of Public Health is designed to provide supervised training in independent research. Candidates can be admitted with a Bachelor degree in a relevant discipline with research skill subjects and a credit average depending on the availability of supervision. The program will consist of 48 credit points of research leading to the submission of a thesis.

Research should be in an area of research expertise of a member of the Graduate School of Public Health. Potential candidates should discuss their research interest with the coordinator of the program and present a research project title and general outline. Once the supervisor has been approved the candidate will undertake an approved course program recommended by the School Head. The student is also required to pass an examination of the detailed research proposal before about one third of the research time has passed. Requirements are specified in the Honours Bachelor Degree Rules.

The total duration of the honours year is no less than one year full-time and no more than 1.5 years full-time.

### Bachelor of Science (Nutrition)

The Bachelor of Science (Nutrition) is a 3 year full time degree program requiring 144 credit points of approved subjects.

The degree provides a general education in the study of human nutrition with core areas of study including biochemistry, physiology, nutritional metabolism and community and public health nutrition. The program may be seen as the first 2 years of the professional 4-year Bachelor of Nutrition and Dietetics degree. The BSc (Nutrition) degree is designed to meet the prerequisite requirements for admission to the MSc (Nutrition and Dietetics) and recognition by the DAA as a professional Dietitian/Nutritionist.

Students within the BSc(Nutrition) who have achieved a credit average in the first two and a half years of this degree will be permitted to apply to transfer into the Bachelor of Nutrition and Dietetics at this time.
For the Bachelor of Science (Nutrition) degree the following subjects must be undertaken:

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<td>BMS112</td>
<td>Human Physiology 1: Principles and Systems</td>
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<td>Molecules, Cells and Organisms</td>
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<td>CHEM215</td>
<td>Food Chemistry</td>
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<td>Current Issues in Food and Nutrition</td>
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<td>BIOL214</td>
<td>Biochemistry of Energy and Metabolism</td>
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<tr>
<td>BMS204</td>
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<tr>
<td>GEOS246*</td>
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<td>BMS312</td>
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<tr>
<td>BMS346</td>
<td>Motor Control and Dysfunction</td>
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*Suggested elective subjects for a 'public health' emphasis to the degree*

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**Bachelor of Science (Nutrition)/ TAFE Certificate IV in Hospitality (Catering Operations)**

This 4 year program allows students to graduate with both a BSc (Nutrition) and the TAFE Certificate IV in Hospitality (Catering Operations). Undertaking the two qualifications separately would normally take 5 years. This combined program provides a sound training in nutritional science and its applications to human nutrition, as well as practical food service management skills. Topics covered in the TAFE component include staff supervision, menu planning, food safety systems, customer service and marketing, quality management, as well as organising, preparing and serving food. Graduates would be eligible to be members of the Institute of Hospitality and Healthcare.

**NOTE:** BOLD type indicates TAFE component.

### Year 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<td>PSYC101</td>
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</table>
### Bachelor of Health Science (Food Service Systems)

**Year 2**
- **BIOL213** Principles of Biochemistry 6
- **BMS202** Human Physiology II: Control Mechanisms 6
- **CHEM215** Food Chemistry 6
- **MGMT102** Communication 6
- **BIO214** Biochemistry of Energy and Metabolism 6
- **PHN203** Current Issues in Food and Nutrition 6
- **STAT252** Statistics for the Natural Sciences 6
- **4500B** Food Preparation and Service 36 hrs
- **4565A** Practical Catering I 36 hrs

**Year 3**
- **BMS310** Community and Public Health Nutrition 6
- **BMS311** Nutrients and Metabolism 6
- **4565G** Food Service in Practice 90 hrs
- **PHIL380** Bioethics 8
- **2642B** Supervision 36 hrs
- **4567A** Catering Supervision in Practice 90 hrs
- **2643D** Staffing Hospitality 27 hrs
- **4571A** Hospitality Colleagues and Customers 24 hrs
- **4571B** Hospitality Industry 18 hrs

**Year 4**
- **BMS312** Research in Human Nutrition 8
- **4566A** Practical Catering 2A – Community 36 hrs
- **4565D** Cook-Chill Catering 27 hrs
- **4501D** Food Service Settings – Aged Care 18 hrs
- **4564A** Catering Commodities 18 hrs
- **6639C** Quality Management in Nutrition Services 18 hrs
- **6639A** Administration-Health Care Facilities 18 hrs
- **BMS304** Research Topics in Nutrition and Dietetics 8
- **5779F** Food Presentation 10 hrs
- **6634B** Food Service Planning 36 hrs
- **6635A** Australian Cuisine 54 hrs
- **4501K** Work Experience 34 hrs

**TOTAL University** 124

**TAFE** 764 hrs

---

### Bachelor of Science (Psychology)

For the Bachelor of Science (Psychology) degree candidates must undertake the following subjects. Additional subjects may be selected from the Health & Behavioural Sciences schedule or the Science schedule or the General Schedule to make up the required 144 credit points.

**100-Level**
- **PSYC121** Foundations of Psychology A 6
- **PSYC122** Foundations of Psychology B 6
- **PSYC123** Theory, Design and Statistics in Psychology 6

**200-Level**
(Options are available. See following notes.)
- **PSYC216** Psychology of Physical Activity 6
- **PSYC231** Personality 6
- **PSYC232#** Research Methods and Statistics 6
- **PSYC234** Biological Psychology and Learning 6
- **PSYC235** Introduction to Psychological Assessment 6
- **PSYC236** Cognition and Perception 6
- **PSYC241** Developmental and Social Psychology 6

# Completion of PSYC232 prior to enrolment in PSYC235 is strongly recommended.
Course Structures

1. Students intending to complete three years of Psychology only, must complete PSYC232, plus three Psychology elective subjects. An elective must be a 200 level subject, excluding PSYC216, and must include at least one from each of the following groups:

   Group A - PSYC231, PSYC241
   Group B - PSYC234, PSYC236

2. Students intending to proceed to an honours year in Psychology must complete PSYC232 and PSYC235, together with three electives from the following subjects: PSYC231, PSYC241, PSYC234, PSYC236.

300-Level

24 credit points of Psychology at 200-level (excluding PSYC216) should be completed as a general pre-requisite to 300 level subjects.

Further specific pre-requisites are indicated in brackets

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Pre-requisite</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC315</td>
<td>Psychology of Abnormality (PSYC231)</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC317</td>
<td>Advanced Learning (PSYC234)</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC318</td>
<td>Change Throughout the Life Span (PSYC231)</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC345</td>
<td>Advanced Cognition (PSYC236)</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC347</td>
<td>Assessment and Intervention</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC348</td>
<td>History and Metatheory of Psychology</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC349</td>
<td>Visual Perception</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC350</td>
<td>Social Behaviour and Individual Differences (PSYC241)</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC352</td>
<td>Psychophysiology (PSYC234)</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>PSYC354</td>
<td>Design and Analysis (PSYC232)</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Note: Subjects to the value of at least 90 credit points must be selected from the Science or Health and Behavioural Sciences Schedules.

1. Students intending to complete three years of Psychology only, must complete three Psychology electives, including at least one from each of the following groups:

   Group A - PSYC317, PSYC345, PSYC349, PSYC352
   Group B - PSYC315, PSYC318, PSYC347, PSYC348, PSYC350

2. Students intending to proceed to Honours in Psychology must complete PSYC348 and PSYC354 together with three electives which must include at least one from PSYC317, PSYC345, PSYC349, PSYC352

Additional subjects may be selected from the Health and Behavioural Sciences or Science Schedules or the General Schedule to make up the required 144 credit points.

Bachelor of Science (Exercise Science & Nutrition)

The Bachelor of Science (Exercise Science and Nutrition) combines studies in the areas of Nutrition and Exercise Science. The double major requires the completion of 150 credit points of core subjects and 3 years of full time study. This degree represents the first 3 years of a 5 year integrated undergraduate and postgraduate program of study (with the Master of Science (Nutrition/Dietetics and Exercise Science) designed to produce a combined Dietitian and Exercise Science practitioner who has professional accreditation from both the Dietitians Association of Australia (DAA) and the Australian Association for Exercise and Sports Science (AAESS).

Students wishing to transfer into the Bachelor of Science (Exercise Science and Nutrition) will normally apply at the beginning of each academic year. Selection is based on criteria which include University results and UAI scores.

For the Bachelor of Science (Exercise Science and Nutrition) the following subjects must be undertaken:

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS101</td>
</tr>
<tr>
<td>BMS103</td>
</tr>
<tr>
<td>CHEM101</td>
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<tr>
<td>PSYC101</td>
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<tr>
<td>BMS112</td>
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<tr>
<td>BIOL103</td>
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<tr>
<td>CHEM102</td>
</tr>
<tr>
<td>STAT151</td>
</tr>
<tr>
<td>Year 2</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>BMS211</td>
</tr>
<tr>
<td>BIOL213</td>
</tr>
<tr>
<td>CHEM215</td>
</tr>
<tr>
<td>BMS202</td>
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<td>BMS242</td>
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<td>BIOL214</td>
</tr>
<tr>
<td>BMS203</td>
</tr>
<tr>
<td>PHN203</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS204</td>
</tr>
<tr>
<td>BMS310</td>
</tr>
<tr>
<td>BMS312</td>
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<tr>
<td>BEXS351</td>
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<tr>
<td>BMS311</td>
</tr>
<tr>
<td>BEXS352</td>
</tr>
<tr>
<td>BMS346</td>
</tr>
</tbody>
</table>

If students do not intend to enrol in the MSc (Nutrition and Dietetics and Exercise Rehabilitation) on graduation and wish to qualify for full membership of the professional exercise science association (AAESS) they should complete BMS354 Practicum in Exercise Science instead of BMS204.

**Bachelor of Science (Nutrition & Chemistry)**

The Bachelor of Science (Nutrition and Chemistry) combines studies in the areas of Nutrition and Chemistry over 144 credit points of core subjects and 3 years of full-time study.

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS101</td>
</tr>
<tr>
<td>BMS103</td>
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<tr>
<td>BMS112</td>
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<tr>
<td>STAT151</td>
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<tr>
<td>BIOL103</td>
</tr>
<tr>
<td>CHEM101*</td>
</tr>
<tr>
<td>CHEM102*</td>
</tr>
<tr>
<td>PSYC101</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>SOC103</td>
</tr>
</tbody>
</table>

* Note: Students who have not achieved a 50% pass or higher in HSC Chemistry, must enrol in CHEM104 and CHEM105 rather than CHEM101 and CHEM102.

<table>
<thead>
<tr>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS202</td>
</tr>
<tr>
<td>BIOL213</td>
</tr>
<tr>
<td>BIOL214</td>
</tr>
<tr>
<td>PHN203</td>
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<tr>
<td>CHEM211</td>
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<tr>
<td>CHEM212</td>
</tr>
<tr>
<td>CHEM213</td>
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<tr>
<td>CHEM215</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS311</td>
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<tr>
<td>BMS310</td>
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</tbody>
</table>

plus one subject from the following:

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<table>
<thead>
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</thead>
<tbody>
<tr>
<td>BMS312</td>
</tr>
<tr>
<td>PHIL380</td>
</tr>
<tr>
<td>BMS301</td>
</tr>
<tr>
<td>BMS302</td>
</tr>
<tr>
<td>BMS345</td>
</tr>
<tr>
<td>BMS346</td>
</tr>
</tbody>
</table>
Course Structures

plus three subjects from the following:

- CHEM311 Inorganic Chemistry III 8
- CHEM314 Instrumental Analysis 8
- CHEM320 Biological Chemistry 8
- CHEM321 Organic Synthesis and Reactivity 8
- CHEM327 Environmental Chemistry 8
- CHEM340 Chemistry Laboratory Project 8
- CHEM364 Molecular Structure and Spectroscopy 8

Bachelor of Science (Psychology & Biology)

For the Bachelor of Science Double Major in Psychology & Biology the following subjects must be undertaken.

Note: Students intending to complete an honours year in Psychology must complete more than 24 credit points of Psychology subjects at 300 Level.

100-Level

- PSYC121 Foundations of Psychology A 6
- PSYC122 Foundations of Psychology B 6
- PSYC123 Theory, Design and Statistics in Psychology 6
- BIOL103 Molecules, Cells and Organisms 6
- BIOL104 Evolution, Biodiversity and Environment 6
- CHEM101* Chemistry 1A (or CHEM104) 6
- CHEM102* Chemistry 1B (or CHEM105) 6

* Note: Students who have not achieved 50% or more in HSC Chemistry must enrol in CHEM104 and CHEM105 instead of CHEM101 and CHEM102.

200-Level

(Options are available. See following notes)

- PSYC216 Psychology of Physical Activity 6
- PSYC231 Personality 6
- PSYC232# Research Methods and Statistics 6
- PSYC234 Biological Psychology & Learning 6
- PSYC235 Introduction to Psychological Assessment 6
- PSYC236 Cognition and Perception 6
- PSYC241 Developmental and Social Psychology 6

plus, students must enrol in four biology subjects selected from the following:

- BIOL213 Principles of Biochemistry 6
- BIOL214 The Biochemistry of Energy and Metabolism 6
- BIOL215 Introductory Genetics 6
- BIOL240 Functional Biology of Plants and Animals 6
- BIOL241 Biodiversity: Classification and Sampling 6
- BIOL251 Principles of Ecology and Evolution 6
- MARE200 Introduction to Oceanography 6

# Completion of PSYC232 prior to enrolment in PSYC235 is strongly recommended.

1. Students intending to complete three years of Psychology only, must complete PSYC232, plus three Psychology elective subjects. An elective must be a 200 level subject, excluding PSYC216, and must include at least one from each of the following groups:

   - Group A - PSYC231, PSYC241
   - Group B - PSYC234, PSYC236

2. Students intending to proceed to an Honours year in Psychology must complete PSYC232 and PSYC235, together with three electives from the following subjects: PSYC231, PSYC241, PSYC234, PSYC236.

300-Level

24 credit points of Psychology at 200-level (excluding PSYC216) should be completed as a general pre-requisite to 300 level subjects. (Further specific pre-requisites are indicated in brackets).

- PSYC315 Psychology of Abnormality (PSYC231) 8
- PSYC317 Advanced Learning (PSYC234) 8
- PSYC318 Change Throughout the Life Span (PSYC231) 8
PSYC345  Advanced Cognition (PSYC236)  8
PSYC347  Assessment and Intervention  8
PSYC348  History and Metatheory of Psychology  8
PSYC349  Visual Perception (PSYC236)  8
PSYC350  Social Behaviour and Individual Differences (PSYC241)  8
PSYC352  Psychophysiology (PSYC234)  8
PSYC354  Design and Analysis (PSYC232)  8

1. Students intending to complete three years of Psychology only, must complete three Psychology electives, including at least one from each of the following groups:
   Group A - PSYC317, PSYC345, PSYC349, PSYC352
   Group B  - PSYC315, PSYC318, PSYC347, PSYC348, PSYC350

2. Students intending to proceed to Honours in Psychology must complete PSYC348 and PSYC354 together with three electives which must include at least one from: PSYC317, PSYC345, PSYC349, PSYC352

plus, students must enrol in three Biology subjects selected from the following: (total of 24 credit points)

BIOL303  Biotechnology: Applied Cell & Molecular Biology  8
BIOL318  Bioinformatics  8
BIOL320  Molecular Cell Biology  8
BIOL321  Cellular and Molecular Immunology  8
BIOL351  Conservation Biology: Marine and Terrestrial Populations  8
BIOL355  Marine and Terrestrial Ecology  8
BIOL391  Advanced Biology  8
BIOL392  Advanced Biology Project  8

Bachelor of Science (Psychology & Exercise Science)

The BSc (Psychology and Exercise Science) degree requires a minimum of 3 years of full time study and the completion of at least 158 credit points. The degree is designed to meet the requirements for entry into the Honours program within both the Departments of Psychology and Biomedical Science. Students wishing to transfer into the Bachelor of Science (Psychology and Exercise Science) will be judged on criteria including University results and UAI scores.

For the Bachelor of Science (Psychology & Exercise Science) the following subjects must be undertaken:

**Year 1**

BMS101  Systemic Anatomy  6
BMS103  Human Growth, Nutrition and Exercise  6
PSYC121  Foundations of Psychology A  6
CHEM101  Chemistry 1A: Physical and General Chemistry (or CHEM104)  6
BMS112  Human Physiology I: Principles and Systems  6
BIOL103  Molecules, Cells and Organisms  6
PSYC122  Foundations of Psychology B  6
PSYC123  Theory, Design and Statistics in Psychology  6

**Year 2**

BMS202  Human Physiology II: Control Mechanisms  6
BMS211  Foundations of Biomechanics  6
PSYC232  Research Methods and Statistics  6
BMS203  Musculoskeletal Functional Anatomy  6
BMS242  Exercise Physiology  6
and
PSYC235  Introduction to Psychological Assessment  6

(PSYC235 only for students intending to complete a 4th year program in Psychology)

plus three electives with at least one subject from each of the following groups:

Group A:

PSYC231  Personality  6
PSYC241  Developmental and Social Psychology  6

Group B:

PSYC234  Biological Psychology and Learning  6
PSYC236  Cognition and Perception  6
Course Structures

Note: Students intending to proceed to an Honours year in Psychology must complete PSYC232 and PSYC235, together with three electives from PSYC231, PSYC241, PSYC234, PSYC236.

Year 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS342</td>
<td>Advanced Exercise Physiology</td>
<td>8</td>
</tr>
<tr>
<td>BEXS351</td>
<td>Exercise Prescription 1: Strength and Conditioning</td>
<td>8</td>
</tr>
<tr>
<td>BEXS352</td>
<td>Exercise Prescription 2: Aerobic Fitness</td>
<td>8</td>
</tr>
<tr>
<td>PSYC354</td>
<td>Design and Analysis (PSYC232)</td>
<td>8</td>
</tr>
</tbody>
</table>

Plus two electives which must include at least one subject from each of the following groups:

Group A:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC315</td>
<td>Psychology of Abnormality (PSYC231)</td>
<td>8</td>
</tr>
<tr>
<td>PSYC318</td>
<td>Change Throughout the Lifespan (PSYC231)</td>
<td>8</td>
</tr>
<tr>
<td>PSYC347</td>
<td>Assessment and Intervention</td>
<td>8</td>
</tr>
<tr>
<td>PSYC348</td>
<td>History and Metatheory of Psychology</td>
<td>8</td>
</tr>
<tr>
<td>PSYC350</td>
<td>Social Behaviour and Individual Differences (PSYC241)</td>
<td>8</td>
</tr>
</tbody>
</table>

Group B:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC317</td>
<td>Advanced Learning (PSYC234)</td>
<td>8</td>
</tr>
<tr>
<td>PSYC345</td>
<td>Advanced Cognition (PSYC236)</td>
<td>8</td>
</tr>
<tr>
<td>PSYC349</td>
<td>Visual Perception</td>
<td>8</td>
</tr>
<tr>
<td>PSYC352</td>
<td>Psychophysiology (PSYC234)</td>
<td>8</td>
</tr>
</tbody>
</table>

Students intending to complete Psychology Honours must select PSYC348 from group A above.

Bachelor of Science (Psychology & Management)

For details of the major studies in the above degree please refer to the Psychology Department and the Management Department.

Bachelor of Science (Psychology & Nutrition)

The BSc (Psychology and Nutrition) degree requires a minimum of 3 years of full time study and the completion of at least 144 credit points. The degree is designed to meet the requirements for entry into the Honours program within the Departments of Psychology and Biomedical Science. The program also meets entry requirements for the Masters Program in Nutrition and Dietetics.

Students wishing to transfer into the Bachelor of Science (Psychology and Nutrition / Exercise Science) will be judged on criteria including University results and UAI scores.

For the Bachelor of Science (Psychology & Nutrition) the following subjects must be undertaken:

Year 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS101</td>
<td>Systemic Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>BMS103</td>
<td>Human Growth, Nutrition and Exercise</td>
<td>6</td>
</tr>
<tr>
<td>PSYC121</td>
<td>Foundations of Psychology A</td>
<td>6</td>
</tr>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A: Physical and General Chemistry (or CHEM104)</td>
<td>6</td>
</tr>
<tr>
<td>BMS112</td>
<td>Human Physiology I: Principles and Systems</td>
<td>6</td>
</tr>
<tr>
<td>BIOL103</td>
<td>Molecules, Cells and Organisms</td>
<td>6</td>
</tr>
<tr>
<td>PSYC122</td>
<td>Foundations of Psychology B</td>
<td>6</td>
</tr>
<tr>
<td>PSYC123</td>
<td>Theory, Design and Statistics in Psychology</td>
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</table>

Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS202</td>
<td>Human Physiology II: Control Mechanism</td>
<td>6</td>
</tr>
<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM215</td>
<td>Food Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>PSYC232</td>
<td>Research Methods and Statistics</td>
<td>6</td>
</tr>
<tr>
<td>BIOL214</td>
<td>Metabolic Biochemistry</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus three 6 credit point electives which must include at least one subject from each of the following groups:

Group A:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC231</td>
<td>Personality</td>
<td>6</td>
</tr>
<tr>
<td>PSYC241</td>
<td>Development and Social Psychology</td>
<td>6</td>
</tr>
</tbody>
</table>
Group B:
PSYC234 Biological Psychology and Learning 6
PSYC236 Cognition and Perception 6
Further elective:
PSYC235 Introduction to Psychological Assessment 6

Year 3
BMS311 Nutrients and Metabolism 8
BMS310 Community and Public Health Nutrition 8
BMS312 Research in Human Nutrition 8

Plus three 8 credit point electives which must include at least one subject from each of the following groups:

Group A:
PSYC315 Psychology of Abnormality (PSYC231) 8
PSYC318 Change Throughout the Lifespan (PSYC231) 8
PSYC347 Assessment and Intervention 8
PSYC348 History and Metatheory of Psychology 8
PSYC350 Social Behaviour and Individual Differences (PSYC241) 8

Group B:
PSYC317 Advanced Learning (PSYC234) 8
PSYC345 Advanced Cognition (PSYC236) 8
PSYC349 Visual Perception 8
PSYC352 Advance Psychophysiology (PSYC234) 8

Further elective:
PSYC354 Design and Analysis (PSYC232) 8

TOTAL 144

NB: Students intending to qualify for an honours year in Psychology should complete the extra subjects required.

Double Degrees with Bachelor of Medical Science, Bachelor of Psychology or Bachelor of Science (Health and Behavioural Sciences majors).

Students may combine their Health and Behavioural Sciences studies with studies in a number of other faculties and qualify for the award of two degrees. Double degrees are designed for students to complete two degrees in less time that it would normally take. Double degrees are offered with Commerce and Law, and may be available with other Faculties after consultation with the Sub-Deans.

- Students must seek advice and approval from both Faculties.
- Candidates must satisfy the entry requirements of both degree programs.
- Double degrees, where both degrees are normally of three years duration will be a minimum of 216 credit points and take a minimum of four years to complete.
- Double degrees, where one of the degrees is normally of four years duration will be a minimum of 264 credit points and take a minimum of five years to complete.
- Students may be given exemptions where equivalences exist between subjects.

For all double degrees, candidates are required to complete subjects from the Health and Behavioural Sciences schedule, including core subjects and subjects to satisfy the requirements of one of the Health and Behavioural Sciences majors or degrees. Candidates should be aware that the number of credit points required by each major varies. Candidates must also satisfy the requirements for the second degree, which would usually include a major study.
Subject Descriptions

BIOMEDICAL SCIENCE

BMS101  Systemic Anatomy  6cp
Autumn  Wollongong  On Campus
Contact Hours: 2L, 3P p/w.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: EDUP131
Assessment: Practical Exam 60%; Theory Exam 40%
Subject Description: This subject provides an introduction to the area of human gross anatomy through the study of each of the major systems of the body. In weekly practical sessions, students are exposed to anatomical structure through examination of both cadaveric specimens, radiographic images, histological slides, audiovisual materials and anatomical models. Major topics include the skeletal, muscular, nervous, cardiovascular, respiratory, digestive and urogenital systems.
Subject Objectives: Students will be able to: Identify gross anatomical structures on both models and human cadaveric material; Understand the anatomical relationship between the systems of the body; Understand the link between structure and function of anatomical structures.

BMS103  Human Growth Nutrition and Exercise  6cp
Autumn  Wollongong  On Campus
Contact Hours: 2L, 1T p/w.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination 60%; Practical/Tutorial Assignment and Presentation 40%
Subject Description: This subject will consider the relationship between growth (physical and maturational), nutritional health and exercise on various lifestyle performance indicators, such as motor skills and disease. The characteristics and determinants of growth, nutrition, health and exercise throughout the lifespan will be reviewed and will be examined from morphological, physiological and neural perspectives.
Subject Objectives: To develop a comprehensive and critical understanding of: The biological processes that characterise human growth and development, nutrition and exercise; The normal patterns of growth from conception to birth and birth to maturity and their relationship to motor performance in postnatal life; The relationship between physical activity, health, nutrition and growth at different ages through the human lifespan; The influence of specific pathologies on growth and movement function.

BMS112  Human Physiology I: Principles and Systems  6cp
Spring  Wollongong  On Campus
Contact Hours: 3L, 3P/T/Comp.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: EDUP132
Assessment: Theory Exam 65%; Practical Exam 35%
Subject Description: Following an introduction to the cellular, physiochemical and homeostatic principles essential to an understanding of physiology, specific systems will be investigated in detail. Specific topics will include: nervous, muscular, cardiovascular, and respiratory systems, acid-base balance, renal function, digestive processes and energy balance. Four wet practicals and computer simulations will exemplify lecture material; tutorials will concentrate on graphic analysis, data handling and simple analyses.
Subject Objectives: information unavailable

BMS200  Histology  6cp
Autumn  Wollongong  On Campus
Contact Hours: 5/wk (or equivalent).
Pre-requisites: BMS101 or BMS112
Co-requisites: None
Restrictions: A quota may apply in any one year
Exclusions: BMS102
Assessment: Theory (Final Exam) 50%; Practical (Tests, Exam, Prac. mark, Assignments) 50%
Subject Description: This subject provides an introduction to the structure and function of mammalian cells, tissues and organs. The practicals and lectures will emphasise functional histology. Students will examine cell ultrastructure, gain an appreciation of histological methods and acquire a detailed understanding of the major tissue types and how these tissues are integrated to produce the functional characteristics of all the major organs/systems of the body. These include the cardiovascular, lymphatic, immune, integumentary, respiratory, digestive, urinary, endocrine and reproductive systems.
Subject Objectives: To recall, define, identify, explain and interpret microscopic structures and related functions within cells, tissues and organs of the body.

BMS202  Human Physiology II: Control Mechanisms  6cp
Autumn  Wollongong  On Campus
Contact Hours: 3L, 3P/T p/w.
Pre-requisites: BMS112 OR EDUP132
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Laboratory reports; Mid-semester examination (Multiple choice); Laboratory attendance; Final Examination (multiple choice and short answer)
Subject Description: This subject is an extension of Human Physiology I (BMS112 or EDUP132) and covers material essential to the understanding of physiological control. While topics may vary from year to year, these will typically include the fundamentals of neurophysiological and endocrine control, with detailed treatment of cardiovascular, respiratory, metabolic and digestive system control. Control abnormalities accompanying certain pathological states are also emphasised.
Subject Objectives: The aim of this subject is to extend an understanding of human physiology to an appreciation and comprehension of how physiological systems are controlled during normal, abnormal and pathological states. While systems are frequently covered in isolation, some sections of this subject deal with system interactions during the maintenance of homeostasis.
BMS203 Musculoskeletal Functional Anatomy  6cp
Spring Wollongong On Campus
Contact Hours: 3L, 3P, 1T (fortnightly).
Pre-requisites: BMS101 and BMS211
Co-requisites: none
Restrictions: none
Exclusions: EDUP233
Assessment: Spot Tests 10%; Practical Exam 1 12%; Practical Exam 2 18%; Theory Exam 60%
Subject Description: This subject investigates the musculoskeletal system from a functional anatomical viewpoint. Topics include the anatomy and function of synovial joints and the role of skeletal muscle in the performance of movements such as walking, running and prehension. Emphasis will be placed upon integrating together the anatomical structures of the musculoskeletal system to better understand the principles of human motion. Students will be introduced to basic recording techniques for the assessment of musculoskeletal function including flexibility, strength and postural tests, movement analysis, anthropometry, gait analysis and electromyography.
Subject Objectives: The general objectives are: To develop an understanding of the structure and function of the musculoskeletal system in relation to both movement and posture, and to provide the student with techniques useful in the kinesiological analysis of human movement.

BMS204 Introduction to Pathophysiology  6cp
Spring Wollongong On Campus
Contact Hours: 2L, 2P.
Pre-requisites: BMS202
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Practical Assessment 30%, Seminar 10%, Final Exam 60%
Subject Description: This subject introduces the student to the study of the physiological basis of human disease states. There are four parts to this course including: pathophysiology at the cellular level; nutrition anaemias and lower digestive system; musculoskeletal system and cardiovascular system. Topics include fluid and electrolyte imbalance acid/base imbalance and coeliac disease, ulcerative colitis, Crohn's disease, musculoskeletal system and hypertension, dyslipidaemia and atherosclerosis.
Subject Objectives: Overall aim: To develop an understanding of the basic concepts relating to pathophysiology, and be able to relate these to the three main body systems covered, i.e. digestive, musculoskeletal and cardiovascular systems.

BMS211 Foundations of Biomechanics  6cp
Autumn Wollongong On Campus
Contact Hours: 5 p/w.
Pre-requisites: BMS101 or EDUP131
Co-requisites: none
Restrictions: none
Exclusions: EDUP235
Assessment: Quizzes 50%; Final Examination 50%
Subject Description: This subject introduces fundamental biomechanical principles to provide a basis for understanding the causes and effects of human motion. The subject is an extension of the basic principles of human structure and function studied in Systemic Anatomy and will include: (i) introduction to analysis of movement; (ii) basic biomechanical principles of motion; and (iii) subjective analysis of movement.

Subject Objectives: By the end of this subject the students will be able to: (i) describe and explain basic biomechanical principles of motion and (ii) demonstrate an understanding of subjective methods for analysing human motion.

BMS242 Exercise Physiology  6cp
Spring Wollongong On Campus
Contact Hours: 2L, 3P.
Pre-requisites: BMS202
Co-requisites: none
Restrictions: none
Exclusions: EDUP234
Assessment: Mid Semester Exam 25%; Group Assignment 25%; Final Exam 50%
Subject Description: This subject extends the study of human structure and function into the work and exercise domains. Areas to be studied include energy liberation and metabolism, applied muscle physiology and applied cardiorespiratory physiology.
Subject Objectives: information unavailable

BMS300 Regional Anatomy  8cp
Spring Wollongong On Campus
Contact Hours: 2L, 2P.
Pre-requisites: BMS101 or EDUP131
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Dissection 20%; Practical Exam 35%; Theory Exam 45%
Subject Description: This course will teach detailed morphology and general pathology of human visceral organs. Clinical symptoms caused by visceral organ diseases will be explained in relation to particular region. It is a very practical course and leans towards advanced anatomy and common visceral organ diseases. The course will provide you with a detailed morphology of the head, neck, thorax, abdomen, and pelvis with particular emphasis upon the viscera. Hence, it is a necessary pre-requisite for students to have the knowledge of system anatomy (BMS101-Systemic Anatomy). You will be led, step by step, to learn the gross morphology of individual regions. The regional anatomy differs from the systemic anatomy because it focuses on the specific region linking to the understanding of the clinical problems. During the lecture you will be told firstly the location of the specific organ and its neighbouring structures, and then their blood supply, venous and lymphatic drainage, and nerve innervation. We then describe relevant visceral organ pathology and to certain extend of histology. Finally, common clinical symptoms to that specific region will be introduced. The knowledge you learn from this course will allow you to explain some common clinical health problems, which you may meet in day-to-day life. During the practical classes we will teach tissue-dissection skills and how to localise the projections of visceral organs.
Subject Objectives: At the completion of this subject, students will be able to: (a) gain a better understanding of visceral organ structures and general pathology; (b) explain common clinical problems of visceral organs; (c) dissect human cadaveric material to determine the gross structure.

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Subject Descriptions

**BMS302 Research Topics** 8cp

**Spring** Wollongong On Campus

Contact Hours: 1 semester at approx. 1 day/week.

Pre-requisites: BIOL214 and BMS202; or credit average and permission of subject coordinator.

Co-requisites: none

Restrictions: A quota may apply in BMS302 each semester.

Exclusions: Quota may apply.

Assessment: Literature critique 20%; Final Research Poster (Group) 20%; Final Report (Individual) 60%

Subject Description: This subject provides an opportunity for students to participate in a research project in one of the discipline areas: Biomedical Science, Exercise Science and Rehabilitation, Nutrition and Dietetics or Occupational Health and Safety. Students will gain experience in experimental design, data collection, analysis and interpretation and report writing plus oral and poster presentation. The subject is particularly recommended for students intending to undertake further under- or post-graduate research based studies.

Subject Objectives: At the conclusion of this subject students should be able to critically evaluate scientific literature; plan, design and perform an experiment; collect and analyse data sets; evaluate data and synthesise into ideas and concepts; communicate research design, results and ideas to a general audience; place specific research area into a broader scientific setting; and acquire a better understanding of the scientific process through the experience of research.

**BMS303 Research Topics in Exercise Science** 8cp

Spring Wollongong On Campus

Contact Hours: 1 semester at approx 1 day/week.

Pre-requisites: BEXS351

Co-requisites: none

Restrictions: A quota may apply depending upon demand.

Exclusions: none

Assessment: Literature Critique 20%; Research Poster 20%; Final Report 60%

Subject Description: This subject will provide an opportunity for students to conduct a research project in one of the following broad areas of Exercise Science: Exercise Physiology, Biomechanics, Functional Anatomy, Exercise Rehabilitation and Motor Control and Dysfunction. Topics covered will include research design, development of research hypotheses and research proposal documents, data collection and analysis through use of wave form analysis, statistical and spreadsheet software packages and the interpretation of research data within a final research report.

Subject Objectives: information unavailable

**BMS304 Research Topics In Nutrition and Dietetics** 16cp

Spring Wollongong On Campus

Contact Hours: 2T, Weeks 1-4; 11-13.

Pre-requisites: BMS312

Co-requisites: none

Restrictions: Quota may apply.

Exclusions: none

Assessment: Report, Poster

Subject Description: The subject will introduce students to specific areas of research practice in the field of nutrition and dietetics. Topics will be negotiated based on the current research activities of the metabolic research centre and its associates. Students will join a particular project and undertake certain tasks under the supervision of a designated staff member. Students will be required to collect and analyse data and report on their findings to the research team.

Subject Objectives: information unavailable

**BMS310 Community and Public Health Nutrition** 8cp

Autumn Wollongong On Campus

Contact Hours: 2hr sem/lect per week.

Pre-requisites: PHN203

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Assignments and Examination

Subject Description: Key areas of community and public health nutrition include nutrition surveillance, food policy, program planning and health promotion. There will be a focus on community nutrition practice, covering such topics as maternal and infant nutrition, school based nutrition programs, diabetes education and the health of older people in the community.

Subject Objectives: information unavailable

**BMS311 Nutrients and Metabolism** 8cp

Autumn Wollongong On Campus

Contact Hours: 2L, 2P/T, 1T p/w.

Pre-requisites: BIOL214 and BMS202; or equivalent

Co-requisites: none

Restrictions: none

Exclusions: GHMA931

Assessment: Examination, practical assessment, presentations and reports.

Subject Description: The subject will cover micronutrient metabolism, interaction of nutrients, and the quality and types of the different macronutrients in relation to the normal healthy population.

Subject Objectives: At the end of the BMS311 course the student will be able to: - Critically assess their own eating habits and relate them to normal body function; - Explain how various micronutrients are metabolised by the body - Identify sources of nutrients and interaction of nutrients - Discuss the importance of quality and types of protein, fat carbohydrate and dietary fibre. - Understand nutrient requirements that can then be expressed as food recommendations and whole diet recommendations. - Understand dietary guidelines in terms of practical outcomes e.g. sodium intake in relation to urinary sodium excretion. - Evaluate dietary intakes in terms of the Australian Guide to Healthy Eating and Dietary Guidelines for Australians. - Recommend food based dietary changes for healthy populations to meet national guidelines.

**BMS312 Research In Human Nutrition** 8cp

Autumn Wollongong On Campus

Contact Hours: 2L, 2T.

Pre-requisites: STAT151 or STAT252

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Assignments

Subject Description: This subject will introduce students to a range of key areas of research in human nutrition. Beginning with an overview of nutrition research and the development of literature reviews, topics will include diet intake methodology,
the use of nutrient databases, biomedical assays and indicators, epidemiological and ethnographic approaches as they relate to nutrition.

**Subject Objectives:** information unavailable

**BMS341 Clinical Biomechanics 8cp**

**Spring**

Wollongong On Campus

**Contact Hours:** 5 p/w.

**Pre-requisites:** BMS211 or EDUP235

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** A quota may apply in any one year.

**Assessment:** Assignment 30%; Final Exam 70%

**Subject Description:** This subject aims to extend the student's knowledge of musculoskeletal functional anatomy and biomechanics attained in BMS101 and BMS211, respectively, and to apply this knowledge in learning how to quantitatively assess human movement. Emphasis within the subject will be directed towards developing the required knowledge and skills to be able to measure, analyse and interpret data characterising both normal and pathological human motion. The subject will consist of the following content: (a) measurement in exercise science; (b) quantitative methods of analysing human motion including anthropometry, kinematic analysis (still, video, and cine photography), kinetic analysis (dynamometry and inverse dynamics), electromyography, pressure measurement, and balance; (c) theoretical and practical concerns in processing raw data characterising human motion; and (d) clinical applications of quantifying human motion.

**Subject Objectives:** As a result of participation in this subject, students will be able to: (a) describe and explain biomechanical principles and approaches used in quantitative assessment of human motion for the exercise scientist; (b) display competence in using selected quantitative tools to assess human motion; (c) explain how to process raw data characterising human motion; and (d) describe and explain appropriate methods of analysing a human motion task using quantitative techniques.

**BMS342 Advanced Exercise Physiology 8cp**

**Autumn**

Wollongong On Campus

**Contact Hours:** 2L 3P.

**Pre-requisites:** BMS242

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Mid-semester examination (multiple choice); Laboratory reports; Laboratory attendance; Final examination (oral)

**Subject Description:** While we are adapted to a more sedentary lifestyle, exercise provides a stimulus which pushes physiological function to extreme levels, providing a unique window through which the impact of stress upon human function may be explored. The knowledge of physiological function during rest and exercise stress, under various environmental conditions, is important as a basis for the optimisation of human existence, and, as such, forms an integral part of a sound physiological curriculum. The theme of this subject is to develop an understanding of physiological function under stress across the age and health spectra in groups which include the elderly, adolescent, the athlete and those with underlying pathology.

**Subject Objectives:** information unavailable

**BMS344 Cardiorespiratory Physiology 8cp**

**Autumn**

Wollongong On Campus

**Contact Hours:** 2L 3P.

**Pre-requisites:** BMS202

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Group Presentation 15%; Written Assignment 20%; Laboratory Participation and exercises 15%; Final Exam 50%

**Subject Description:** Typical content: Cardiovascular physiology: including structure, the ionic basis of cardiac electrical activity, the cardiac pump, the electrocardiogram, peripheral vascular system, control of cardiac function, vascular control and cardiovascular responses to stress within normal and abnormal function. Respiratory physiology: including structure, ventilation and diffusion, pulmonary blood flow, ventilation-perfusion relationships, gas transport to the periphery, the pulmonary pump, control of ventilation and responses to stress within normal and abnormal function.

**Subject Objectives:** information unavailable

**BMS345 Advanced Topics in Pathophysiology 8cp**

**Spring**

Wollongong On Campus

**Contact Hours:** 5 hrs/week.

**Pre-requisites:** BMS204

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** No less than credit average in 2nd year subjects.

**Subject Description:** This subject introduces students to scientific research within the area of pathophysiology. Topics will vary from year to year depending upon the availability of staff but all will emphasise current literature investigating the physiological mechanisms underlying human disease states. The subject is particularly designed for exceptional students who may be contemplating entering a postgraduate research program at the completion of their degree.

**Subject Objectives:** During this subject students will be expected to develop and to demonstrate the abilities to learn independently, to analyse critically recent scientific research findings, and to present clear written reports of their work.

**BMS346 Motor Control and Dysfunction 8cp**

**Spring**

Wollongong On Campus

**Contact Hours:** 5 p/w.

**Pre-requisites:** BMS202

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Mid session exam 35%; Final exam 65%

**Subject Description:** This subject will provide knowledge of the neurophysiological basis of the control of both normal, and dysfunctional human motion. Topics covered will include an in-depth study of the anatomy and neurophysiology of the motor control system, the neurophysiological basis of the major disorders of human motion and techniques for the recording and analysis of normal and abnormal movement patterns.
Subject Descriptions

**Subject Objectives:** At the completion of this subject, students will be able to: (a) explain the basic regulatory mechanism of human voluntary movements; (b) explain common clinical related problems of motor dysfunctions; (c) recognise motor function related gross structures on brain specimens and microstructures on tissue slides.

**BMS352 Fundamentals of Neuroscience 8cp**
- **Contact Hours:** 5 p/w.
- **Pre-requisites:** BMS204 or B/OL214
- **Co-requisites:** nil
- **Restrictions:** none
- **Exclusions:** BMS252
- **Assessment:** Written Examinations 40%, Practical Examination 25%, Written Paper 35%
- **Subject Description:** Students will gain familiarity with the physiology and the anatomy of the central nervous system. Labs will consist of a detailed study of the functional anatomy of the human brain, including tracing sensory and motor pathways and understanding neuroanatomical technique. In addition to integrating anatomical function, lectures include aspects of neural development, molecular and cellular mechanisms of signal transmission, CNS coordination with autonomic and neuroendocrine systems and the study of the neural bases for selected behaviours and neurological disorders.
- **Subject Objectives:** Upon completion of this subject, you will have a broad understanding of the scope of neuroscience, its neuroanatomical and neurophysiological bases. You will be able to describe the functional organization of the central nervous system and identify, in detail, its neural and associated structures, trace major sensory and motor pathways and integrate their functions, and identify the gross and microscopic structures and cellular processes associated with movement and balance, vision, and memory. You will also acquire an understanding of the mechanisms of information transfer in the nervous system. Finally, you will be familiar with our current understanding of the bases of selected neurological disorders. You will also gain experience in accessing, synthesizing and integrating scientific literature in the neurosciences.

**BMS354 Practicum in Exercise Science 8cp**
- **Annual**
- **Contact Hours:** 1 hr p/w Session 1; 2 hrs p/w + placement Session 2.
- **Pre-requisites:** BMS203 and BMS242
- **Co-requisites:** BEXS351
- **Restrictions:** none
- **Exclusions:** For Bachelor of Exercise Science students only
- **Assessment:** Seminar (verbal) 20%, Seminar (written) 20%, Report 50%
- **Subject Description:** Students will gain practical experience and expertise in the application of the knowledge base acquired in Exercise Science. This practicum will emphasise the utilisation of exercise as an intervention to maintain and improve the health and fitness of apparently healthy individuals. Specific problems related to human performance in the sport and health care industry, will be addressed using a multidisciplinary approach.
- **Subject Objectives:** At the conclusion of this subject the student will be able to: demonstrate excellence in research, understand neuroanatomical technique. In addition to integrating anatomical function, lectures include aspects of neural development, molecular and cellular mechanisms of signal transmission, CNS coordination with autonomic and neuroendocrine systems and the study of the neural bases for selected behaviours and neurological disorders.

**BMS401 Honours 48cp**
- **Annual**
- **Contact Hours:** Information unavailable
- **Pre-requisites:** Minimum credit average in the last year of the undergraduate program
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** Final Seminar 15%; Thesis (including viva voce) 85%
- **Subject Description:** The student will be required to write a research proposal and a thesis on an approved topic embodying the results of their supervised research. In addition, the student will be required to participate in a seminar program.
- **Subject Objectives:** Demonstrate: excellence in research; clear understanding of research question in relation to current knowledge. Ability to plan, design and perform research. Ability to collect and analyse data. Ability to evaluate data and synthesise into ideas and concepts. Ability to communicate design results and ideas. An understanding of relevant OH&S principles.

**BMS402 Joint Honours in Biomedical Science and Another Discipline 24cp**
- **Annual**
- **Contact Hours:** Information unavailable
- **Pre-requisites:** Minimum credit average in final year of undergraduate program
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** Biomedical Component - Final Seminar 15%; Thesis (including viva voce) 85%; or as arranged with other unit.
- **Subject Description:** Students enrolling in this subject must: See BMS401.
- **Subject Objectives:** Information unavailable

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**EXERCISE SCIENCE**

**BEXS351 Exercise Prescription 1: Strength and Conditioning 8cp**
- **Autumn**
- **Contact Hours:** 5 p/w.
- **Pre-requisites:** BMS203 and BMS242
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** Exercise Program Examination 20%, Practical Examination 50%, Written Examination 30%
- **Subject Description:** This subject applies knowledge from areas of functional anatomy, exercise physiology, biomechanics and exercise science practice to the design of safe, beneficial and functional resistance programs to healthy populations in the community and the work place.
Subject Objectives: To develop a body of knowledge in resistance training and conditioning; to develop a repertoire of practical skills in the application of exercise science in strength and conditioning; support the development of competent exercise physiologists, able to work in the community in a variety of clinical settings.

BEXS352 Exercise Prescription 2 - Aerobic Fitness 8cp
Spring Wollongong On Campus
Contact Hours: 5hrs p/w.
Pre-requisites: BMS242
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Exam 15%, Assignment 40%; Examination 45%
Subject Description: This subject addresses the range of skills and strategies appropriate for the design and implementation of exercise regimes in normal populations and selected pathological populations. It involves the design of programs to improve aerobic fitness and includes information related to exercise sequencing, and developing appropriate intensity of exercise based on field and laboratory based test results. Strategies for prescribing exercise within specific populations will also be included within this subject material.

Subject Objectives: At the conclusion of this subject students should be able to: Demonstrate a knowledge of general principles of exercise testing, assessment of results and exercise prescription. Explain limitations and applications of results obtained from clinical testing. Explain and demonstrate the use of periodisation in exercise prescription. Describe the impact of selected medications on exercise performance and exercise prescription targeting the aerobic energy system. Plan appropriate aerobic programs for specific populations.

BEXS401 Ergonomics 8cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: BMS203 and BMS242
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Exam; Assignments/Reports
Subject Description: This subject introduces students to the area of human factors in the design and safety of the work environment. Topics will include:- the scientific basis of ergonomics; human information processing; task design; equipment design; workplace design; environmental design and macroergonomics. The subject will be designed to complement the student’s pre-existing knowledge in the areas of functional anatomy, biomechanics and exercise physiology.

Subject Objectives: information unavailable

BEXS402 Exercise For Special Populations 8cp
Spring Wollongong On Campus
Contact Hours: 2L, 3S p/w for nominated weeks, & 150hrs placement
Pre-requisites: BEXS451 and BEXS452
Co-requisites: none
Restrictions: none
Exclusions: For Bachelor of Exercise Science & Rehabilitation students, and authorized Postgraduates
Assessment: Reports 50%; Examination 50%
Subject Description: This subject assumes knowledge and skills covered in Advanced Exercise Physiology, Exercise Prescription I & II and extends information presented in Exercise Rehabilitation I & II. The impact of selected pathologies on human performance and the effect of acute and chronic exercise on the pathology and on health of the individual require investigation and awareness by Exercise Scientists. Exercise test protocols and program delivery techniques specific to the needs of Special Populations in the community will be addressed. Techniques for planning and implementing interventions designed to address specific functional fitness problems in Special populations will be explained. The relative merits of particular tests of physiological function in these populations will also be discussed.

Subject Objectives: The objective of this subject is to provide students with information relevant to the delivery of exercise interventions to the wider population, including those people with common pathologies. The subject material will inform students about the various pathologies Exercise Physiologists are likely to come into contact with, the impact of exercise on the pathology and of the effect of the pathology on acute and chronic exercise performance. Management strategies related to exercise as the intervention will also be explained.

BEXS411 Practicum in Exercise Science A 8cp
Autumn Wollongong On Campus
Contact Hours: 1hr lecture, 2 hrs seminar.
Pre-requisites: BEXS351 and BEXS352
Co-requisites: none
Restrictions: For Exercise Science and Rehabilitation students plus authorized postgraduates
Exclusions: none
Assessment: Report from Host Organisation and presentation.
Subject Description: This subject assumes knowledge and skills covered in the first three years of the Exercise Science degree and provides information related to the various environments in which Exercise Scientists operate. Consisting largely of a monitored placement within setting in which Exercise Science is delivered to members of the community, techniques for planning and implementing appropriate interventions will be applied. Exercise programs specific to the needs of these clients will thus be designed and managed by the student. Practical skills related to exercise testing, prescription and management of the entire exercise science intervention will be rehearsed, demonstrated and applied by students enrolled in this subject.

Subject Objectives: information unavailable

BEXS412 Practicum in Exercise Science B 8cp
Spring Wollongong On Campus
Contact Hours: 2L, 3S p/w for nominated weeks, & 150hrs placement
Pre-requisites: BEXS411
Co-requisites: BEXS402
Restrictions: For Exercise Science & Rehabilitation students plus authorized postgraduates
Exclusions: none
Assessment: information unavailable
Subject Description: This subject assumes knowledge and skills covered in all areas of the Exercise Science degree. It consists of an extensive clinical placement which provides the student with the opportunity to utilise the skills and competencies developed over seven semesters at the University. Techniques for planning and implementing appropriate activity programs will be applied to a larger population of clients with increased heterogeneity of functional fitness and a range of pathologies. Exercise programs specific
to the needs of a range of clients will thus be designed and managed by the student. Practical skills related to exercise testing, prescription and management of the entire process will be rehearsed and behaviours consistent with those often emerging professional will be demonstrated by students enrolled in this subject.

**Subject Objectives:** At the conclusion of this subject students will be able to: Demonstrate the skills and competencies of a professional Exercise Scientist involved in the delivery of exercise science interventions to a range of people with selected pathologies. Manage simultaneously a number of clients with various pathologies. Work competently and professionally with other allied health professionals through demonstrating behaviours which display knowledge of ethics, confidentiality, accountability and responsibility appropriate to the placement setting.

**BEXS451 Exercise Rehabilitation 1: Musculoskeletal**

*8cp*

**Autumn**

Wollongong On Campus

**Contact Hours:** 2L, 3P.

**Pre-requisites:** BEXS351 and BMS203

**Co-requisites:** none

**Restrictions:** For Exercise Science & Rehabilitation students plus authorized postgraduates

**Exclusions:** none

**Assessment:** Theory Examination 25%; Clinical Examination 75%

**Subject Description:** This subject extends the study of exercise rehabilitation providing revision related to the structure and function of major joints and introduces common pathologies, mechanisms and outcomes. The subject covers information related to evaluation of the injured site and the design and management of appropriate exercise rehabilitative techniques designed to improve functional capabilities and prevent reinjury.

**Subject Objectives:** Subject objectives include: Understanding of basic strength and conditioning principles and how they are applied to the injured populations; ability to perform a task analysis; thorough understanding of joint and muscle structure and function; competence movement analysis of isolated and combined movement; understanding of common musculoskeletal pathologies and intervention; competent in designing and implementing effective exercise programs to maximise the potential functional gain of patients with musculoskeletal pathologies.

**BEXS452 Exercise Rehabilitation 2: Cardiorespiratory and Neurological**

*8cp*

**Autumn**

Wollongong On Campus

**Contact Hours:** 2 hrs lecture, 3 hrs seminar.

**Pre-requisites:** BEXS352 and BMS346 and BMS344

**Co-requisites:** none

**Restrictions:** For Exercise Science & Rehabilitation students plus authorized postgraduates

**Exclusions:** none

**Assessment:** Theory Examinations (2) 50%; Assignments 50%

**Subject Description:** This subject investigates the use of exercise as a clinical rehabilitative tool for patients with cardiovascular or neurological pathologies. The subject covers information related to evaluation of the injured site and the design and management of appropriate exercise rehabilitative techniques to improve functional capabilities and enhance quality of life.

**BEXS452 Exercise Rehabilitation 2: Cardiorespiratory and Neurological**

*8cp*

**Autumn**

Wollongong On Campus

**Contact Hours:** 2 hrs lecture, 3 hrs seminar.

**Pre-requisites:** BEXS352 and BMS346 and BMS344

**Co-requisites:** none

**Restrictions:** For Exercise Science & Rehabilitation students plus authorized postgraduates

**Exclusions:** none

**Assessment:** Theory Examinations (2) 50%; Assignments 50%

**Subject Description:** This subject investigates the use of exercise as a clinical rehabilitative tool for patients with cardiovascular or neurological pathologies. The subject covers information related to evaluation of the injured site and the design and management of appropriate exercise rehabilitative techniques to improve functional capabilities and enhance quality of life.

**Subject Objectives:** The objective of this subject is to provide students with information relevant to the delivery of exercise interventions to the wider population, including those people with common cardiorespiratory and neurological pathologies. The subject material will inform students about the various pathologies Exercise Physiologists are likely to come into contact with, the impact of exercise on the pathology and of the effect of the pathology on acute and chronic exercise performance. Management strategies related to exercise as the intervention will also be explained.

**NUTRITION AND DIETETICS**

**BND433 Communication In Health Care Practice**

*8cp*

**Autumn**

Wollongong On Campus

**Contact Hours:** 4L/S.

**Pre-requisites:** none

**Co-requisites:** BND434 or GHMA934

**Restrictions:** For Nutrition and Dietetics students or authorized postgraduates.

**Exclusions:** none

**Assessment:** Small Group Assessment 40%; Counselling Assessment 30%; Team Assessment 30%

**Subject Description:** The subject will introduce students to the theory and practice of communication in the professional work environment, emphasising successful communication in a range of contexts. These include client counselling, small group education, community consultation, participation in meetings, working with the media and conflict resolution. In order to promote teamwork and group skills, the subject is taught on a small group basis, and the student should prepare for each activity. In order to promote an understanding of how people learn in small groups, students are asked to keep a reflective journal and to critique the process at the completion of the subject.

**Subject Objectives:** By the end of the session, students should be able to outline contemporary theory on how people learn, and apply this to the design of a small group education session in a healthcare setting; conduct and evaluate a small group education session; analyse the communication processes displayed in healthcare counselling; conduct a counselling session at a basic level; prepare for media interviews and write press releases; participate constructively in group discussions in a range of settings where healthcare providers have a significant role.

**BND434 Dietetics**

*8cp*

**Autumn**

Wollongong On Campus

**Contact Hours:** 6L/S p/w.

**Pre-requisites:** BMS311 and BMS312

**Co-requisites:** BMS310

**Restrictions:** For Nutrition and Dietetics students or authorized postgraduates.

**Exclusions:** none

**Assessment:** Assignment 20%; Case Studies 30%; Final Exam 50%

**Subject Description:** Dietetics concerns the manipulation of food and dietary data with the aim of supporting nutritional health. This subject focuses attention on the nutritional needs of individuals, in clinical and community health settings, where nutritional intervention will improve or support the quality of life. This subject will draw upon much of your undergraduate and postgraduate studies. In particular you should revise your
understanding of nutrition through the life cycle, human physiology and metabolic biochemistry.

Subject Objectives: By the end of the session, students should be able to demonstrate knowledge sufficient to ensure safe practice of dietetics; interpret and translate scientific knowledge and principles related to nutrition into practical information; collect, organise and assess data relating to the health and nutritional status of individuals and groups.

BND435 Food Services and Dietetics Management 8cp
Autumn Wollongong On Campus
Contact Hours: 6L/P/S p/w.
Pre-requisites: BMS310 OR BMS311 OR BMS312
Co-requisites: none
Restrictions: For Nutrition and Dietetics students or authorized postgraduates.
Exclusions: none
Assessment: Menu Assignment 20%; Group Consultancy Project 25%; Seminar 15%; Management Assignment 15%; TAFE Cookery 25%

Subject Description: The subject focuses on the development of small and large scale cooking skills, menu planning and standard recipe manipulation in keeping with dietetic modifications. There is some skills development in managing the provision of meals via an institutional food service. Aspects of organisational design, leadership, motivation, negotiation, resource management, decision making and power will be explored.

Subject Objectives: information unavailable

BND437 Practical Studies in Nutrition and Dietetics 24cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Annual Wollongong On Campus
Spring 2002/ Autumn 2003
Contact Hours: 16wks FT prac placement.
Pre-requisites: BND433 and BND434 and BND435
Co-requisites: none
Restrictions: For Nutrition and Dietetics students or authorized postgraduates.
Exclusions: none
Assessment: information unavailable

Subject Description: This subject comprises a practicum of at least 16 weeks duration which is spent in hospitals, community health centres, and other food-related organisations. Students will be under the supervision of experienced practitioners appropriate to the placement requirements. This placement is designed to develop the student's skills and competencies in a range of areas including specialised therapeutic diets and the provision of community nutrition programs. It also provides the students with opportunities to rehearse and demonstrate both interviewing and counselling skills, as well as information and behaviours required to allow the Dietitian to operate as an independent professional. Awareness of, and behaviours consistent with the knowledge of ethics requirements, confidentiality, accountability and other responsibilities of the autonomous professional operating either independently or as a member of a multidisciplinary team should be demonstrated by the student.

Subject Objectives: information unavailable
NURSING

BMS112 Human Physiology 1: Principles and Systems 6cp
Spring Wollongong On Campus
Contact Hours: 3L, 3P/T/Comp.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: EDUP132
Assessment: Theory Exam 65%; Practical Exam 35%
Subject Description: Following an introduction to the cellular, physiochemical and homeostatic principles essential to an understanding of physiology, specific systems will be investigated in detail. Specific topics will include: nervous, muscular, cardiovascular, and respiratory systems, acid-base balance, renal function, digestive processes and energy balance. Four wet practices and computer simulations will exemplify lecture material; tutorials will concentrate on graphic analysis, data handling and simple analyses.
Subject Objectives: information unavailable

SCIE122 Biology For Nursing 6cp
Spring Wollongong On Campus
Contact Hours: 2 hrs L, 3 hrs Prac.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with BIOL 103
Assessment: Practical class attendance and reports; Practical and theory examinations
Subject Description: This subject provides an introduction to biological structure and function at the biochemical, genetic, cellular, and tissue levels, and how interactions between these levels of organisation vary during health and disease. It examines the interactions between micro-organisms of medical relevance and their hosts.
Subject Objectives: To gain understanding of the structure and function of cells and tissues; improve knowledge of how cellular functions are affected by nutritional, hormonal and genetic variation; to gain appreciation of the roles of medication and gene therapy in treating certain diseases; to become familiar with the most common microbes affecting human health; to understand how the human body responds to infection; to appreciate the efficacy of various physical and chemical methods in reducing microbial transmission; and to gain experience in laboratory techniques.

NURS121 Foundations of Nursing Care: Theory and Practice 16cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: NURS132
Assessment: information unavailable.
Subject Description: Provides the foundation for all other nursing care subjects. Focuses on the nurse's role as a facilitator of care, health educator and health promoter. Students will be introduced to the skills of observing, assessing, comforting and protecting clients in their care.
Subject Objectives: information unavailable.

NURS122 Professional Studies 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: NURS132
Assessment: information unavailable.
Subject Description: Introduces students to the communication process and basic computer literacy skills. Examines the historical and philosophical influences which contributed to the current structure of nursing, the relationship of nursing theory to nursing practice and examines those aspects of the law relevant to nursing practice.
Subject Objectives: information unavailable.

NURS123 Introduction to Psychology 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,1T.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Refer Department
Subject Description: This subject provides an introductory overview of areas of psychological investigation, introducing students to the study of individuals and human experience. It aims to acquaint non-psychology majors with the discipline, but may also provide additional background to students intending to specialize in psychology. Topics covered include learning, cognition, motivation, emotion, personality and life span development.
Subject Objectives: information unavailable

NURS131 Maternal and Child Health Nursing 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: NURS121 or NURS132
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Introduces students to concepts and skills needed to effectively provide care to women, their babies and family during the childbearing period, under the supervision of midwives. The nurse's role in the family's experience of pregnancy and childbirth is explored and professional, legal, ethical and cultural issues are discussed.
Subject Objectives: information unavailable.

NURS132 Nursing Studies For Enrolled Nurses 12cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Advanced Enrolled Nursing Certificate or Certificate IV in Enrolled Nursing (TAFE)
Co-requisites: none
Restrictions: none
Exclusions: NURS121, NURS122
Assessment: information unavailable.
Subject Description: This subject recognises prior learning in the Advanced Enrolled Nursing Certificate from TAFE. Those components of the content of both NURS121 and NURS122 not
previously adequately covered by students are developed in this subject.

Subject Objectives: information unavailable.

NURS140 Introductory Communication Studies 6cp
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Refer Department

Subject Description: Focuses on the fundamentals of communications, including interpersonal and crosscultural communication concepts. An introduction to word-processing is included.

Subject Objectives: information unavailable

NURS141 Introductory Psychology For Health Care Workers 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: Introduces the way an individual's psychological system functions, factors that influence this, and how this relates to indigenous health. Topics include consideration of both indigenous understanding and the psychological effects of colonisation, and current relevant mental health issues, including drug abuse, suicide and family breakdown.

Subject Objectives: information unavailable.

NURS142 Indigenous Family Studies 1 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: Focuses on Aboriginal family structure, Aboriginal kinship and kinship systems, gender roles, marriage, the "traditional Aboriginal community", the organisation aspects of the Aboriginal family, and health maintenance in the family context. It aims to articulate the cultural, economic, social and political functions of the Aboriginal family.

Subject Objectives: information unavailable.

NURS143 Indigenous Health Patterns 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: Examines the biomedical model of disease and then compares and contrasts it to indigenous models of health and illness practiced by the Aboriginal community. Focus will also be on structural and individual obstacles to crosscultural interactions and community empowerment.

Subject Objectives: information unavailable.

NURS144 Indigenous Family Studies 2 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Subject not on offer in 2002.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: Examines the sources of Aboriginal family history. Methods of researching family history and the construction of a family chart are important aspects of this subject.

Subject Objectives: information unavailable.

NURS221 Advocacy and Ethics in Nursing 6cp
Contact Hours: 2L,1T.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: Provides an introduction to ethical issues in nursing practice and approaches to critical reasoning about these ethical issues. The role of the nurse has always involved negotiating difficult moral problems, but the emerging status of nursing as a profession and developments in medical technology create for the nurse-practitioner a range of new and troubling moral challenges. This subject examines the role of nurses as ethical decision makers and as advocates for the interests of patients/clients. Various issues in health care ethics are critically examined.

Subject Objectives: On successful completion of the subject students will have an increased awareness of morally sensitive issues and the conceptual bases of those arguments, will be able to critically analyse the ethical arguments put forward and will have developed their written and oral skills in arguing clearly and logically for their own moral positions.

NURS222 Acute Care Nursing 8cp
Contact Hours: Refer Department
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: Develops in prospective registered nurses the analytical skills necessary for appropriate clinical decision-making within the collaborative role. The requisite skills are primarily those of assessment and problem identification in the form of nursing diagnoses and collaborative problems.

Subject Objectives: information unavailable

NURS223 Acute Care Nursing Practice 8cp
Contact Hours: Refer Department
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Examines pathophysiological changes in the human body that occur in common disease processes. Students will apply this knowledge to the patient situation within the framework of a nursing model, initially in simulated settings and then in acute clinical areas.

Subject Objectives: information unavailable

NURS225 Health Psychology For Nurses 6cp
Spring Wollongong On Campus
Contact Hours: 2L,2T.
Pre-requisites: NURS123
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Focuses on the interaction between psychological, social and biological factors in health and illness, and introduces basic helping interventions. Topics covered include biopsychosocial factors in stress, pain, substance abuse, cancer, cardiovascular disease, psychosomatic and eating disorders and terminal illnesses.

Subject Objectives: information unavailable

NURS226 Diagnostics & Therapeutics 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,2T.
Pre-requisites: NURS121 and SCIE121 or NURS132 and SCIE121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Examines diagnostic processes and pharmacology used in the treatment of pathophysiological disorders. The clinical judgement necessary for safe and effective nursing assessment and intervention in relation to diagnostics and drug therapy will be explored. The collaborative aspects of diagnostic and therapeutic processes will be examined. The principles of pharmacology and the impact of drug groups will be studied.

Subject Objectives: information unavailable

NURS227 Human Bioscience 3 6cp
Autumn Wollongong On Campus
Contact Hours: 4L,3P.
Pre-requisites: SCIE122
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Gives students an understanding of the structure and functioning of the human body. The major emphasis is on physiology rather than anatomy. All the organ systems of the human body are studied and appropriate links are made with both pathophysiology and human development.

Subject Objectives: information unavailable

NURS240 Current Services in Aboriginal Health 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Differences between rural and urban patterns of Aboriginal health, including community based and mainstream models of Aboriginal health service delivery will be examined.

Subject Objectives: information unavailable

NURS241 Contemporary Indigenous Health Issues 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: An historical and contemporary review of Government policies relating to Aboriginal health, and their implication for family structure and cultural practice will be examined.

Subject Objectives: information unavailable

NURS242 Functional Community Structures 6cp
Autumn Wollongong Flexible
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Focuses on needs assessment techniques. Involves the analysis and planning of local program development, relevant health promotion strategies and program evaluation.

Subject Objectives: information unavailable

NURS243 Special Topic 6cp
Spring Wollongong Flexible
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Examines social factors affecting illness patterns. Health area analyses, epidemiological considerations and relationships between health, illness and lifestyle. Submission preparation is addressed.

Subject Objectives: information unavailable

NURS255 Pathophysiology For Registered Nurses 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: Bachelor of Nursing (Conversion)(860) only
Exclusions: none
Assessment: information unavailable

Subject Description: Examines the concepts that are relevant to an understanding of pathophysiological processes. It will also provide a review of normal body structure and function.

Subject Objectives: information unavailable.
NURS321 Mental Health/Psychiatric Nursing: Theory and Practice 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,2T.
Pre-requisites: NURS222 and NURS223
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Provides a theoretical and practical introduction to mental health, mental illness and the nurse's role in the care and management of people with psychiatric symptomatology. Explores the social and cultural aspects of mental illness, deinstitutionalisation, appropriate service delivery structures and the effectiveness of established management strategies.
Subject Objectives: information unavailable

NURS322 Developmental Disability: Theory and Practice 6cp
Autumn Wollongong On Campus
Contact Hours: 2L,2T.
Pre-requisites: NURS222 and NURS223
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Provides a theoretical and practical introduction to the field of developmental disability. Particular focus will be given to the concepts of normalisation and integration of people with disabilities into society.
Subject Objectives: information unavailable

NURS324 Preparation For Professional Practice 6cp
Spring Wollongong On Campus
Contact Hours: 2L,2T.
Pre-requisites: NURS222 and NURS223
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Prepares the nursing student for professional practice by consolidating and extending the medical/surgical care students have undertaken in the previous two years of the course, and examines the role of the nurse as a professional innovator and as an agent for professional and social change.
Subject Objectives: information unavailable

NURS325 Community Development Nursing: Theory and Practice 6cp
Autumn Wollongong On Campus
Contact Hours: 3L,1T.
Pre-requisites: NURS223
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Refer Department
Subject Description: Explores the factors involved in facilitating changes in behaviour which optimises health in line with the Ottawa Charter. The community development nursing role incorporates health promotion and teaching and is focused on people and groups wishing to achieve, maintain or defend their health situations. Students will participate actively in the assessment of community need and then develop a health educational/health promotional strategy and implement it to contribute to the solution of that community's needs.
Subject Objectives: information unavailable

NURS326 Community Health Nursing: Theory and Practice 6cp
Spring Wollongong On Campus
Contact Hours: 2L,2T.
Pre-requisites: NURS222 and NURS223
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Refer Department
Subject Description: During this subject students have the opportunity to transfer the concepts of clinical nursing gained in previous subjects, to the community care context. They will also be introduced to the role of nurses in public health and gain an awareness of the many diverse roles that community health nurses may undertake in a comprehensive health care system.
Subject Objectives: information unavailable

NURS327 Health and Human Ecology 6cp
Spring Wollongong On Campus
Contact Hours: 1L,2T.
Pre-requisites: NURS223
Co-requisites: none
Restrictions: none
Exclusions: NURS313
Assessment: information unavailable
Subject Description: Examines global health care issues that impact upon all open systems including human kind. Pathogenic social, political and economic processes that underlie health and health care are discussed, including their associations with air, water and noise pollution, malnutrition, high infant mortality and infections and modern population epidemics.
Subject Objectives: information unavailable

NURS328 Nursing Resources Management 6cp
Autumn Wollongong On Campus
Contact Hours: 1L,2T.
Pre-requisites: NURS223
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Refer Department
Subject Description: Focuses on the working environment of the nurse, and a review is made of models of nursing intervention and of issues which have an impact upon work practices, including hospital evaluation, evaluation of nursing practice, and occupational health and safety.
Subject Objectives: information unavailable

NURS330 Research in Nursing 8cp
Annual Wollongong On Campus
Contact Hours: 1L,2T.
Pre-requisites: NURS222 and NURS223
Co-requisites: none
Restrictions: none
Exclusions: none
Subject Descriptions

Assessment: Refer Department
Subject Description: Develops research appreciation and application skills, encompassing issues of research design, establishing the rigour of a research process, methods of data collection and analysis, the ethics of research and evaluating and writing research-based literature.
Subject Objectives: information unavailable

NURS331 Research For Registered Nurses 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 1L,2T.
Pre-requisites: none
Co-requisites: none
Restrictions: Bachelor of Nursing (Conversion)(860) only
Exclusions: none
Assessment: Refer Department
Subject Description: Introduces registered nurses, undertaking the certificate or diploma to bachelor of nursing conversion course, to research in nursing. Develops research appreciation and application skills, encompassing issues of research design, establishing the rigour of a research process, methods of data collection and analysis, the ethics of research and evaluating and writing research-based literature.
Subject Objectives: information unavailable

NURS336 Research in Nursing 2 4cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: As for SOC203
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Information unavailable.
Subject Objectives: information unavailable.

NURS340 Aboriginal Health - New Directions 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Analyses the changing traditional roles in the Aboriginal family, examines support organisations, and presents new strategies for service provision organisations.
Subject Objectives: information unavailable.

NURS341 Special Topic 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: NURS243
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Enables students to focus on an area of policy, education or management of relevance to the functioning of Aboriginal families/communities. Strategies that take into account changing patterns of health service provision will be examined.
Subject Objectives: information unavailable.

NURS343 Indigenous Community Development: Theory and Practice 6cp
Spring Wollongong Flexible
Contact Hours: Information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Refer Department
Subject Description: Students will apply the principles of primary health care to design and develop a project for an Indigenous community.
Subject Objectives: Information unavailable

NURS344 Indigenous Community Health: Theory and Practice 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable.
Subject Description: This subject guides students through an analysis of the health needs of an Indigenous community and implementation of a project developed in NURS343.
Subject Objectives: Information unavailable.

NURS361 Professional Nursing 6cp
Spring Wollongong Flexible
Contact Hours: Information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Refer Department
Subject Description: Examines the theory which underpins the patterns of clinical practice. The major foci will include: clinical decision making, critical thinking, reflective practice, conflict resolution and critical analysis of clinical practice. Students will be guided to analyse practice and develop critical thinking skills that will encourage them to develop strategies for change in clinical areas.
Subject Objectives: Information unavailable

NURS401 Nursing Honours 48cp
Annual Wollongong On Campus
Contact Hours: 3 per week
Pre-requisites: Completion of the requirements for the Bachelor of Nursing degree
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Refer Department
Subject Description: This course is designed to provide supervision for a beginning researcher, through individual mentoring and group seminars. The major component of the course is to guide the student through the research process, including formulating testable questions from the research literature; devising appropriate methods to test these questions; obtaining ethics committee approval; data collection and analysis; oral presentation of results; and report writing. Students will develop and conduct a research project resulting in a thesis presentation.
Subject Objectives: Information unavailable
PSYCHOLOGY

PSYC101  Introduction to Behavioural Science  6cp  
Autumn  Wollongong  On Campus  
Contact Hours: 2 hr lect/1 hr tut.  
Pre-requisites: none  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable  
Subject Description: This subject provides an introductory overview of areas of psychological investigation. It aims to acquaint non-psychology majors with the discipline, but may also provide additional background to students intending to major in psychology. Topics covered include learning, cognition, motivation, emotion, personality and lifespan development.  
Subject Objectives: information unavailable

PSYC121  Foundations of Psychology A  6cp  
Autumn  Wollongong  On Campus  
Contact Hours: 2 hr lect/1.5 hr tut.  
Pre-requisites: none  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable  
Subject Description: This subject is a prerequisite for enrolment in second year psychology subjects. The subject introduces students to the science of psychology. The content will focus on the way the individual's biological and psychological systems function. In particular, the subject will examine the biological bases of human behaviour, lifespan development, motivation and emotion, personality, and consciousness.  
Subject Objectives: information unavailable

PSYC122  Foundations of Psychology B  6cp  
Spring  Wollongong  On Campus  
Contact Hours: 2 hr lect/1.5 hr tut.  
Pre-requisites: none  
Co-requisites: PSYC123  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable  
Subject Description: This subject is a prerequisite for enrolment in second year psychology subjects. The subject examines the way in which individuals perceive and learn about their world, the ways in which group membership influences behaviour, the nature of psychological dysfunction, and the role of psychology in influencing health. Topics covered include learning, perception, memory, cognition, psychology of abnormality, social psychology, and human relations.  
Subject Objectives: information unavailable

PSYC123  Theory Design and Statistics in Psychology  6cp  
Spring  Wollongong  On Campus  
Contact Hours: 2hrs Lec, 1.5hr Lab.  
Pre-requisites: none  
Co-requisites: PSYC122  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable  
Subject Description: This subject is a prerequisite for enrolment in second year psychology subjects. The subject introduces students to scientific methods, the design of psychological research, data analysis and interpretation. Emphasis will be placed on the acquisition of fundamental statistical skills and a capacity for critical evaluation of research design, in both experimental and non-experimental applications. The link between psychological theory, method and analysis will be explored. Ethical issues in psychological research will be addressed.  
Subject Objectives: information unavailable

PSYC216  Psychology of Physical Activity  6cp  
Autumn  Wollongong  On Campus  
Contact Hours: 2hrs Lec, 1.5hrs Lab.  
Pre-requisites: (PSYC101) OR (PSYC121) OR (PSYC122) OR (PSYC123)  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable  
Subject Description: PSYC 216 examines evidence on the health benefits of physical activity; how physical activity habits may be measured; how physical activity is distributed in populations; its major determinants; how psychological theories or models can guide interventions to promote physical activity; the evidence base on which interventions can be developed; and evidence on the outcomes of trials of interventions, including community, mass-media and public health policy initiatives.  
Subject Objectives: information unavailable

PSYC231  Personality  6cp  
Autumn  Wollongong  On Campus  
Contact Hours: 2hrs Lec, 1.5hrs Lab.  
Pre-requisites: (PSYC121 and PSYC122 and PSYC123)  
Co-requisites: none  
Restrictions: none  
Exclusions: none  
Assessment: information unavailable  
Subject Description: This subject provides overviews of, and bases of comparison between, many of the major approaches to personality. These include psychoanalysis, behaviouralism, existentialism, personal construct psychology, neo-Freudian approaches, trait theory, social learning theory and humanistic psychology. Coverage includes both accounts of normal and abnormal personalities, individual differences, developmental dimensions, relevant research and therapeutic relevance where appropriate.  
Subject Objectives: information unavailable
Subject Descriptions

PSYC232 Research Methods & Statistics 6cp
Autumn Wollongong On Campus
Contact Hours: 2 hrs lab. for nightly, plus 5 hrs of online activities over the session.
Pre-requisites: (PSYC121 and PSYC122 and PSYC123)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This course provides students with the skills necessary to understand variability, and probabilistic behaviours, developed around an understanding of experimental and quasi-experimental methods. It focuses on an understanding of experimental methods and choice of appropriate statistical analysis for a given experimental design. This course introduces the conceptual rationale underlying each analysis covered in the course is explained, as is its application to research in the behavioural sciences.
Subject Objectives: information unavailable

PSYC234 Biological Psychology and Learning 6cp
Autumn Wollongong On Campus
Contact Hours: 2hrs Lec; 1.5hrs Lab.
Pre-requisites: (PSYC121 and PSYC122 and PSYC123)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject introduces the physiological mechanisms underlying behaviour and changes in behaviour brought about by experience, as well as the psychophysiological measures frequently employed to study these processes. Topics include the nervous and endocrine systems, arousal, attention, learning, memory, language, Pavlovian and instrumental conditioning, and habituation. Laboratory classes introduce the techniques and experimental methods used in the study of learning and psychophysiology, including the recording of the electrocardiograph, skin conductance and the electroencephalograph.
Subject Objectives: information unavailable

PSYC235 Introduction to Psychological Assessment 6cp
Spring Wollongong On Campus
Contact Hours: 2hr Lec; 1.5hr Lab.
Pre-requisites: (PSYC121 and PSYC122 and PSYC123)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This course focuses on the assessment of human psychological dispositions and behaviour. It explains the conceptual rationale underlying psychological assessment, and the practical aspects of using psychological tests. Discussion includes the psychometric basis of tests and ethical issues related to psychological testing and assessment. Tutorial classes focus on the practical aspects of test administration and interpretation, and examine the psychometric properties of specific tests. Students use the SPSS statistical package for the psychometric data analysis.
Subject Objectives: information unavailable

PSYC236 Cognition and Perception 6cp
Spring Wollongong On Campus
Contact Hours: 2hr Lec; 1.5hr Lab.
Pre-requisites: (PSYC121 and PSYC122 and PSYC123)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: This subject provides an overview of two broad content areas in experimental psychology. Perception is the study of how information is acquired from the environment through sensory organs. Cognition is concerned with the storage, manipulation and retrieval of such information. Lectures draw upon findings from both behavioural and neuropsychological studies. Topics covered include visual and auditory perception, memory, language, categorisation and reasoning. Students learn how to conduct, analyse and interpret experimental research.
Subject Objectives: information unavailable

PSYC241 Developmental and Social Psychology 6cp
Spring Wollongong On Campus
Contact Hours: 2hrs Lec; 1.5 Lab.
Pre-requisites: (PSYC121 and PSYC122 and PSYC123)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: Discusses core issues in child and adolescent development with an emphasis on individual behaviour in the social context. The first half of the course will provide a developmental framework from the pre-natal stage to the transition to adulthood. The second half emphasises the contributions of social psychology to understanding individual behaviour. The development of the social self, attitudes, and the importance of social cognition will be covered.
Subject Objectives: information unavailable

PSYC246 Special Research Topic 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Annual Wollongong On Campus
Contact Hours: information unavailable.
Pre-requisites: Prior approval by Head of Department required.
Co-requisites: Not to be counted with more than one other 200 level psychology subject.
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: On successful completion of this subject students will be able to identify the major steps necessary to carry out a research project in Psychology, including problem specification, surveying the existing literature, appropriate data collection and analysis techniques, and report writing. Students will understand the importance of team work and have demonstrated small group presentation techniques.
Subject Objectives: information unavailable
Subject Objectives:

enrolled.

Pre-requisites: 24 cp of PSYC at 200 level (excluding PSYC216) including PSYC231

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable

Subject Description: This subject involves a systematic examination of the variety of mental disorders found in adults and children. In addition to the descriptive psychopathology, necessary to identify the disorders, contemporary issues relating to theories of causation and treatment are examined. In addition, clinical assessment and methods of therapeutic intervention make up an important component of this course.

Subject Objectives: information unavailable

PSYC317 Advanced Learning 8cp

Spring Wollongong On Campus

Contact Hours: 2hr lec; 1.5hr Lab.

Pre-requisites: 24 cp of PSYC at 200 level (excluding PSYC216) including (PSYC232 and PSYC234)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable

Subject Description: This subject covers a range of topics in contemporary animal and human learning theory including: interactions between classical and instrumental conditioning; discrimination and categorisation; perceptual learning; learning without awareness; observational learning; comparative cognition; the physiological bases of learning and memory; conditioned immune responses; and other health and clinical applications of conditioning therapy.

Subject Objectives: information unavailable

PSYC318 Change Throughout the Lifespan 8cp

Spring Wollongong On Campus

Contact Hours: 2hr Lec; 1.5hr Lab.

Pre-requisites: 24 cp of PSYC at 200 level (excluding PSYC216) including PSYC231

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable

Subject Description: This subject focuses on the kinds of changes that occur to people throughout their life and ways to facilitate and cope with those processes. Changes in intelligence, personality and social interactions in adulthood and old age are considered. Theories concerning the nature of life-span change are addressed, along with relevant empirical studies. One approach to understanding and facilitating changes, personal construct psychology, will be considered in detail. Some personal exploration will be undertaken by those enrolled.

Subject Objectives: information unavailable

PSYC345 Advanced Cognition 8cp

Spring Wollongong On Campus

Contact Hours: 2 hr lecture; 1.5 tutorial.

Pre-requisites: 24 cp of PSYC at 200 level (excluding PSYC216) including (PSYC232 and PSYC236)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable

Subject Description: This subject will extend students knowledge of cognitive psychology from the framework acquired in PSYC236. It provides a detailed examination of four areas: (i) short-term memory, (ii) reasoning, (iii) the psychology of reading, and (iv) connectionism. Students working in groups will be required to carry out a small original research project on a topic relevant to the course. In addition there will be a full program of experimental laboratory classes.

Subject Objectives: information unavailable

PSYC347 Assessment and Intervention 8cp

Autumn Wollongong On Campus

Contact Hours: 2hr Lec; 1.5hr Lab.

Pre-requisites: 24 cp of PSYC at 200 level (excluding PSYC216)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Agency visit and report, seminar, final exam.

Subject Description: This subject is meant to provide students with an overview of the assessment procedures and intervention programmes commonly used, and the efficacy of these programmes for common psychological problems including anxiety, depression, eating, substance abuse, and common disorders among children. While different approaches to therapy will be briefly discussed, the strategies used in cognitive-behavioural assessment and therapy will be covered more extensively.

Subject Objectives: information unavailable

PSYC348 History and Metatheory of Psychology 8cp

Spring Wollongong On Campus

Contact Hours: 2hr Lec; 1.5hr Lab.

Pre-requisites: 24 cp of PSYC at 200 level (excluding PSYC216)

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable

Subject Description: This subject introduces (1) the origins and development of major approaches in modern psychology, and (2) important conceptual issues in psychology. It discusses the concepts needed to evaluate the theories, methods, accounts and practices that we encounter in psychology, and applies these concepts to various psychological problems. Topics include materialist and causal views of psychology, behaviourist analyses of mental processes, psychoanalytic explanation, rationalist and phenomenological accounts of mind and ethical and ideological considerations in psychology.

Subject Objectives: information unavailable

401
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: PSYC354 develops skills in the design and analysis of research investigations involving statistics. It is a pre-requisite for Psychology IV Honours. Statistical computing is an essential part of the course. Topics covered: statistical techniques in psychological research, experimental and observational research designs, analysis of survey data; analysis of variance and covariance; regression; factor analysis; multivariate analysis.

Subject Objectives: information unavailable

PSYC498 Psychology IV 48cp
Annual Wollongong On Campus
Contact Hours: see detail in course guides.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Building on the first three years of the Bachelor of Psychology course, this subject will cover principal theoretical, empirical, and practical aspects of the areas in psychology that prepare students for work as psychologists: health psychology; counselling skills, in both client-centred and cognitive-behavioural orientations; child and adolescent psychology; psychological assessment; and professional skills for the psychologist. In addition, students will undertake an empirical research project of 9,000 words, under the supervision of an academic staff member.

Subject Objectives: information unavailable

PSYC499 Psychology IV Honours 48cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: Candidates will generally complete: a supervised 15,000 word Empirical Thesis; a supervised 6,000 word minor Theoretical Thesis, and three compulsory seminars in research, advanced methodology, and professional skills. Students may choose to replace the 6,000 word theoretical Thesis with an optional subject chosen from the following list: * Assessment in Applied Psychology * Child and Adolescent Psychology * Cognitive and Affective Neuroscience * Counselling Psychology * Health Psychology * Models of the Human Brain and their Applications

Subject Objectives: information unavailable
PHN103  Introduction to Public Health  6cp
Contact Hours: Refer Department for session and hours.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research skills exercise, weekly discussion papers, essay, tutorial presentation and summary paper, short answer examination.
Subject Description: The aim of the subject is to introduce students to the scope and development of the modern public health movement. It will examine the various disciplines and theories that have shaped its development. The subject will assess, using examples, the different challenges including the influence of policy, environment and structure, facing delivery of public health programs in Australia and overseas. Attendance at tutorials is compulsory. Refer Graduate School of Public Health on 02 4221 3463.
Subject Objectives: information unavailable

PHN203  Current Issues in Food and Nutrition  6cp
Spring  Wollongong  On Campus
Contact Hours: Refer Department.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: A combination of quiz, assignment work and an examination.
Subject Description: This subject incorporates an overview of nutrients important to human health and their metabolism. It introduces students to ideas on the causes, nature and effect of a number of current food and nutrition issues. Examples will be drawn from Australia and overseas. Students will critically discuss the role of influential factors, including: interaction of biological, lifestyle and sociocultural aspects of human behaviour; changes in the nature of the food system; role of government and professional groups; and consumer interests.
Subject Objectives: Students will be able to: 1. Describe the major nutrients important to human health and discuss the metabolism and sources of these nutrients. 2. Describe the nutritional needs of people at different stages of life. 3. Discuss the nature of current food and nutrition issues, including the role of influential factors such as biology, socio-cultural influences, the nature of the food supply and key stakeholder groups. 4. Describe the major causes of food-borne illnesses and how the pattern of food-borne illnesses is changing.

PHN205  Public Health: Issues and Concepts 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: PHN103 and SOC103
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research skills assignment, tutorial presentation, major written assignment and examination.
Subject Description: This subject develops students' understanding of public health issues. It examines the causes, nature and effects of a number of major illnesses and their distribution, and introduces students to the social meaning of disease and illness. The subject will critically examine public health issues such as the relationship between socioeconomic class, ethnicity, gender and health, using major public health problems as case studies.
Subject Objectives: At the completion the student should be able to: 1. Define commonly used terms including health, disease, illness, infection and basic epidemiological terms, and discuss the conceptual differences between terms such as disease and illness. 2. Critically examine models/explanations of disease/illness and their relationship to the social, economic and biomedical system. 3. Identify changing trends in important public health problems. 4. Critically examine current public health approaches, including relevant ethical issues, in relation to health and disease, prevention and treatment.

PHN330  Public Health Research Methods 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: PHN103 or STAT252
Co-requisites: none
Restrictions: none
Exclusions: Not to count with BMS312
Assessment: information unavailable.
Subject Description: This subject aims to introduce concepts and skills in public health research. This subject is structured to obtain theoretical knowledge in public health research and leads to PHN331 that develops selected skills in carrying out such research. The subject will examine the process of research, social and ethical context of research, common methods in public health research (both quantitative and qualitative), appraisal of published public health studies, epidemiological research design, quasi-experimental design, design of qualitative studies, issues of validity, reliability and bias, critique of published studies and literature review, practical skills in data management.
Subject Objectives: information unavailable

PHN331  Public Health Research in Practice 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: PHN330
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: This subject is structured to be taken after PHN330. The objective of the subject is for students to obtain practical skills in public health research in a team/project environment. Students will develop practical skills in selected research methods including, setting survey objectives, developing appropriate survey instruments, conducting focus groups, content analysis, interviewing, methods of testing reliability and validity, field procedures and data collection. They will also develop skills in program evaluation including identifying evaluation focus and objectives, ascertaining issues and concerns, process evaluation, impact and outcome evaluation, skills in writing for a conference/journal. Students may choose to work in a team on a specific research project or program evaluation.
Subject Objectives: information unavailable.
Subject Descriptions

PHN401 Honours 48cp
Annual Wollongong On Campus

Contact Hours: Refer dept.

Pre-requisites: An undergraduate degree in a relevant discipline approved by the Head of the Graduate School of Public Health.

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Thesis 70%, other written work 30% plus two presentations.

Subject Description: The Honours program is an individual research endeavour under supervision. The candidate is encouraged to research a contemporary issue within the research area of members of the Graduate School of Public Health. It is expected that there be both a theoretical and empirical content to the project. Guidelines for this subject are available from the Coordinator. Seminars are held in both sessions to evaluate the research proposal and to assess progress. The student is required to pass an examination of the detailed research proposal before about one third of the research time has passed. The final assessment of the subject combines an oral presentation with the written thesis. Some coursework may be included to correct the deficiencies in the academic background of the candidate. Relevant studies will be specified by the Honours Committee at the time of admission.

Subject Objectives: On successful completion of this subject you should be able to design, plan and implement a substantial piece of research; exercise creative intellectual enquiry; personally initiate self-directed learning; work in teams and groups and present to and exchange ideas with peers and colleagues in an appropriate manner; present the results in an appropriate professional format (both oral and written).
Faculty of Informatics

Member Units

Electrical, Computer and Telecommunications Engineering
Information Technology and Computer Science
Mathematics and Applied Statistics

Degrees Offered

Bachelor of Computer Bioinformatics
Bachelor of Computer Science
Bachelor of Engineering (Computer Engineering)
Bachelor of Engineering (Electrical Engineering)
Bachelor of Engineering (Internet Engineering)
Bachelor of Engineering (Telecommunications Engineering)
Bachelor of Information and Communication Technology
Bachelor of Information Technology
Bachelor of Internet Science and Technology
Bachelor of Mathematics
Bachelor of Mathematics (Advanced)
Bachelor of Mathematical Sciences
Bachelor of Mathematics and Economics
Bachelor of Mathematics and Finance

Double Degrees

Bachelor of Engineering (Computer Engineering) - Bachelor of Arts
Bachelor of Engineering (Computer Engineering) - Bachelor of Commerce
Bachelor of Engineering (Computer Engineering) - Bachelor of Mathematics
Bachelor of Engineering (Computer Engineering) - Bachelor of Science
Bachelor of Engineering (Electrical Engineering) - Bachelor of Arts
Bachelor of Engineering (Electrical Engineering) - Bachelor of Commerce
Bachelor of Engineering (Electrical Engineering) - Bachelor of Mathematics
Bachelor of Engineering (Electrical Engineering) - Bachelor of Science
Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Arts
Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Commerce
Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Mathematics
Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Science
Bachelor of Engineering (Civil, Environmental, Materials, Mechanical, Mechatronics, Mining) - Bachelor of Computer Science
Bachelor of Engineering (Civil, Environmental, Materials, Mechanical, Mechatronics, Mining) - Bachelor of Mathematics
Bachelor of Mathematics - Bachelor of Laws
Bachelor of Mathematics - Bachelor of Computer Science
Bachelor of Creative Arts - Bachelor of Computer Science
Bachelor of Computer Science - Bachelor of Laws
Bachelor of Computer Science - Bachelor of Science
Bachelor of Information and Communication Technology - Bachelor of Laws
Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/ or contact the relevant Faculty.

**Bachelor of Computer Bioinformatics**

This degree will be offered in 2002 subject to final approval by Council

**Entry requirements**

Students entering this degree require a minimum UAI of 85 (or equivalent) with HSC Mathematics.

**Course Requirements**

To qualify for the Bachelor of Computer Bioinformatics (BCompBioinf), students must complete 198 credit points as detailed, over four years full-time (or equivalent part-time). Students achieving a WAM of greater than 67.5 will undertake the Honours strand in their final year, while other students will continue in the non-Honours strand.

**Program of Study**

**Year 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL104</td>
<td>Evolution, Biodiversity and Environment</td>
<td>6</td>
</tr>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A: Introductory Physical &amp; General Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td>CHEM104 Chemistry/Chemistry 1D (Introductory Chemistry)</td>
<td>6</td>
</tr>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>MATH141</td>
<td>Mathematics 1C Part 1</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td>MATH187 Mathematics 1A Part 1</td>
<td>6</td>
</tr>
<tr>
<td>BIOL103</td>
<td>Molecules, Cells and organisms</td>
<td>6</td>
</tr>
<tr>
<td>CHEM102</td>
<td>Chemistry 1B: Introductory organic &amp; Physical Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td>CHEM105 Chemistry/Chemistry 1E (Introductory Chemistry)</td>
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<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
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<tr>
<td>MATH142</td>
<td>Mathematics 1C Part 2</td>
<td>6</td>
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<tr>
<td>or</td>
<td>MATH188 Mathematics 1A Part 2</td>
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**Year 2**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>CSCI213</td>
<td>Java Programming &amp; Internet</td>
<td>6</td>
</tr>
<tr>
<td>CSCI235</td>
<td>Databases</td>
<td>6</td>
</tr>
<tr>
<td>MATH283</td>
<td>Mathematics IIE for Engineers Part 1</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td>MATH203 Linear Algebra</td>
<td>6</td>
</tr>
<tr>
<td>BIOL215</td>
<td>Introductory Genetics</td>
<td>6</td>
</tr>
<tr>
<td>CSCI203</td>
<td>Data Structures, Algorithms, Systems</td>
<td>6</td>
</tr>
<tr>
<td>MATH111</td>
<td>Applied Mathematical Modelling 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one CSCI 200 - level elective.

**Year 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL303</td>
<td>Biotechnology: Applied Molecular and Cell Biology</td>
<td>6</td>
</tr>
<tr>
<td>CSCI311</td>
<td>Software Process Management</td>
<td>6</td>
</tr>
<tr>
<td>CSCI321</td>
<td>Project</td>
<td>12</td>
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<tr>
<td>BIOL318</td>
<td>Bioinformatics and Diagnostic Biotechnology</td>
<td>8</td>
</tr>
<tr>
<td>CSCI315</td>
<td>Database Design and Implementation</td>
<td>6</td>
</tr>
<tr>
<td>STAT231</td>
<td>Probability and Random Variables</td>
<td>6</td>
</tr>
<tr>
<td>STAT304</td>
<td>Operations Research and Applied Probability</td>
<td>6</td>
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<tr>
<td>or</td>
<td>CSCI323 Artificial Intelligence</td>
<td>6</td>
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</tbody>
</table>

406
Year 4 (Honours) - WAM >67.5
BIOL320 Molecular Cell Biology 8
INFO403 (BompBioinf Hons Project) 24
300/400 Level elective 6
STAT304 Operations Research and Applied Probability 6
or
CSCI464 Neural Computing 6
INFO411 Data Mining and Knowledge Discovery 6
INFO403 (BCompDioinf Hons Project) 12

Year 4 (Non-Honours)
BIOL320 Molecular Cell Biology 8
STAT304 Operations Research and Applied Probability 6
or
CSCI464 Neural Computing 6
INFO411 Data Mining and Knowledge Discovery 6

Plus 300/400 level electives to make 48 credit points.

Notes:
1. Electives must come from Biology, Computer Science and/or Mathematics Schedule
2. For the non-honours strand, it is required at least 24 cr pts be at 400 Level from the Biology, Computer Science and/or Mathematics Schedule
3. For the honours strand, it is required at least 30 cr pts be at 400 Level from the Biology, Computer Science and/or Mathematics Schedule

Bachelor of Computer Science

Course Requirements
To qualify for the award of the degree of Bachelor of Computer Science, candidates must satisfactorily complete at least 144 credit points from either or both the Computer Science Schedule of Subjects and the General Schedule (see the list of recommended subjects from the General Schedule).

The 144 credit points must include;
1. the following core subjects:
   CSCI101 Introduction to Information Technology A 6
   CSCI102 Introduction to Information Technology B 6
   CSCI111 Computer Science 1A 6
   CSCI121 Computer Science 1B 6
   CSCI204 Programming: The C Family and Unix 6
   CSCI213 JAVA Programming and the Internet 6
   MATH122 Probability and Logic 6
2. 24cp of 200 level CSCI or IACT subjects.
3. at least 36 credit points of 300-level subjects of which 24 credit points must be CSCI subjects, including CSCI321; 24 credit points at 300-level must be at the pass grade or better;
4. at least 90 credit points of Computer Science Schedule of Subjects;
5. if an approved double major is attempted, then only 78 credit points of Computer Science subjects need be taken;
6. no more than 24 credit points (ie 1/6) of subjects to be at PC grade;
7. no more than 60 credit points at 100-level.

Major Studies Available in BCompSc
Students enrolled in this degree can major in Computer Science (CS18), Secure Distributed Systems (CS19) or Software Development (CS20). Students wishing to major in Secure Distributed Systems should complete the core subjects as well as CSCI212, CSCI214, CSCI316 and CSCI322. Students wishing to major in Software Development should complete the core subjects as well as CSCI205, CSCI235, CSCI311 and CSCI325.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSCI101</td>
<td>Introduction to Information Technology A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI102</td>
<td>Introduction to Information Technology B</td>
<td>6</td>
</tr>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
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</tr>
<tr>
<td>MATH122</td>
<td>Probability and Logic</td>
<td>6</td>
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<tr>
<td>CSCI112</td>
<td>Fundamentals of Computer Science</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
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<tr>
<td>CSCI131</td>
<td>Introduction to Computer Systems</td>
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</tr>
<tr>
<td>CSCI203</td>
<td>Data Structures, Algorithms, Systems</td>
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</tr>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
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<tr>
<td>CSCI205</td>
<td>Development Methods and Tools</td>
<td>6</td>
</tr>
<tr>
<td>CSCI212</td>
<td>Operating Systems</td>
<td>6</td>
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<tr>
<td>CSCI213</td>
<td>Java Programming and the Internet</td>
<td>6</td>
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<td>CSCI214</td>
<td>Distributed Systems</td>
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<td>CSCI235</td>
<td>Databases</td>
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<tr>
<td>CSCI236</td>
<td>3D Modelling &amp; Animation</td>
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<td>CSCI311</td>
<td>Software Process Management</td>
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<td>CSCI313</td>
<td>Professional Programming Practices</td>
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<td>CSCI315</td>
<td>Database Design and Implementation</td>
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<td>CSCI316</td>
<td>Network Computing</td>
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<td>CSCI321</td>
<td>Project</td>
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<tr>
<td>CSCI322</td>
<td>Systems Administration</td>
<td>6</td>
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<tr>
<td>CSCI323</td>
<td>Artificial Intelligence</td>
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<tr>
<td>CSCI324</td>
<td>Human Computer Interface</td>
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<tr>
<td>CSCI325</td>
<td>Software Engineering Formal Methods</td>
<td>6</td>
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<tr>
<td>CSCI333</td>
<td>Compilers</td>
<td>6</td>
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<tr>
<td>CSCI334</td>
<td>Interfacing and Real Time Programming</td>
<td>6</td>
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<tr>
<td>CSCI336</td>
<td>Computer Graphics</td>
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<tr>
<td>CSCI337</td>
<td>organisation of Programming Languages</td>
<td>6</td>
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<tr>
<td>CSCI361</td>
<td>Computer Security</td>
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<tr>
<td>CSCI365</td>
<td>CS Hons Preliminary</td>
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<tr>
<td>CSCI370</td>
<td>Special Topics in Computer Science A</td>
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<tr>
<td>CSCI371</td>
<td>Special Topics in Computer Science B</td>
<td>6</td>
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<tr>
<td>CSCI372</td>
<td>Special Topics in Computer Science C</td>
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<tr>
<td>CSCI373</td>
<td>Special Topics in Computer Science D</td>
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<tr>
<td>CSCI399</td>
<td>Server Technology</td>
<td>6</td>
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<tr>
<td>CSCI425</td>
<td>Topics in Software Engineering</td>
<td>6</td>
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<tr>
<td>CSCI444</td>
<td>Perception and Planning</td>
<td>6</td>
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<tr>
<td>CSCI445</td>
<td>Parallel Architectures and Algorithms</td>
<td>6</td>
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<tr>
<td>CSCI446</td>
<td>Multi-Media Studies</td>
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<tr>
<td>CSCI450</td>
<td>Software Engineering Requirements &amp; Specifications</td>
<td>6</td>
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<tr>
<td>CSCI457</td>
<td>Advanced Topics in Database Management</td>
<td>6</td>
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<tr>
<td>CSCI463</td>
<td>Advanced Computer Graphics</td>
<td>6</td>
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<tr>
<td>CSCI464</td>
<td>Neural Computing</td>
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<tr>
<td>CSCI465</td>
<td>Design and Analysis of Algorithms</td>
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<tr>
<td>CSCI466</td>
<td>Coding for Secure Communication</td>
<td>6</td>
</tr>
<tr>
<td>CSCI467</td>
<td>Complexity Theory</td>
<td>6</td>
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<tr>
<td>CSCI468</td>
<td>Network Security</td>
<td>6</td>
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<tr>
<td>CSCI471</td>
<td>Advanced Computer Security</td>
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<tr>
<td>INFO411</td>
<td>Data Mining and Knowledge Discovery</td>
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<tr>
<td>INFO412</td>
<td>Mathematics for Cryptography</td>
<td>6</td>
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<tr>
<td>INFO413</td>
<td>Information Theory</td>
<td>6</td>
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<tr>
<td>IACT201</td>
<td>Information Technology and Citizens’ Rights</td>
<td>6</td>
</tr>
<tr>
<td>IACT202</td>
<td>The Structure and organisation of Telecommunications</td>
<td>6</td>
</tr>
<tr>
<td>IACT301</td>
<td>Information and Communication Security Issues</td>
<td>6</td>
</tr>
<tr>
<td>IACT302</td>
<td>Telecommunications Network Planning</td>
<td>6</td>
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<tr>
<td>IACT303</td>
<td>World-Wide Networking</td>
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<tr>
<td>STAT131</td>
<td>Understanding Variation and Uncertainty</td>
<td>6</td>
</tr>
<tr>
<td>MATH141</td>
<td>Mathematics 1C - Part I</td>
<td>6</td>
</tr>
</tbody>
</table>
Recommended Subjects from the General Schedule for Bachelor of Computer Science Candidates

- CCS105 Introduction to Communication and Cultural Studies 6
- CREA102 Professional Practices I 6
- ECTE195 Design and Management 6
- ECTE196 Introduction to Internet Technology 6
- ECTE233 Digital Hardware 1 6
- EDIT102 Information Technology for Learning 6
- EDUC313 Interactive Multimedia by Design 6
- EDUC314 Interactivity and the Web 6
- ELS151 English for Academic Purposes: A Second Language Perspective 6
- ELS161 English for Academic Purposes: A First Language Perspective 6
- ENGG154 Engineering Design and Innovation 6
- LANG110 An Introduction to Linguistics 6
- MATH111 Applied Mathematical Modelling 6
- MGMT215 Small Business Management 6
- PHIL112 Logic A 6
- STS128 Computers in Society 6
- WRIT101 Introduction to Writing 6
- WRIT210 Writing for the Internet 6

Suggested Undergraduate Degree Programs in Computer Science

The following information is intended as a guideline to the candidate in selecting suitable supplementary subjects to make a reasonable pattern for Computer Science degrees.

All candidates are expected to consult with the School and Faculty advisers before committing themselves completely to any particular pattern, whether outlined below or not.

It is emphasised that the following programs are based on the usual 48 credit points per year, totalling 144 credit points over 3 years.

A major study in either Computer Science, Secure Distributed Systems or Software Development can be combined with any of the following:

- Mathematics (CS01)
- Electronic Commerce (CS29, CS30 or CS36)
- Electronics (CS37, CS38 or CS39)
- Management (CS09)
- Marketing (CS10)
- Biomedical Sciences (CS32)
- Business Information Systems (CS35)
- English Language Studies (CS08)
- Biological Sciences (CS32)
- Chemistry (CS33)
- Geosciences (CS34)

Students may also combine a major study in Software Development with a major study in Secure Distributed Systems (CS28).

Major Study in Computer Science and Mathematics (code CS01)

Candidates wishing to combine a major study in Computer Science with a major study in Mathematics are advised to complete at least 60 credit points of Mathematics subjects, including at least 24 credit points of 300-level Mathematics and/or Applied Statistics and 18 credit points of 200-level Mathematics and/or Applied Statistics.
## Course Structures

### Major study in Computer Science (code CS29), Secure Distributed Systems (code CS30) or Software Development (code CS36), and Electronic Commerce

Candidates wishing to combine a major study in Computer Science with a major study in Electronic Commerce (EC) are advised to complete the following 54 credit points of study, in addition to the course requirements for the BCompSc.

- IACT201 Information Technology and Citizens' Rights
- IACT303 World Wide Networking
- Plus 18 credit points of 200 level Electronic Commerce subjects;
- Plus 18 credit points of 300 or 400 level Electronic Commerce subjects;
- and
- Plus 6 credit points of 200 or 300 level Electronic Commerce subjects.

Subjects taken in this major are not to be counted in the 78 credit points required for the Computer Science major (See degree requirement number 4 for double majors in BCompSc).

Note: Students should choose electives carefully if they wish to follow this major study as many of the following subjects have pre-requisites.

#### Electronic Commerce (EC) Subjects

- ACCY231 Information Systems in Accounting 6
- ACCY332 Advanced Information Systems in Accounting 6
- ACCY335 Systems Analysis and Design in Accounting and Finance 6
- ACCY353 Global Electronic Finance 6
- BUSS211 Systems Analysis and Design 6
- BUSS212 Database Management Systems 6
- BUSS311 Advanced Database Management Systems 6
- BUSS312 Distributed Information Systems 6
- COMM300 Innovation and Electronic Commerce 6
- ECON319 Electronic Commerce and the Economics of Information 6
- ECON312 Industrial Economics 6
- ECON230 Quantitative Analysis for Decision Making II 6
- IACT201 Information Technology and Citizens' Rights 6
- IACT406 Business On-line 6
- IACT417 Information Management 6
- IACT419 Online Information Services 6
- MGMT200 Management and Electronic Business 6
- MARK301 Marketing on the Internet 6
- LAW210 Contract Law 6
- LAW331 Intellectual Property Law 6
- CSCI213 Java Programming and the Internet 6
- CSCI214 Distributed Systems 6
- CSCI311 Software Process Management 6
- CSCI316 Network Computing 6
- CSCI361 Computer Security 6

### Major study in Computer Science and Management (code CS09)

Candidates wishing to combine a major study in Computer Science with a major study in Management are advised to undertake the following subjects (60 credit points in total) from within the Department of Management.

- ACCY100 Accounting 1A 6
- ACCY102 Accounting 1B 6
- MGMT102 Business Communications 6
- MGMT110 Introduction to Management 6
- MGMT201 organisational Behaviour 6
- MGMT213 Introduction to Marketing 6
- MGMT314 Business Policy 6
- MGMT398 Human Resource Management 6

Plus 12 credit points from 300-level subjects offered by the Department of Management.
Major study in Computer Science and Marketing (code CS10)

Candidates wishing to combine a major study in Computer Science with a major study in Marketing are advised to undertake the following subjects (48 credit points in total) from within the Department of Marketing.

**Compulsory subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK101</td>
<td>Introduction to Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK217</td>
<td>Consumer Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MARK239</td>
<td>Information for Marketing Decisions</td>
<td>6</td>
</tr>
<tr>
<td>MARK319</td>
<td>Applied Marketing Research</td>
<td>6</td>
</tr>
<tr>
<td>MARK333</td>
<td>Advertising And Promotion Strategy</td>
<td>6</td>
</tr>
<tr>
<td>MARK344</td>
<td>Marketing Strategy</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus two subjects (12 credit points) from the following:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK240</td>
<td>Marketing and Consumer Behaviour in East and South-East Asia</td>
<td>6</td>
</tr>
<tr>
<td>MARK270</td>
<td>Services Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK301</td>
<td>Marketing on the Internet</td>
<td>6</td>
</tr>
<tr>
<td>MARK317</td>
<td>Business to Business Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK343</td>
<td>International Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK356</td>
<td>New Product Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK359</td>
<td>Sales Management</td>
<td>6</td>
</tr>
<tr>
<td>MARK395</td>
<td>Tourism Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK397</td>
<td>Retail Marketing Management</td>
<td>6</td>
</tr>
</tbody>
</table>

Major study in Computer Science (code CS37), Secure Distributed Systems (code CS38) or Software Development (code CS39), and Electronics

Current BCompSc degree rules plus the completion of the following subjects:

**100 level (18cp)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>or MATH141 or MATH144 or MATH161</td>
<td></td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>or MATH142 or MATH143 or MATH162</td>
<td></td>
</tr>
</tbody>
</table>

**200 level (24cp)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE202</td>
<td>Circuits And Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE212</td>
<td>Electronics And Communications</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH283</td>
<td>Mathematics 2e For Engineers, Part 1</td>
<td>6</td>
</tr>
</tbody>
</table>

**300 level (24cp)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>6</td>
</tr>
<tr>
<td>ECTE363</td>
<td>Communication Theory</td>
<td>6</td>
</tr>
<tr>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
</tr>
<tr>
<td>ECTE333</td>
<td>Digital Hardware 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE344</td>
<td>Control Theory</td>
<td>6</td>
</tr>
</tbody>
</table>

Major study in Computer Science (code CS37) and Biomedical Sciences (code CS32).

Candidates wishing to combine a major study in Computer Science with a major study in Biomedical Sciences are advised to undertake the following subjects (54 credit points in total) from within the Department of Biomedical Sciences.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS101</td>
<td>Systematic Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>BMS112</td>
<td>Human Physiology I: Principles and Systems</td>
<td>6</td>
</tr>
<tr>
<td>BMS202</td>
<td>Human Physiology II: Control Mechanisms</td>
<td>6</td>
</tr>
<tr>
<td>BMS242</td>
<td>Exercise Physiology</td>
<td>6</td>
</tr>
<tr>
<td>BMS342</td>
<td>Advanced Exercise Physiology</td>
<td>8</td>
</tr>
<tr>
<td>BMS344</td>
<td>Cardiorespiratory Physiology</td>
<td>8</td>
</tr>
</tbody>
</table>
Course Structures

and either

BMS211 Foundations of Biomechanics 6
or
BMS252 Introduction to Neuroscience 6
and either
BMS341 Clinical Biomechanics 8
or
BMS346 Motor Control and Dysfunction 8

Major study in Computer Science and Business Information Systems (code CS35)

Candidates wishing to combine a major study in Computer Science with a major study in Business Information Systems are advised to undertake the following subjects (48 credit points in total) from within the Department of Business Systems.

BUSS211 Systems Analysis and Design 6
BUSS212 Database Management Systems 6
BUSS214 Business Programming II 6
BUSS215 Business Programming III 6
BUSS311 Advanced Database Management Systems 6
or
BUSS312 Distributed Information Systems 6
and
BUSS315 Knowledge Based Information Systems 6
BUSS316 Information Systems Development Methodologies 6
BUSS317 Business Programming IV 6

Major study in Computer Science and English Language Studies (code CS08)

Non-English Speaking Background (NESB) Student Stream

Candidates wishing to combine a major study in Computer Science with a major study in English Language Studies are advised to undertake the following subjects (66 credit points in total) from within the Department of Modern Languages.

ELS151 English for Academic Purposes: A Second Language Perspective 6
ELS152 English Language Studies 1 6
LANG110 An Introduction to Linguistics: The English Language 8
ELS261 English Language Studies 2 8
ELS262 English Language Studies 3 8
LANG210 Communicating in a Foreign Language 8

Native English Speaking Background Student Stream

A major study in English Language Studies will comprise of 60 credit points for native speakers of English.

ELS161 English for Academic Purposes: A First Language Perspective 6
LANG110 An Introduction to Linguistics: The English Language 8
ELS261 English Language Studies 2 8
ELS262 English Language Studies 3 8
LANG210 Communication in a Foreign Language 8

Major study in Computer Science and Biological Sciences (code CS32)

Environmental and Ecological Strand

BIOL103 Molecules, Cells and organisms 6
BIOL104 Evolution, Biodiversity and Environment 6
BIOL240 organisms and their Life Cycles 6
BIOL241 Biodiversity: Classification and Sampling 6
BIOL251 Principles of Ecology and Evolution 6
STAT252 Statistics for the Natural Sciences 6
BIOL332 Comparative Physiology: Adaptation and Environment 8
BIOL351 Conservation Biology: Marine and Terrestrial Populations 8
BIOL355 Marine and Terrestrial Ecology 8
**Cell and Molecular Strand**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL103</td>
<td>Molecules, Cells and organisms</td>
<td>6</td>
</tr>
<tr>
<td>BIOL104</td>
<td>Evolution, Biodiversity and Environment</td>
<td>6</td>
</tr>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A</td>
<td>6</td>
</tr>
<tr>
<td>CHEM102</td>
<td>Chemistry 1B</td>
<td>6</td>
</tr>
<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>BIOL215</td>
<td>Introductory Genetics</td>
<td>6</td>
</tr>
<tr>
<td>BIOL320</td>
<td>Molecular Cell Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL303</td>
<td>Biotechnology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL321</td>
<td>Cellular and Molecular Immunology</td>
<td>8</td>
</tr>
</tbody>
</table>

**Major study in Computer Science and Chemistry (code CS33)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A</td>
<td>6</td>
</tr>
<tr>
<td>CHEM104</td>
<td>Chemistry 1A</td>
<td>6</td>
</tr>
<tr>
<td>CHEM102</td>
<td>Chemistry 1B</td>
<td>6</td>
</tr>
<tr>
<td>CHEM105</td>
<td>Chemistry 1B</td>
<td>6</td>
</tr>
<tr>
<td>CHEM211</td>
<td>Inorganic Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM212</td>
<td>organic Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM213</td>
<td>Physical Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM214</td>
<td>Analytical and Environmental Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM311</td>
<td>Inorganic Chemistry III</td>
<td>8</td>
</tr>
<tr>
<td>CHEM314</td>
<td>Instrumental Analysis</td>
<td>8</td>
</tr>
<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM321</td>
<td>organic Synthesis and Reactivity</td>
<td>8</td>
</tr>
<tr>
<td>CHEM327</td>
<td>Environmental Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM340</td>
<td>Chemistry Laboratory Project</td>
<td>8</td>
</tr>
<tr>
<td>CHEM364</td>
<td>Molecular Structure and Spectroscopy</td>
<td>8</td>
</tr>
</tbody>
</table>

**At least 3 subjects taken from the following**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM311</td>
<td>Inorganic Chemistry III</td>
<td>8</td>
</tr>
<tr>
<td>CHEM314</td>
<td>Instrumental Analysis</td>
<td>8</td>
</tr>
<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM321</td>
<td>organic Synthesis and Reactivity</td>
<td>8</td>
</tr>
<tr>
<td>CHEM327</td>
<td>Environmental Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM340</td>
<td>Chemistry Laboratory Project</td>
<td>8</td>
</tr>
<tr>
<td>CHEM364</td>
<td>Molecular Structure and Spectroscopy</td>
<td>8</td>
</tr>
</tbody>
</table>

**Major study in Computer Science and Geosciences (code CS34)**

Two 100-level subjects chosen from the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS102</td>
<td>Earth Environments and Resources</td>
<td>6</td>
</tr>
<tr>
<td>GEOS111</td>
<td>Planet Earth</td>
<td>6</td>
</tr>
<tr>
<td>GEOS112</td>
<td>Physical Environments</td>
<td>6</td>
</tr>
<tr>
<td>GEOS142</td>
<td>The Human Environment</td>
<td>6</td>
</tr>
<tr>
<td>GEOS239</td>
<td>Remote Sensing of the Environment (recommended)</td>
<td>6</td>
</tr>
<tr>
<td>GEOS339</td>
<td>Geographic Information Systems (recommended)</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus 18 credit points of 200-level GEOS subjects, depending on 100-level choice.

Plus 16 credit points of 300-level GEOS subjects, depending on 200-level choice.

**Bachelor of Computer Science (Honours)**

Candidates who achieve a credit average or better in the Bachelor of Computer Science or a major in computer science in another degree are eligible to enrol in an additional year of study towards a Bachelor of Computer Science (Honours) (BCompSc(Hons)).

To qualify for the award of the Bachelor of Computer Science (Honours), candidates must complete CSCI401. The level of honours awarded at the completion of the course is determined in accordance with University Course Rule Attachment D1(2).

The program of study for BCompSc(Hons), (ie CSCI401 Computer Science IV Honours) is 48 credit points and will include:

1. an 18 credit point project;
2. 30 credit points of 400-/900-level Postgraduate Computer Science subjects;
3. with the permission of the Head of School, candidates may substitute up to 12 credit points of subjects with 300-level Computer Science subjects or 400-level subjects from another discipline;
4. attendance at a series of seminars on research methodology in Autumn Session is compulsory (including quantitative and qualitative analysis). Seminars will cover the purpose of research, formulating a research question, conducting a literature review and writing a research proposal. Students will learn how to design an appropriate research plan; requirements for scholarly writing will also be discussed and the process of undertaking a research project will be analysed.

Note
Individual results for subjects attempted will not be released. Instead, the final result for CSCI401 will be calculated from the total results for the project and subjects. Set out below are a sample of subjects which may be taken as part of the BCompSc(Hons).

Topics in Software Engineering
Perception and Planning
Parallel Architectures and Algorithms
Multi-Media Studies
Advanced Topics in Database Management
Advanced Computer Graphics
Neural Computing
Design and Analysis of Algorithms
Coding for Secure Communication
Complexity Theory
Network Security
Advanced Computer Security

Joint Honours with Computer Science
There is a number of high achieving students undertaking double majors in the BCompSc. Many of these students wish to continue on to honours. It is desirable that there be provision made for these students to be able to undertake a joint honours project. CSCI405: Computer Science Joint Honours provides for these students.

The thesis is usually integrated with the other academic unit. The subject CSCI405 comprises one half of CSCI401. A topic for the thesis will be determined in consultation with the other academic unit.

Bachelor of Engineering (Computer Engineering)
The School of Electrical, Computer and Telecommunications Engineering offers a course leading to a Bachelor of Engineering (Computer Engineering) which may be completed in a minimum of four years of full-time study. Subjects are scheduled so that it may also be undertaken on a part-time basis, in which case the duration will depend upon the particular circumstances of the student. Progression is by subject but the various subject pre- and co-requisites must be satisfied.

The Degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year. The classes of honours awarded are defined in the Course Rules.

There is a recommended program for a full-time four year minimum course and a preferred part-time program for students in approved, full-time professional employment. For holders of TAFE Certificates and Associate Diplomas, programs will be determined on an individual basis but exemptions of up to 48 credit points may apply.

All BE students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

Recommended Full-Time Program
As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year of the full-time program before beginning the recommended third year of the full-time program and to complete satisfactorily the recommended second year of the full-time program before beginning the recommended fourth year of the full-time program. With the approval of the Head of School, these requirements may be waived.

Year 1
CSCI111 Computer Science 1A 6
CSCI121 Computer Science 1B 6
ECTE101 Electrical Engineering 1 6
ECTE150 Engineering Design and Management 1 6
MATH187 Mathematics 1A, Part 1 6
MATH188 Mathematics 1A, Part 2 6
PHYS141 Fundamentals of Physics A 6
PHYS142 Fundamentals of Physics B 6

Note:
MATH187 may be replaced by MATH141/143/161
MATH188 may be replaced by MATH142/144/162

Year 2
CSCI204 Programming: The C Family and Unix 6
or
CSCI213 Java Programming and the Internet 6

Plus
ECTE202 Circuits and Systems 6
ECTE212 Electronics and Communications 6
ECTE222 Power Engineering 1 6
ECTE233 Digital Hardware 1 6
ECTE250 Engineering Design and Management 2 6
ENGG291 Engineering Fundamentals 6
MATH283 Mathematics 2E for Engineers, Part 1 6

Year 3
CSCI205 Development Methods and Tools 6
ECTE301 Digital Signal Processing 1 6
ECTE313 Electronics 6
ECTE333 Digital Hardware 2 6
ECTE344 Control Theory 6
ECTE350 Engineering Design and Management 3 6
ECTE363 Communication Theory 6

Plus Computer Option

Year 4
CSCI311 Software Process Management 6
ECTE431 Real-time Computing 3
ECTE432 Computer Systems 3
ECTE457 Thesis 18

Plus 6 Final Year Specialisation Subjects

Final Year Specialisation Subjects
These will be selected from the following list of subjects. Unless class numbers warrant, only eight subjects will be offered in any year.

Note: A pre-requisite of "all year 2 subjects or equivalent" applies to EACH Final Year Specialisation Subject in addition to any other pre- or co-requisite given.

ECTE401 Fast Signal Processing Algorithms 3
ECTE402 Stochastic Signal Processing 3
ECTE403 Image and Video Processing 3
ECTE404 Adaptive Signal Processing 3
ECTE405 Speech and Audio Processing 3
ECTE411 AC-Sourced Power Electronics 3
ECTE412 DC-Sourced Power Electronics 3
ECTE413 Micro-Electronics 3
ECTE421 Power Quality 3
ECTE422 Power Quality Monitoring 3
ECTE423 Power Systems 3
ECTE424 Power System Abnormalities 3
ECTE425 Industrial Drives and Actuators 3
ECTE426 Power Equipment Design 3
ECTE441 Intelligent Control 3
ECTE442 Computer Controlled Systems 3
ECTE443 Digital Control 3
## Course Structures

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE444</td>
<td>Identification and Optimal Control</td>
<td>3</td>
</tr>
<tr>
<td>ECTE461</td>
<td>Telecommunications Queuing Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECTE462</td>
<td>Telecommunications System Modelling</td>
<td>3</td>
</tr>
<tr>
<td>ECTE463</td>
<td>Transmission Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECTE464</td>
<td>Antennas and Propagation</td>
<td>3</td>
</tr>
<tr>
<td>ECTE465</td>
<td>Wireless Communications</td>
<td>3</td>
</tr>
<tr>
<td>ECTE466</td>
<td>Spread Spectrum Communications</td>
<td>3</td>
</tr>
<tr>
<td>ECTE467</td>
<td>Mobile Networks</td>
<td>3</td>
</tr>
<tr>
<td>ECTE468</td>
<td>Error Control Coding</td>
<td>3</td>
</tr>
<tr>
<td>ECTE471</td>
<td>Robotics Manipulators</td>
<td>3</td>
</tr>
<tr>
<td>ECTE472</td>
<td>Robotics Sensory Control</td>
<td>3</td>
</tr>
<tr>
<td>ECTE481</td>
<td>Internet Protocols</td>
<td>3</td>
</tr>
<tr>
<td>ECTE482</td>
<td>Internet Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECTE483</td>
<td>Computer Networking</td>
<td>3</td>
</tr>
<tr>
<td>ECTE484</td>
<td>Network Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECTE485</td>
<td>Internet Communications</td>
<td>3</td>
</tr>
<tr>
<td>ECTE486</td>
<td>Telecommunications Network Management</td>
<td>3</td>
</tr>
</tbody>
</table>

### Computer Option

#### Year 3/Stage 4:

With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
   (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
   (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

### Professional Experience

Full-time BE students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between third and fourth years.

### Recommended Part-Time Program for Students in Full-Time, Approved Professional Employment

Students are required to complete satisfactorily the recommended first two stages of the part-time program before beginning the recommended fourth stage of the part-time program and to complete satisfactorily the recommended third stage of the part-time program before beginning the recommended sixth stage of the part-time program. With the approval of the Head of School, these requirements may be waived.

#### Stage 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

Note:

MATH187 may be replaced by MATH141/143/161
MATH188 may be replaced by MATH142/144/162

#### Stage 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Stage 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCI213</td>
<td>Java Programming and the Internet</td>
<td>6</td>
</tr>
</tbody>
</table>
Bachelor of Engineering (Electrical Engineering)

The School of Electrical, Computer and Telecommunication Engineering offers a course leading to a Bachelor of Engineering (Electrical Engineering) which may be completed in a minimum of four years of full-time study. Subjects are so scheduled that it may also be undertaken on a part-time basis, in which case the duration will depend upon the particular circumstances of the student. Progression is by subject but the various subject pre- and co-requisites must be satisfied. The degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year. The classes of honours awarded are defined in the Course Rules.

There is a recommended program for a full-time four year minimum course and a preferred part-time program for students in approved, full-time professional employment. For holders of TAFE Certificates and Associate Diplomas, programs will be determined on an individual basis but exemptions of up to 48 credit points may apply.

All BE students must sit for and pass an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

Recommended Full-Time Program

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year of the full-time program before beginning the recommended third year of the full-time program and to complete satisfactorily the recommended second year of the full-time program before beginning the recommended fourth year of the full-time program. With the approval of the Head of School, these requirements may be waived.

Year 1

CSCI111 Computer Science 1A 6
CSCI121 Computer Science 1B 6
ECTE101 Electrical Engineering 1 6
ECTE150 Engineering Design and Management 1 6
MATH187 Mathematics 1A, Part 1 6
MATH188 Mathematics 1A, Part 2 6
Course Structures

PHYS141  Fundamentals of Physics A  6
PHYS142  Fundamentals of Physics B  6

Note:

MATH187 may be replaced by MATH141/143/161
MATH188 may be replaced by MATH142/144/162

Year 2

CSCI204  Programming: The C Family and Unix  6
or
CSCI213  Java Programming and the Internet  6
Plus
ECTE202  Circuits and Systems  6
ECTE212  Electronics and Communications  6
ECTE222  Power Engineering 1  6
ECTE233  Digital Hardware 1  6
ECTE250  Engineering Design and Management 2  6
ENGG291  Engineering Fundamentals  6
MATH283  Mathematics 2E for Engineers, Part 1  6

Year 3

ECTE301  Digital Signal Processing 1  6
ECTE313  Electronics 3A  6
ECTE323  Power Engineering 2  6
ECTE333  Digital Hardware 2  6
ECTE344  Control Theory  6
ECTE350  Engineering Design and Management 3  6
ECTE363  Communication Theory  6

Plus Electrical Option

Year 4

ECTE457  Thesis  18

Plus 10 Final Year Specialisation Subjects

Final Year Specialisation Subjects

These will be selected from the following list of subjects. Unless class numbers warrant, only 12 subjects will be offered in any year.

Note: A pre-requisite of 'all Year 2 subjects or equivalent' applies to EACH Final Year Specialisation Subject in addition to any other pre- or co-requisite given.

ECTE401  Fast Signal Processing Algorithms  3
ECTE402  Stochastic Signal Processing  3
ECTE403  Image and Video Processing  3
ECTE404  Adaptive Signal Processing  3
ECTE405  Speech and Audio Processing  3
ECTE411  AC-Sourced Power Electronics  3
ECTE412  DC-Sourced Power Electronics  3
ECTE413  Micro-Electronics  3
ECTE421  Power Quality  3
ECTE422  Power Quality Monitoring  3
ECTE423  Power Systems  3
ECTE424  Power System Abnormalities  3
ECTE425  Industrial Drives and Actuators  3
ECTE426  Power Equipment Design  3
ECTE431  Real-time Computing  3
ECTE432  Computer Systems  3
ECTE441  Intelligent Control  3
ECTE442  Computer Controlled Systems  3
ECTE443  Digital Control  3
ECTE444  Identification and Optimal Control  3
ECTE461  Telecommunications Queuing Theory  3
ECTE462  Telecommunications System Modelling  3  
ECTE463  Transmission Systems  3  
ECTE464  Antennas and Propagation  3  
ECTE465  Wireless Communications  3  
ECTE466  Spread Spectrum Communications  3  
ECTE467  Mobile Networks  3  
ECTE468  Error Control Coding  3  
ECTE471  Robotics Manipulators  3  
ECTE472  Robotics Sensory Control  3  
ECTE481  Internet Protocols  3  
ECTE482  Internet Engineering  3  
ECTE483  Computer Networking  3  
ECTE484  Network Design and Analysis  3  
ECTE485  Internet Communications  3  
ECTE486  Telecommunications Network Management  3  

With the approval of the School Head, two Electrical Engineering Specialisation Subjects may be replaced by a suitable equivalent subject offered by another Department or School.

**Electrical Option**

Year 3/Stage 5:

With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by the School of Mathematics and Applied Statistics (MATH or STAT); or

(b) one of the following subjects: ECTE281 Embedded Internet Systems, ECTE291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

**Professional Experience**

Full-time BE students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between third and fourth year.

**Recommended Part-Time Program for Students in Full-Time, Approved Professional Employment**

Students are required to complete satisfactorily the recommended first two stages of the part-time program before beginning the recommended fourth stage of the part-time program and to complete satisfactorily the recommended third stage of the part-time program before beginning the recommended sixth stage of the part-time program. With the approval of the Head of School, these requirements may be waived.

**Stage 1**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

Note:

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MATH188 may be replaced by MATH142/144/162

**Stage 2**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
<td>6</td>
</tr>
</tbody>
</table>
Course Structures

Stage 3
CSCI204  Programming: The C Family and Unix  6
or
CSCI213  Java Programming and the Internet  6
Plus
ECTE202  Circuits and Systems  6
ECTE212  Electronics and Communications  6
ECTE222  Power Engineering 1  6
MATH283  Mathematics 2E for Engineers, Part 1  6

Stage 4
ECTE323  Power Engineering 2  6
ECTE250  Engineering Design and Management 2  6
ECTE333  Digital Hardware 2  6
ECTE344  Control Theory  6
ENGG291  Engineering Fundamentals  6

Stage 5
ECTE301  Digital Signal Processing 1  6
ECTE350  Engineering Design and Management 3  6
ECTE363  Communication Theory  6

Plus Electrical Option
Stage 6
ECTE313  Electronics  6

Plus 8 Final Year Specialisation Subjects
Stage 7
ECTE457  Thesis  18

Bachelor of Engineering (Internet Engineering)

This degree will be offered in 2002, subject to final approval by Council.

The School of Electrical, Computer and Telecommunications Engineering offers a course leading to a Bachelor of Engineering (Internet Engineering) which may be completed in a minimum of four years of full-time study. Subjects are scheduled so that it may also be undertaken on a part-time basis, in which case the duration will depend upon the particular circumstances of the student. Progression is by subject but the various subject pre- and co-requisites must be satisfied. The Degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year. The classes of honours awarded are defined in the Course Rules.

There is a recommended program for a full-time four year minimum course and a preferred part time program for students in approved, full-time professional employment. For holders of TAFE Certificates and Associate Diplomas, programs will be determined on an individual basis but exemptions of up to 48 credit points may apply.

All BE students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student’s enrolment at the University. It is a requirement of the degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

Recommended Full-Time Program

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year of the full-time program before beginning the recommended third year of the full-time program and to complete satisfactorily the recommended second year of the full-time program before beginning the recommended fourth year of the full-time program. With the approval of the Head of School, these requirements may be waived.

Year 1
CSCI111  Computer Science 1A  6
CSCI121  Computer Science 1B  6
ECTE101  Electrical Engineering 1  6
ECTE150  Engineering Design and Management 1  6
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE191</td>
<td>WWW Engineering</td>
<td>6</td>
</tr>
<tr>
<td>ECTE196</td>
<td>Internet Technology 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
</tbody>
</table>

Note:
- MATH187 may be replaced by MATH141/143/161
- MATH188 may be replaced by MATH142/144/162

**Year 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE202</td>
<td>Circuits and Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE212</td>
<td>Electronics and Communications</td>
<td>6</td>
</tr>
<tr>
<td>ECTE222</td>
<td>Power Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE250</td>
<td>Engineering Design and Management 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE291</td>
<td>Internet Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE292</td>
<td>Internet Technology 2</td>
<td>6</td>
</tr>
<tr>
<td>MATH283</td>
<td>Mathematics 2E for Engineers, Part 1</td>
<td>6</td>
</tr>
</tbody>
</table>

**Year 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE281</td>
<td>Embedded Internet Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE333</td>
<td>Digital Hardware 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
<td>6</td>
</tr>
<tr>
<td>ECTE363</td>
<td>Communication Theory</td>
<td>6</td>
</tr>
<tr>
<td>ECTE364</td>
<td>Telecommunication Networks 1</td>
<td>6</td>
</tr>
</tbody>
</table>

**Year 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE457</td>
<td>Thesis</td>
<td>18</td>
</tr>
<tr>
<td>ECTE481</td>
<td>Internet Protocols</td>
<td>3</td>
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<tr>
<td>ECTE482</td>
<td>Internet Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Eight final year specialisation subjects</td>
<td>12</td>
</tr>
</tbody>
</table>

**Internet Options**

With the approval of the Head of School, students may select two six credit point, 300-level subjects offered by:

(a) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or

(b) the School of Mathematics and Applied Statistics (MATH or STAT); or

(c) the School of Electrical, Computer and Telecommunications Engineering (ECTE).

Note that this selection may be constrained by pre- and co-requisites and timetabling.

**Final Year Specialisation Subjects**

These will be selected from the following list of subjects. Unless class numbers warrant, only ten subjects will be offered in any year.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE431</td>
<td>Real-time Computing</td>
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</tr>
<tr>
<td>ECTE432</td>
<td>Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECTE441</td>
<td>Intelligent Control</td>
<td>3</td>
</tr>
<tr>
<td>ECTE461</td>
<td>Telecommunications Queuing Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECTE462</td>
<td>Telecommunications System Modelling</td>
<td>3</td>
</tr>
<tr>
<td>ECTE465</td>
<td>Wireless Communications</td>
<td>3</td>
</tr>
<tr>
<td>ECTE466</td>
<td>Spread Spectrum Communications</td>
<td>3</td>
</tr>
<tr>
<td>ECTE467</td>
<td>Mobile Networks</td>
<td>3</td>
</tr>
<tr>
<td>ECTE468</td>
<td>Error Control Coding</td>
<td>3</td>
</tr>
<tr>
<td>ECTE484</td>
<td>Network Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECTE486</td>
<td>Telecommunications Network Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Professional Experience**

Full-time BE students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between third and fourth years.
Bachelor of Engineering (Telecommunications Engineering)

The School of Electrical, Computer and Telecommunication Engineering offers a course leading to a Bachelor of Engineering (Telecommunications Engineering) which may be completed in a minimum of four years of full-time study. Subjects are scheduled so that it may also be undertaken on a part-time basis, in which case the duration will depend upon the particular circumstances of the student. Progression is by subject but the various subject pre- and co-requisites must be satisfied.

The Degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year. The classes of honours awarded are defined in the Course Rules.

There is a recommended program for a full-time four year minimum course and a preferred part-time program for students in approved, full-time professional employment. For holders of TAFE Certificates and Associate Diplomas, programs will be determined on an individual basis but exemptions of up to 48 credit points may apply.

All BE students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

Recommended Full-Time Program

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily: the recommended first year of the full-time program before beginning the recommended third year of the full-time program and to complete satisfactorily the recommended second year of the full-time program before beginning the recommended fourth year of the full-time program. With the approval of the Head of School, these requirements may be waived.

**Year 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

**Note:**

MATH187 may be replaced by MATH141/143/161
MATH188 may be replaced by MATH142/144/162

**Year 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td>Java Programming and the Internet</td>
<td>6</td>
</tr>
<tr>
<td>ECTE202</td>
<td>Circuits and Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE212</td>
<td>Electronics and Communications</td>
<td>6</td>
</tr>
<tr>
<td>ECTE222</td>
<td>Power Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE250</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>ENGG291</td>
<td>Engineering Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td>MATH283</td>
<td>Mathematics 2E for Engineers, Part 1</td>
<td>6</td>
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</tbody>
</table>

**Year 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
</tr>
<tr>
<td>ECTE333</td>
<td>Digital Hardware 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE344</td>
<td>Control Theory</td>
<td>6</td>
</tr>
<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE363</td>
<td>Communication Theory</td>
<td>6</td>
</tr>
<tr>
<td>ECTE364</td>
<td>Telecommunication Networks 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus Telecommunications Option
Year 4
ECTE457 Thesis 18
ECTE461 Telecommunications Queuing Theory 3
ECTE462 Telecommunications System Modelling 3

Plus 6 Final Year Specialisation Subjects
Plus Telecommunications Option

Final Year Specialisations Subjects
These will be selected from the following list of subjects. Unless class numbers warrant, only eight subjects will be offered in any year.

Note: A pre-requisite of 'all Year 2 subjects or equivalent' applies to EACH Final Year Specialisation Subject in addition to any other pre- or co-requisite given.

ECTE401 Fast Signal Processing Algorithms 3
ECTE402 Stochastic Signal Processing 3
ECTE403 Image and Video Processing 3
ECTE404 Adaptive Signal Processing 3
ECTE405 Speech and Audio Processing 3
ECTE412 DC-Sourced Power Electronics 3
ECTE413 Micro-Electronics 3
ECTE431 Real-time Computing 3
ECTE432 Computer Systems 3
ECTE441 Intelligent Control 3
ECTE463 Transmission Systems 3
ECTE464 Antennas and Propagation 3
ECTE465 Wireless Communications 3
ECTE466 Spread Spectrum Communications 3
ECTE467 Mobile Networks 3
ECTE468 Error Control Coding 3
ECTE481 Internet Protocols 3
ECTE482 Internet Engineering 3
ECTE484 Network Design and Analysis 3
ECTE486 Telecommunications Network Management 3

Telecommunications Options
Year 3 /Stage 5/ Year 4/ Stage 6: With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:

(i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
(ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

Professional Experience
Full-time BE students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between third and fourth years.

Recommended Part-Time Program for Students in Full-Time, Approved Professional Employment
Students are required to complete satisfactorily the recommended first two stages of the part-time program before beginning the recommended fourth stage of the part-time program and to complete satisfactorily the recommended third stage of the part-time program before beginning the recommended sixth stage of the part-time program. With the approval of the Head of School, these requirements may be waived.
# Course Structures

## Stage 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
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<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

**Note:**
- MATH187 may be replaced by MATH141/143/161
- MATH188 may be replaced by MATH142/144/162

## Stage 2

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CSCI111</td>
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</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
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</tr>
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</table>

## Stage 3

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>CSCI213</td>
<td>Java Programming and the Internet</td>
<td>6</td>
</tr>
</tbody>
</table>

**Plus**
- ECTE202  | Circuits and Systems                                          | 6       |
- ECTE212  | Electronics and Communications                                | 6       |
- ECTE222  | Power Engineering 1                                           | 6       |
- MATH283  | Mathematics 2E for Engineers, Part 1                         | 6       |

## Stage 4

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ECTE250</td>
<td>Engineering Design and Management 2</td>
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<td>ECTE333</td>
<td>Digital Hardware 2</td>
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<tr>
<td>ECTE344</td>
<td>Control Theory</td>
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<tr>
<td>ENGG291</td>
<td>Engineering Fundamentals</td>
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</table>

**Plus**
- Telecommunications Option

## Stage 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
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</tr>
<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
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</tr>
<tr>
<td>ECTE363</td>
<td>Communication Theory</td>
<td>6</td>
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<tr>
<td>ECTE384</td>
<td>Telecommunication Networks 1</td>
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## Stage 6

<table>
<thead>
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<th>Course Title</th>
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<tr>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
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<tr>
<td>ECTE461</td>
<td>Telecommunications Queuing Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECTE462</td>
<td>Telecommunications System Modelling</td>
<td>3</td>
</tr>
</tbody>
</table>

**Plus**
- 4 Final Year Specialisation Subjects

**Plus**
- Telecommunications Option

## Stage 7

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE457</td>
<td>Thesis</td>
<td>18</td>
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</tbody>
</table>

**Plus**
- 2 Final Year Specialisation Subjects

424
Bachelor of Information and Communication Technology

These requirements apply to all candidates who have registered for the degree in 1999 and in later years until further notice. New candidates with UAC code 754112 offers may register for Software Engineering UAC code 754115 and offers for Network Management or with UAC code 754113 Telecommunications or with UAC code 754111 Business Information Systems.

Course Requirements

Set out below are the requirements that a candidate must satisfactorily complete to be eligible for the award of the degree of Bachelor of Information and Communication Technology.

1. Candidates must satisfactorily complete at least 192 credit points of subjects prescribed in one of the major studies listed below. The programs listed below are guidelines as to how best to proceed through the course. Candidates may enrol as they see fit, but must satisfactorily complete all prescribed compulsory subjects, and the credit points prescribed for electives, and satisfy all other requirements listed below to be eligible for the award.

2. No more than 60 credit points shall be for 100-level subjects.

3. At least 36 credit points shall be for 300-level subjects.

4. At least 42 credit points shall be for 400-level IACT subjects.

5. To be eligible for the award of honours, candidates must satisfactorily complete IACT441 and IACT450 within the 42 credit points prescribed in requirement 4.

General Subject Pre-requisite Requirements

6. Subject to any other individual subject pre- and co-requisites, entry into 400-level IACT subjects will be permitted upon satisfactory completion of 120 credit points of subjects approved in this program.

7. Entry to IACT441 will be based on:
   a) overall academic performance,
   b) a weighted average mark (WAM) of at least 67.5, and
   c) approval from the Head of School.

   Candidates should refer to the Course Rules for calculations of WAMs.

d) students intending to do Honours should apply and be accepted by the end of December of the previous year. (See Sonia Jennings for application form)

Sequence of Subjects

For subjects chosen from the 'additional subjects list', it is recommended students examine sequences suggested in the handouts produced by the School. Check subject information to ensure that pre- and co-requisites are met.

Professional Experience

BInfoTech students must satisfactorily complete two 10 week periods of approved professional experience, assessed in the form of written reports. These are normally undertaken in the summer sessions at the end of second and third year. In exceptional circumstances where a student has proven substantive work experience in relevant industry they may apply to be exempted from Professional Experience placement, but, if approved, will be required to undertake an alternative task(s) as specified by the Head of School.

Major Study Areas

The major study that a student may enrol in depends on the UAC code they were offered a place in:
Software Engineering UAC code: 754115
Network Management UAC code: 754112
Telecommunications UAC code: 754113
Business Information Systems UAC code: 754111

Approved Major Studies and combined major studies in the BInfoTech:
ITE Software Engineering
ITB Network Management
ITC Telecommunications
ITD Business Information Systems
ITED Software Engineering / Network Management
ITED Software Engineering / Business Information Systems
ITBD Network Management / Business Information Systems
Course Structures

ITEE Software Engineering / Marketing
ITBE Network Management / Marketing
ITCE Telecommunications / Marketing
ITDE Business Information Systems / Marketing
ITEF Software Engineering / Data Analysis
ITBF Network Management / Data Analysis
ITCF Telecommunications / Data Analysis
ITDF Business Information Systems / Data Analysis
ITEG Software Engineering / Modelling
ITBG Network Management / Modelling
ITCG Telecommunications / Modelling
ITDG Business Information Systems / Modelling
ITEH Software Engineering / Electronic Commerce
ITBH Network Management / Electronic Commerce
ITCH Telecommunications / Electronic Commerce
ITDH Business Information Systems / Electronic Commerce

BInfoTech - Software Engineering

(only available to candidates with UAC code 754115 offer)

Year 1
CSCI111 Computer Science IA 6
CSCI121 Computer Science IB 6
MATH122 Probability and Logic 6
CSCI101 Introduction to Information Technology A 6
CSCI102 Introduction to Information Technology B 6
ECTE196 Internet Technology I 6

Plus 12 credit points at 100-level from the additional subjects list or second major study subjects.

Year 2
CSCI204 Programming: The C Family and Unix 6
CSCI205 Development Methods and Tools 6
CSCI235 Databases 6
CSCI213 JAVA Programming and the Internet 6
IACT201 Information Technology and Citizens' Rights 6
IACT202 The Structure and organisation of Telecommunications 6

Plus 12 credit points from the additional subjects list at 200-level, or second major study subjects.

Year 3
CSCI311 Software Process Management 6
CSCI321 Project 12
CSCI325 Software Engineering Formal Methods 6
IACT301 Information and Communication Security Issues 6
IACT302 Corporate Network Planning 6

Plus 12 credit points from the additional subjects list at 200-level or 300-level, or second major study subjects.

Year 4 (Non-Honours)

At least 42 credit points of IACT400 level subjects which must include two subjects chosen from CSCI425, CSCI450 or IACT402.

If only 42 credit points of IACT400 level subjects are taken, then the extra 6 credit points must be taken from the list of additional subjects in accordance with course requirements.

Year 4 Honours

To be eligible for honours, candidates must satisfactorily complete IACT450 and IACT441 and at least 18 credit points of IACT400 level subjects which must include two subjects chosen from CSCI425, CSCI450 or IACT402. If only 42 credit points of IACT400 level subjects are taken, then the extra 6 credit points must be taken from the list of additional subjects in accordance with course requirements.

Entry to IACT441 will be based on overall academic performance, a written proposal, a weighted average mark (WAM) of at least 67.5 and approval from the Head of School. A grade of 75% or better in IACT441 is required for entry to IACT450. Students should refer to the University Course Rules for calculations of WAMs.
## BlInfoTech - Network Management

(only available to candidates with UAC code 754112 offer)

### Year 1
- **CSCI111** Computer Science IA 6
- **CSCI121** Computer Science IB 6
- **MATH122** Probability and Logic 6
- **CSCI101** Introduction to Information Technology A 6
- **CSCI102** Introduction to Information Technology B 6

Plus 18 credit points at 100-level from the additional subjects list, or second major study subjects.

### Year 2
- **CSCI204** Programming: The C Family and Unix 6
- **CSCI212** Operating Systems 6
- **CSCI213** JAVA Programming and the Internet 6
- **CSCI214** Distributed Systems 6
- **IACT201** Information Technology and Citizens' Rights 6
- **IACT202** The Structure and organisation of Telecommunications 6

Plus 12 credit points from the additional subjects list at 200-level, or second major study subjects.

### Year 3
- **CSCI316** Network Computing 6
- **CSCI321** Project 12
- **CSCI322** Systems Administration 6
- **IACT301** Information and Communication Security Issues 6
- **IACT302** Corporate Network Planning 6

Plus 12 credit points from the additional subjects list at 200-level or 300-level, or second major study subjects.

### Year 4 (Non-Honours)
At least 42 credit points of IACT400 level subjects.

If only 42 credit points of IACT400 level subjects are taken, then the extra 6 credit points must be taken from the list of additional subjects in accordance with course requirements.

### Year 4 (Honours)
To be eligible for honours, candidates must satisfactorily complete IACT450 and IACT441 and at least 18 credit points of IACT400 level subjects. If only 42 credit points of IACT400 level subjects are taken, then the extra 6 credit points must be taken from the list of additional subjects in accordance with course requirements.

Entry to IACT441 will be based on overall academic performance, a written proposal, a weighted average mark (WAM) of at least 67.5 and approval from the Head of School. A grade of 75% or better in IACT441 is required for entry to IACT450.

Students should refer to the University Course Rules for calculations of WAMs.

## BlInfoTech - Telecommunication

(only available to candidates with UAC code 754113 offer)

### Year 1
- **CSCI111** Computer Science 1A 6
- **ECTE101** Electrical Engineering 1 6
- **CSCI101** Introduction to Information Technology A 6
- **CSCI102** Introduction to Information Technology B 6
- **STAT131** Understanding Variation and Uncertainty 6
- **PHYS142** Fundamentals of Physics B 6

And either
- **MATH187** Mathematics 1A - Part 1 6
- **MATH188** Mathematics 1A - Part 2 6

or
- **MATH143** Mathematics 1D - Part 1 6
- **MATH144** Mathematics 1D - Part 2 6
Course Structures

or
MATH141 Mathematics 1C - Part 1  6
and
MATH142 Mathematics 1C - Part 2  6

Year 2
CSCI131 Introduction to Computer Systems  6
ECTE233 Digital Hardware 1  6
IACT201 Information Technology and Citizens' Rights  6
IACT202 The Structure and organisation of Telecommunications  6
ECTE333 Digital Hardware 2  6

Plus 6 cp at 100 level subjects and at least 12 credit points from the additional subjects list at 200-level or second major study subjects.

Year 3
ECTE363 Communication Theory  6
IACT302 Corporate Network Planning  6
ECTE364 Telecommunication Networks  6
IACT301 Information and Communication Security Issues  6

Plus at least 24 credit points from the additional subjects list of which at least 12 credit points must be at 300-level, or second major study subjects

Year 4 (Non-Honours)
At least 42 credit points of IACT400 level subjects.

If only 42 credit points of IACT400 level subjects are taken, then the extra 6 credit points must be taken from the list of additional subjects in accordance with course requirements.

Year 4 (Honours)
To be eligible for honours, candidates must satisfactorily complete IACT450 and IACT441 and at least 18 credit points of IACT400 level subjects. If only 42 credit points of IACT400 level subjects are taken, then the extra 6 credit points must be taken from the list of additional subjects in accordance with course requirements.

Entry to IACT441 will be based on overall academic performance, a written proposal, a weighted average mark (WAM) of at least 67.5 and approval from the Head of School. A grade of 75% or better in IACT441 is required for entry to IACT450. Students should refer to the University Course Rules for calculations of WAMs.

BInfoTech - Business Information Systems

(only available to candidates with UAC code 754111 offer)

Year 1
BUSS111 Business Programming I  6
CSCI101 Introduction to Information Technology A  6
CSCI102 Introduction to Information Technology B  6
STAT131 Understanding Variation and Uncertainty  6

Plus 24 credit points at 100-level from the Additional Subjects List or second major study subjects

NB CSCI101 is not required for students holding NSW HSC 3 unit Computing Studies or 2 unit Computing Studies (60/100 or better) or equivalent. In this case you must replace it with another 6cp subject from the additional subject list.

Year 2
BUSS211 Systems Analysis and Design  6
BUSS212 Database Management Systems  6
BUSS214 Business Programming II  6
IACT201 Information Technology and Citizens' Rights  6
IACT202 The Structure and organisation of Telecommunications  6

Plus at least 18 credit points from the Additional Subjects List of which at least 12 credit points must be at 200-level or second major study subjects

Year 3
BUSS311 Advanced Database Management Systems  6
BUSS312 Distributed Information Systems  6
BUSS316 Information Systems Development Methodologies  6
BUSS317 Business Programming IV  6
Faculty of Informatics

IACT301 Information and Communication Security Issues 6
IACT302 Corporate Network Planning 6

Plus at least 12 credit points of either 200- or 300-level subjects from the Additional Subjects List or second major study subjects

Year 4 (Non-Honours)
At least 42 credit points of IACT400 level subjects.
If only 42 credit points of IACT400 level subjects are taken, then the extra 6 credit points must be taken from the list of additional subjects in accordance with course requirements.

Year 4 (Honours)
To be eligible for honours candidates must satisfactorily complete IACT450 and IACT441 and at least 18 credit points of IACT 400 level subjects. If only 42 credit points of IACT400 level subjects are taken, then the extra 6 credit points must be taken from the list of additional subjects in accordance with course requirements.

Entry to IACT441 will be based on overall academic performance, a written proposal, a weighted average mark (WAM) of at least 67.5 and approval from the Head of School. A grade of 75% or better in IACT441 is required for entry to IACT450. Students should refer to the University Course Rules for calculations of WAMs.

Marketing Combined Major Study (ITEE, ITBE, ITCE OR ITDE)
In order to take a Combined Major study with Marketing, students must complete the subjects in Program E, B, C or D plus the following subjects:

Compulsory Subjects
MARK101 Introduction to Marketing 6
MARK217 Consumer Behaviour 6
MARK239 Information for Marketing Decisions 6
MARK319 Applied Marketing Research 6
MARK333 Advertising and Promotion Strategy 6
MARK344 Marketing Strategy 6

Plus two subjects (12 credit points) from the following:
MARK240 Marketing and Consumer Behaviour in East and South-East Asia 6
MARK270 Services Marketing 6
MARK301 Marketing on the Internet 6
MARK317 Business to Business Marketing 6
MARK343 International Marketing 6
MARK356 New Product Marketing 6
MARK359 Sales Management 6
MARK395 Tourism Marketing 6
MARK397 Retail Marketing Management 6

Data Analysis Combined Major study (ITEF, ITBF, ITCF OR ITDF)
In order to take a Combined Major study with Data Analysis, students must complete the subjects in Program E, B, C or D plus the following subjects:

Year 1
MATH187 Mathematics 1A Part 1 6
MATH188 Mathematics 1A Part 2 6
STAT131 Understanding Variation and Uncertainty 6

Year 2
STAT231 Probability and Random Variables 6
STAT232 Estimation and Hypothesis Testing 6
MATH203 Linear Algebra 6

Year 3
STAT332 Multiple Regression and Time Series 6
STAT335 Sample Surveys and Experimental Design 6
STAT304 Operations Research and Applied Probability 6

and either MATH203 or MATH262
## Modelling Combined Major study (ITEG, ITBG, ITCG OR ITDG)

In order to take a Combined Major study with Modelling, students must complete the subjects in Program E, B, C or D plus the following subjects:

### Year 1
- MATH187 Mathematics 1A Part 1
- MATH188 Mathematics 1A Part 2
- STAT131 Understanding Variation and Uncertainty

### Year 2
- MATH201 Multivariate and Vector Calculus
- MATH202 Differential Equations 2
- MATH212 Applied Mathematical Modelling 2

### Year 3
- MATH302 Differential Equations 3
- MATH312 Applied Mathematical Modelling
- MATH313 Industrial Mathematical Modelling

## Electronic Commerce Combined Major study (ITEH, ITBH,ITCH OR ITDH)

In order to take a Combined Major study with Electronic Commerce, students must complete the subjects in Program E, B, C or D together with the following:

1. IACT303;
2. 18 credit points of 200 level Electronic Commerce subjects;
3. 18 credit points of 300 level Electronic Commerce subjects; and
4. 6 credit points of 400 level Electronic Commerce subjects.

### Electronic Commerce (EC) Subjects

- ACCY231 Information Systems in Accounting
- ACCY332 Advanced Information Systems in Accounting
- ACCY335 Systems Analysis and Design in Accounting and Finance
- ACCY335 Global Electronic Finance
- BUSS211 Systems Analysis and Design
- BUSS212 Database Management Systems
- BUSS311 Advanced Database Management Systems
- BUSS312 Distributed Information Systems
- COMM300 Innovation and Electronic Commerce
- ECON230 Quantitative Analysis for Decision Making II
- ECON312 Industrial Economics
- ECON319 Electronic Commerce and the Economics of Information
- IACT201 Information Technology and Citizens' Rights
- IACT406 Business On-line
- IACT417 Information Management
- IACT419 Online Information Services
- MGMT200 Management and Electronic Business
- MARK301 Marketing on the Internet
- LAW210 Contract Law
- LAW331 Intellectual Property Law
- CSCI213 Java Programming and the Internet
- CSCI214 Distributed Systems
- CSCI236 3D Modelling and Animation
- CSCI311 Software Process Management
- CSCI361 Computer Security
### Additional Subjects List for BizInfoTech (all majors)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACCY100</td>
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<tr>
<td>ACCY102</td>
<td>Accounting I B</td>
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<tr>
<td>ACCY231</td>
<td>Information Systems in Accounting</td>
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<tr>
<td>ACCY380</td>
<td>Accounting for Information Technology</td>
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</tr>
<tr>
<td>BUSS102</td>
<td>Computer Systems</td>
<td>6</td>
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<tr>
<td>BUSS111</td>
<td>Business Programming I (not to count with CSCI111)</td>
<td>6</td>
</tr>
<tr>
<td>BUSS201</td>
<td>User-Centered Business Programming</td>
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<tr>
<td>BUSS208</td>
<td>Computer Systems Management</td>
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<tr>
<td>BUSS211</td>
<td>Systems Analysis and Design</td>
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</tr>
<tr>
<td>BUSS212</td>
<td>Database Management Systems</td>
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<tr>
<td>BUSS213</td>
<td>Multimedia in organisations</td>
<td>6</td>
</tr>
<tr>
<td>BUSS214</td>
<td>Business Programming II</td>
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<td>BUSS215</td>
<td>Business Programming III</td>
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<td>Advanced Database Management Systems</td>
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<td>BUSS312</td>
<td>Distributed Information Systems</td>
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<tr>
<td>BUSS315</td>
<td>Knowledge-Based Information Systems</td>
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<tr>
<td>BUSS316</td>
<td>Information Systems Development Methodologies</td>
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<td>BUSS317</td>
<td>Business Programming IV</td>
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<tr>
<td>BUSS318</td>
<td>Information Systems Project</td>
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<tr>
<td>CCS105</td>
<td>Introduction to Communications and Cultural Studies</td>
<td>6</td>
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<tr>
<td>CCS109</td>
<td>Communication, Media and Society</td>
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<tr>
<td>COMM300</td>
<td>Innovation and Electronic Commerce</td>
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<tr>
<td>CSCI111</td>
<td>Computer Science IA (not to count with BUSS111)</td>
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<td>CSCI112</td>
<td>Fundamentals of Computer Science</td>
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<tr>
<td>CSCI121</td>
<td>Computer Science IB</td>
<td>6</td>
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<tr>
<td>CSCI131</td>
<td>Introduction to Computer Systems</td>
<td>6</td>
</tr>
<tr>
<td>CSCI203</td>
<td>Data structures, Algorithms, System</td>
<td>6</td>
</tr>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>CSCI205</td>
<td>Development Methods and Tools</td>
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<tr>
<td>CSCI212</td>
<td>Operating Systems</td>
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<td>CSCI213</td>
<td>Java Programming and The Internet</td>
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<tr>
<td>CSCI235</td>
<td>Databases</td>
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<tr>
<td>CSCI236</td>
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<tr>
<td>CSCI311</td>
<td>Software Process Management</td>
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<tr>
<td>CSCI313</td>
<td>Professional Programming Practices</td>
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<tr>
<td>CSCI315</td>
<td>Database design and Implementation</td>
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<tr>
<td>CSCI316</td>
<td>Network Computing</td>
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<tr>
<td>CSCI321</td>
<td>Software Project</td>
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<tr>
<td>CSCI322</td>
<td>Systems Administration</td>
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<tr>
<td>CSCI325</td>
<td>Software Engineering Formal Methods</td>
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</tr>
<tr>
<td>CSCI333</td>
<td>Compilers</td>
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<td>CSCI334</td>
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<td>Computer Graphics</td>
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<td>CSCI337</td>
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<td>CSCI361</td>
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<td>CSCI399</td>
<td>Server Technology</td>
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<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
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<td>Microeconomic Theory and Policy</td>
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<td>Electronic Commerce and the Economics of Information</td>
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<td>EDUE313</td>
<td>Interactive Multimedia by Design</td>
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<td>EDUE314</td>
<td>Interactivity and The Web</td>
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<td>Managing Multimedia Resources</td>
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<td>ECTE333</td>
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<td>Telecommunications Networks I</td>
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<td>Introduction to English for Academic Purposes: Second Language Perspective</td>
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<td>MATH201</td>
<td>Multivariate and Vector Calculus</td>
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<td>Linear Algebra</td>
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<td>Applied Mathematical Modelling II</td>
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<td>Differential Equations III</td>
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<td>MGMT110</td>
<td>Introduction to Management</td>
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<td>Management and Electronic Business</td>
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<td>MGMT202</td>
<td>Management of Change</td>
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<td>MGMT203</td>
<td>Decision Making in organisations</td>
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<td>MGMT220</td>
<td>organisational Analysis</td>
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<td>MGMT314</td>
<td>Business Policy</td>
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<td>Management of Occupational Health and Safety</td>
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<td>MGMT351</td>
<td>Business Ethics</td>
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<td>MGMT398</td>
<td>Human Resource Management</td>
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<td>MARK101</td>
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<td>MARK217</td>
<td>Consumer Behaviour</td>
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<td>MARK270</td>
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<td>MARK301</td>
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<td>Marketing Strategy</td>
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<td>MARK356</td>
<td>New Product Marketing</td>
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<td>MARK359</td>
<td>Sales Management</td>
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<td>MARK397</td>
<td>Retail Marketing Management</td>
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<td>POL111</td>
<td>Introduction to Politics</td>
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<td>POL224</td>
<td>Politics and the Media</td>
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<tr>
<td>POL225</td>
<td>International Relations: An Introduction</td>
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<td>SOC241</td>
<td>Culture and Communication</td>
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<tr>
<td>STAT131</td>
<td>Understanding Variation and Uncertainty</td>
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<td>STAT231</td>
<td>Probability and Random Variables</td>
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<td>STAT232</td>
<td>Estimation and Hypothesis Testing</td>
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<tr>
<td>STAT332</td>
<td>Multiple Regression And Time Series</td>
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</tbody>
</table>
Faculty of Informatics

STAT304  Operations Research and Applied Probability 6
STS100  Social Aspects of Science and Technology 6
STS116  Environment in Crisis: Technology and Society 6
STS221  Technology in Society: East and West 6
STS228  Computers in Society II 8
STS241  Information and Communication Theory 6
STS266  Technology and Consumer Culture 6
STS333  Communications and the Information Society 6

or any subject approved by the Head of School

IACT 400 level Subjects

(pre-requisites for all 400-level subjects is a minimum of 24 credit points at 300-level)

IACT401  IT Strategic Planning 6
IACT402  Applied Project Management 6
IACT403  Human Computer Interface 6
IACT404  International Telecommunications Policy Issues 6
IACT405  Information Technology and Innovation 6
IACT406  Business On-Line 6
IACT416  organisational Issues in Information Technology 6
IACT417  Information Management 6
IACT418  Corporate Network Management 6
IACT419  On-Line Information Services 6
IACT422  Case Studies in Information Technology Applications 6
IACT424  Corporate Network Design and Implementation 6
IACT426  Information Society, Knowledge Work and Information Technology 6
IACT430  Special Topics in Information and Communication Technology 6
IACT431  Special Topics in Information and Communication Technology - A 6
IACT432  Special Topics in Information and Communication Technology - B 6
IACT433  Special Topics in Telecommunications Issues 6
IACT441  IT Research Methodology 6
IACT450  Research Report 18
CSCI425  Topics in Software Engineering 6
CSCI444  Perception and Planning 6
CSCI445  Parallel Architectures and Algorithms 6
CSCI446  Multi-media Studies 6
CSCI450  Software Engineering Requirements and Specifications 6
CSCI457  Advanced Topics in Database Management 6
CSCI463  Advanced Computer Graphics 6
CSCI464  Neural Computing 6
CSCI465  Design and Analysis of Algorithms 6
CSCI466  Coding for Secure Communication 6
CSCI467  Complexity Theory 6
CSCI468  Network Security 6
CSCI471  Advanced Computer Security 6
INFO411  Data Mining & Knowledge Discovery 6
INFO412  Mathematics for Cryptography 6
INFO413  Information Theory 6
ITCS432  Web Design 6
ITCS436  Enterprise Web Applications 6
ITCS438  E-Commerce Technology Essentials 6
ITCS437  Security, Risk Management and Control in Electronic Commerce 6

Note: Not all subjects available every year.
Course Structures

Bachelor of Information Technology

This three-year full-time (or part-time equivalent) degree is designed for offshore students. Entry into Year 2 or 3 (on-shore Wollongong Campus), is conditional on successful completion of a recognised off-shore program, or at least 48 credit points of appropriate advanced standing being approved from another institution.

The degree has two major studies: Information Systems and Computing.

Students may complete either one or two years on campus at Wollongong, depending on the program completed off-shore.

Course requirements

To qualify for the award of the degree of Bachelor of Information Technology, candidates must satisfactorily complete at least 144 credit points as set out in the Bachelor of Information Technology Schedule.

The 144 credit points must include:

1. the subjects CSCI101, CSCI102, CSCI111, CSCI112, and MATH122;
2. at least 36 credit points of 300 level subject listed in the Bachelor of Information Technology Schedule of which 24 credit points must be at the pass grade or better;
3. at least 126 credit points from Bachelor of Information Technology Schedule;
4. no more than 24 credit points (ie1/6) of subjects to be at PC grade; and
5. no more than 60 credit points at 100-level.

Course Structure

Year 1 (offshore only) both Majors -
CSCI101 Introduction to Information Technology A 6
CSCI102 Introduction to Information Technology B 6
MATH122 Probability and Logic 6
CSCI111 Computer Science 1A 6
CSCI121 Computer Science 1B 6
Plus 18 credit points at 100-level from subjects in the BIT electives Schedule or the UOW General Schedule.

Year 2 (on shore or offshore) Computing Major study
CSCI204 Programming: The C Family and Unix 6
IACT201 Information Technology and Citizens Rights 6
CSCI212 Operating Systems 6
CSCI213 Java Programming and the Internet 6
CSCI205 Development Methods and Tools 6
CSCI235 Databases 6
IACT202 The Structure and organisation of Telecommunications 6
Plus 6 credit points at 100- or 200-level from subjects in the BIT Elective Schedule.

Year 3 (on shore or offshore) Computing Major study
CSCI321 Project 12
CSCI311 Software Process Management 6
IACT302 Corporate Network Planning 6
CSCI315 Database Design and Implementation 6
IACT301 Information and Communication Security Issues 6
Plus 12 credit points at 200- or 300-level from subjects in the BIT Elective Schedule.

Year 2 (on shore or offshore) Information Systems Major study
BUSS201 User-Centred Business Programming 6
BUSS211 Systems Analysis and Design 6
BUSS214 Business Programming II 6
IACT201 Information Technology and Citizens' Rights 6
BUSS212 Database Management Systems 6
BUSS213 Multimedia in organisations 6
or
BUSS311 Advanced Database Management 6
BUSS312 Distributed Information Systems 6
BUSS315 Knowledge-Based Information Systems 6
IACT302 Corporate Network Planning 6
BUSS316 Information Systems Development Technologies 6
Bachelor of Internet Science and Technology

The Bachelor of Internet Science and Technology (Blntemet) course has four major study areas:

A Internet Technology
B Internet Applications
C Internet Commerce
D Internet Science

Course Requirements

To be eligible for the award of the degree of Bachelor of Internet Science and Technology, candidates must:

a) satisfactorily complete at least 144 credit points of subjects prescribed in one of the majors listed below
b) undertake no more than 60 credit points at 100-level
c) undertake at least 36 credit points at 300-level
## Course Structures

### Sequence of Subjects

The programs listed below are guidelines as to how best to proceed through the course. Subjects can be undertaken in a different order, however all subjects must be successfully completed to be awarded the degree.

Each strand has some additional compulsory subjects as well as electives. The following subject is highly recommended for those students who satisfy the prerequisite (completion of second year of BIST with WAM > 70).

INFO303 Advanced Project

### Internet Technology

#### Year 1

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>CSCI101</td>
<td>Introduction to Information Technology A</td>
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<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
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<tr>
<td>CSCI102</td>
<td>Introduction to Information Technology B</td>
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<tr>
<td>CSCI121</td>
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<tr>
<td>ECTE195</td>
<td>Design and Management</td>
<td>6</td>
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<tr>
<td>ECTE196</td>
<td>Internet Technology 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Students must choose one of the following subjects:

- MATH122 Probability and Logic
- STAT131 Understanding Variation and Uncertainty

One of the following subjects is recommended, but may be replaced by another approved BIST subject listed below:

- MATH141 Maths 1C Part 1
- MATH142 Maths 1C Part 2
- MATH187 Maths 1A Part 1

#### Elective subjects

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Credit Points</th>
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<td>ACCY100</td>
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<tr>
<td>ACCY102</td>
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<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
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<td>ECON111</td>
<td>Introductory Micro Economics</td>
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<td>LAW100</td>
<td>Law in Society</td>
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<td>MARK101</td>
<td>Introduction to Marketing</td>
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<td>MGMT110</td>
<td>Introduction to Management</td>
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<td>CSCI131</td>
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#### Year 2

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<td>CSCI213</td>
<td>Java Programming and the Internet</td>
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<tr>
<td>CSCI214</td>
<td>Distributed Systems</td>
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<tr>
<td>ECTE233</td>
<td>Digital Hardware I</td>
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<td>ECTE291</td>
<td>Internet Systems</td>
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<td>ECTE292</td>
<td>Internet Technology 2</td>
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<tr>
<td>INFO202</td>
<td>Project</td>
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</table>

In addition two electives (12 credit points), chosen from:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: the C Family and Unix</td>
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<tr>
<td>CSCI235</td>
<td>Databases</td>
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<td>DES211</td>
<td>Introduction to Web Design</td>
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<td>DES212</td>
<td>Advanced Web Design</td>
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<td>ECTE281</td>
<td>Embedded Internet Systems</td>
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<td>IACT201</td>
<td>Information Technology and Citizens' Rights</td>
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<tr>
<td>IACT202</td>
<td>The Structure and organisation of Telecommunications</td>
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<td>MATH141</td>
<td>Mathematics 1C, Part 1</td>
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<td>MATH161</td>
<td>Mathematics 1E, Part 1</td>
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#### Year 3

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<td>ECTE333</td>
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<tr>
<td>ECTE364</td>
<td>Telecommunication Networks 1</td>
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<tr>
<td>ECTE392</td>
<td>Wireless Internet</td>
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<tr>
<td>IACT303</td>
<td>Worldwide Networking</td>
<td>6</td>
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</tbody>
</table>
Students must choose one of the following two subjects:

- CSCI316 Network Computing 6
- CSCI399 Server Technology 6

Students with a WAM of 70+ at 200 level are recommended to take:

- INFO303 Advanced Project 12

Students with a WAM of 70+ at 200 level may choose to take:

- ECTE391 Internet Technology Project 6

Further electives must be chosen to make a total of 48 credit points for the year. These are to be selected from:

- CSCI311 Software Process Management 6
- CSCI313 Object Oriented Programming 6
- CSCI315 Database Design and Implementation 6
- CSCI324 Human Computer Interface 6
- CSCI361 Computer Security 6
- CSCI446 Multimedia Studies 6
- DES321 New Media Theory 6
- ECTE301 Digital Signal Processing 1 6
- ECTE363 Communication Theory 6
- IACT302 Telecommunications Network Planning 6
- IACT406 Business On-Line 6
- ITCS432 Web Design 6

Note that because of pre-requisites, a few of the electives in this year are dependent on the choice of electives at second year.

**B Internet Applications**

**Year 1**

- ECTE195 Design and Management 6
- ECTE196 Internet Technology 1 6
- CSCI101 Introduction to Information Technology A 6
- CSCI111 Computer Science 1A 6
- CSCI102 Introduction to Information Technology B 6
- CSCI121 Computer Science 1B 6
- MATH122 Probability and Logic 6

All students must choose one elective, and those who are exempt from CSCI101 must choose two electives from:

- ACCY100 Accounting 1A 6
- ACCY102 Accounting 1B 6
- ECON101 Macroeconomic Essentials for Business 6
- ECON111 Introductory Micro-Economics 6
- LAW100 Law in Society 6
- MARK101 Introduction to Marketing 6
- MGMT110 Introduction to Management 6
- CSCI131 Introduction to Computer Systems 6

**Year 2**

- CSCI213 Java Programming and the Internet 6
- IACT201 Information Technology and Citizens' Rights 6
- ECTE291 Internet Systems 6
- INFO202 Project 6

In addition four electives must be chosen from:

- CSCI204 Programming: The C Family and Unix 6
- CSCI205 Development Methods and Tools 6
- CSCI214 Distributed Systems 6
- CSCI235 Databases 6
- DES211 Introduction to Web Design 6
- DES212 Advanced Web Design 6
- ECTE202 Circuits and Systems 6
- ECTE212 Electronics and Communications 6
- ECTE233 Digital Hardware 1 6
Course Structures

ECTE281 Embedded Internet Systems 6
ECTE292 Internet Technology 2 6
IACT202 The Structure and organisation of Telecommunications 6

Note that the availability of electives in Year 3 depends on the choices made here. To have maximum flexibility it is recommended that students choose CSCI204.

Year 3

IACT303 Worldwide Networking 6

Students with a WAM of 70+ at 200 level are strongly recommended to take the 12 credit point project.
INFO303 Advanced Project 12

A further seven electives (or five if INFO303 is already chosen) must be selected from:

CSCI212 Operating Systems 6
CSCI311 Software Process Management 6
CSCI315 Database Design and Implementation 6
CSCI316 Network Computing 6
CSCI322 Systems Administration 6
CSCI324 Human Computer Interface 6
CSCI336 Computer Graphics 6
CSCI399 Server Technology 6
CSCI399 Server Technology 6
CSCI446 Multimedia Studies 6
DES311 Interactive Multimedia Design 6
ECTE333 Digital Hardware 2 6
ECTE364 Telecommunications Networks 1 6
ECTE392 Wireless Internet 6
IACT301 Information and Communication Security Issues 6
IACT302 Corporate Network Planning 6
IACT406 Business On-Line 6
ITCS432 Web Design 6

C Internet Commerce

Students enrolling in this major may need to make a choice about 3rd year electives during the first year. If they wish to study 300 level ACCY then they must study both ACCY100 and ACCY102 in the first year and ACCY221 and/or ACCY231 in the second year. In the standard program (see below) this would be possible only for students who are exempt from CSCI101 or who are willing to study in summer session (for example CSCI121). Accordingly a modified program is also presented. This has the disadvantage of restricting some of the choices of CSCI subjects at 300 level.

Year 1 (Standard Program)

ECTE195 Design and Management 6
ECTE196 Internet Technology 1 6
CSCI101 Introduction to Information Technology A 6
CSCI111 Computer Science 1A 6
CSCI102 Introduction to Information Technology B 6
CSCI121 Computer Science 1B 6
STAT131 Understanding Variation and Uncertainty 6

All students must choose one elective and those who are exempt from CSCI101 must choose two electives from:

ACCY100 Accounting 1A 6
ACCY102 Accounting 1B 6
ECON101 Macroeconomic Essentials for Business 6
ECON111 Introductory Micro-Economics 6
LAW100 Law in Society 6
MARK101 Introduction to Marketing 6
MGMT110 Introduction to Management 6
CSCI131 Introduction to Computer Systems 6
ECTE191 WWW Engineering 6

Year 2 (Standard Program)

CSCI213 Java Programming and the Internet 6
IACT201 Information Technology and Citizens’ Rights 6
ECTE291 Internet Systems 6
In addition four electives must be chosen from:

- ACCY221 Business Finance 1 6
- ACCY231 Information Systems in Accounting 6
- BUSS208 Computer Systems Management 6
- BUSS211 Systems Analysis and Design 6
- BUSS212 Database Management Systems 6
- BUSS213 Multimedia in organisations 6
- CSCI204 Programming: The C Family and Unix 6
- CSCI205 Development Methods and Tools 6
- CSCI214 Distributed Systems 6
- CSCI235 Databases 6
- DES211 Introduction to Web Design 6
- DES212 Advanced Web Design 6
- ECTE281 Embedded Internet Systems 6
- IACT202 The Structure and organisation of Telecommunications 6
- LAW210 Contract Law 6
- MGMT200 Management and Electronic Business 6

**Year 3 (Standard Program)**

IACT303 Worldwide Networking 6

At least one of:

- IACT301 Information and Communication Security Issues 6
- IACT302 Corporate Network Planning 6
- IACT406 Business On-Line 6
- CSCI446 Multimedia Studies 6

Students with a WAM of 70+ at 200 level are strongly recommended to take the 12 credit point project:

INFO303 Advanced Project 12

A further six electives (or four if INFO303 is already chosen) must be selected from:

- CSCI324 Human Computer Interface 6
- IACT301 Information and Communication Security Issues 6
- IACT302 Corporate Network Planning 6
- IACT406 Business On-Line 6
- CSCI446 Multimedia Studies 6
- CSCI336 Computer Graphics 6
- CSCI316 Network Computing 6
- CSCI311 Software Process Management 6
- CSCI315 Database Design and Implementation 6
- CSCI399 Server Technology 6
- MARK301 Marketing on the Internet 6
- ECON319 Electronic Commerce and the Economics of Information 6
- COMM300 Innovation and Electronic Commerce 6
- ACCY332 Advanced Information Systems in Accounting 6
- ACCY335 System Analysis and Design in Accounting and Finance 6
- ACCY353 Global Electronic Finance 6
- BUSS312 Distributed Information Systems 6
- LAW331 Intellectual Property Law 6
- ECTE392 Wireless Internet 6
- ITC8432 Web Design 6
- DES311 Interactive Multimedia Design 6

The following modified program is designed to allow easy access to 300 level ACCY subjects.

**Year 1 (Modified Program)**

- ECTE195 Design and Management 6
- ECTE196 Internet Technology 1 6
- CSCI101 Introduction to Information Technology A 6
- CSCI102 Introduction to Information Technology B 6
- ACCY100 Accounting 1A 6
- ACCY102 Accounting 1B 6
### Course Structures

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT131</td>
<td>Understanding Variation and Uncertainty</td>
<td>6</td>
</tr>
</tbody>
</table>

All students must choose one elective and those who are exempt from CSCI101 must choose two electives from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
</tr>
<tr>
<td>ECON111</td>
<td>Introductory Micro-Economics</td>
<td>6</td>
</tr>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td>MARK101</td>
<td>Introduction to Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MGMT110</td>
<td>Introduction to Management</td>
<td>6</td>
</tr>
<tr>
<td>ECTE191</td>
<td>WWW Engineering</td>
<td>6</td>
</tr>
</tbody>
</table>

**Year 2 (Modified Program)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>IACT201</td>
<td>Information Technology and Citizens' Rights</td>
<td>6</td>
</tr>
<tr>
<td>ECTE291</td>
<td>Internet Systems</td>
<td>6</td>
</tr>
<tr>
<td>INFO202</td>
<td>Project</td>
<td>6</td>
</tr>
</tbody>
</table>

In addition three electives must be chosen from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IACT202</td>
<td>The Structure and organisation of Telecommunications</td>
<td>6</td>
</tr>
<tr>
<td>MGMT200</td>
<td>Management and Electronic Business</td>
<td>6</td>
</tr>
<tr>
<td>BUSS208</td>
<td>Computer Systems Management</td>
<td>6</td>
</tr>
<tr>
<td>BUSS211</td>
<td>Systems Analysis and Design</td>
<td>6</td>
</tr>
<tr>
<td>BUSS212</td>
<td>Database Management Systems</td>
<td>6</td>
</tr>
<tr>
<td>BUSS213</td>
<td>Multimedia in organisations</td>
<td>6</td>
</tr>
<tr>
<td>ACCY221</td>
<td>Business Finance 1</td>
<td>6</td>
</tr>
<tr>
<td>ACCY231</td>
<td>Information Systems in Accounting</td>
<td>6</td>
</tr>
<tr>
<td>LAW210</td>
<td>Contract Law</td>
<td>6</td>
</tr>
<tr>
<td>DES211</td>
<td>Introduction to Web Design</td>
<td>6</td>
</tr>
<tr>
<td>DES212</td>
<td>Advanced Web Design</td>
<td>6</td>
</tr>
<tr>
<td>ECTE281</td>
<td>Embedded Internet Systems</td>
<td>6</td>
</tr>
</tbody>
</table>

Note that students must choose one or both ACCY221 and ACCY231 in order to study ACCY at 300 level.

**Year 3 (Modified Program)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IACT303</td>
<td>Worldwide Networking</td>
<td>6</td>
</tr>
<tr>
<td>CSCI213</td>
<td>Java Programming and the Internet</td>
<td>6</td>
</tr>
</tbody>
</table>

At least one of:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IACT301</td>
<td>Information and Communication Security Issues</td>
<td>6</td>
</tr>
<tr>
<td>IACT302</td>
<td>Corporate Network Planning</td>
<td>6</td>
</tr>
<tr>
<td>IACT406</td>
<td>Business On-Line</td>
<td>6</td>
</tr>
<tr>
<td>CSCI446</td>
<td>Multimedia Studies</td>
<td>6</td>
</tr>
</tbody>
</table>

Students with a WAM of 70+ at 200 level are strongly recommended to take the 12 credit point project.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO303</td>
<td>Advanced Project</td>
<td>12</td>
</tr>
</tbody>
</table>

A further five electives (or three if INFO303 is already chosen) must be selected from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI324</td>
<td>Human Computer Interface</td>
<td>6</td>
</tr>
<tr>
<td>IACT301</td>
<td>Information Communication Security Issues</td>
<td>6</td>
</tr>
<tr>
<td>IACT302</td>
<td>Telecommunications Network Planning</td>
<td>6</td>
</tr>
<tr>
<td>IACT406</td>
<td>Business On-Line</td>
<td>6</td>
</tr>
<tr>
<td>CSCI446</td>
<td>Multimedia Studies</td>
<td>6</td>
</tr>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>CSCI205</td>
<td>Development Methods and Tools</td>
<td>6</td>
</tr>
<tr>
<td>CSCI214</td>
<td>Distributed Systems</td>
<td>6</td>
</tr>
<tr>
<td>CSCI235</td>
<td>Databases</td>
<td>6</td>
</tr>
<tr>
<td>CSCI399</td>
<td>Server Technology</td>
<td>6</td>
</tr>
<tr>
<td>CSCI336</td>
<td>Computer Graphics</td>
<td>6</td>
</tr>
<tr>
<td>CSCI316</td>
<td>Network Computing</td>
<td>6</td>
</tr>
<tr>
<td>CSCI311</td>
<td>Software Process Management</td>
<td>6</td>
</tr>
<tr>
<td>CSCI315</td>
<td>Database Design and Implementation</td>
<td>6</td>
</tr>
<tr>
<td>MARK301</td>
<td>Marketing on the Internet</td>
<td>6</td>
</tr>
<tr>
<td>ECON319</td>
<td>Electronic Commerce and the Economics of Information</td>
<td>6</td>
</tr>
<tr>
<td>COMM300</td>
<td>Innovation and Electronic Commerce</td>
<td>6</td>
</tr>
<tr>
<td>ACCY332</td>
<td>Advanced Information Systems in Accounting</td>
<td>6</td>
</tr>
</tbody>
</table>
Faculty of Informatics

ACCY335  System Analysis and Design in Accounting and Finance  6
ACCY353  Global Electronic Finance  6
BUS312  Distributed Information Systems  6
LAW311  Intellectual Property Law  6
DES311  Interactive Multimedia Design  6
ITCS432  Web Design  6

D  Internet Science

Year 1
ECTE195  Design and Management  6
ECTE196  Internet Technology 1  6
CSCI101  Introduction to Information Technology A  6
CSCI111  Computer Science 1A  6
CSCI102  Introduction to Information Technology B  6
CSCI121  Computer Science 1B  6
MATH187  Maths 1A Part 1  6
MATH188  Maths 1A Part 2  6

Year 2
CSCI213  Java Programming and the Internet  6
IACT201  Information Technology and Citizens' Rights  6
STAT231  Probability and Random Variables  6
ECTE291  Internet Systems  6
INFO202  Project  6

In addition four electives must be chosen from:
MATH121  Discrete Mathematics  6
MATH201  Multivariate and Vector Calculus  6
MATH204  Complex Variables and Group Theory  6
MATH222  Continuous and Finite Mathematics  6
STAT131  Understanding Variation and Uncertainty  6
STAT232  Estimation and Hypothesis Testing  6
CSCI204  Programming: The C Family and Unix  6
CSCI205  Development Methods and Tools  6
CSCI214  Distributed Systems  6
CSCI235  Databases  6
IACT202  The Structure and organisation of Telecommunications  6
DES211  Introduction to Web Design  6
DES212  Advanced Web Design  6
ECTE281  Embedded Internet Systems  6

Year 3
IACT303  Worldwide Networking  6
IACT413  Information Theory  6

Students with a WAM of 70+ at 200 level are recommended to take the 12 credit point project:
INFO303  Advanced Project  12

A further six electives (or four if INFO303 is already chosen) must be selected from:
CSCI324  Human Computer Interface  6
IACT301  Information and Communication Security Issues  6
IACT302  Corporate Network Planning  6
IACT406  Business On-Line  6
CSCI446  Multimedia Studies  6
CSCI399  Server Technology  6
CSCI336  Computer Graphics  6
CSCI316  Network Computing  6
CSCI311  Software Process Management  6
CSCI315  Database Design and Implementation  6
MATH372  Special Topics in Mathematical Analysis III  6
MATH203  Linear Algebra  6
INFO412  Mathematics for Cryptography  6
Course Structures

ECTE363 Communication Theory 6
DES311 Interactive Multimedia Design 6
ITCS432 Web Design 6

Bachelor of Internet Science and Technology (Honours)
Candidates who achieve a credit average or better in the Bachelor of Internet Science and Technology are eligible to enrol in an additional year's study towards a Bachelor of Internet Science and Technology (Honours) (BInternet(Hons)). Contact the course coordinator for details.

Bachelor of Mathematics

Requirements
The following requirements for the Bachelor of Mathematics degree are to be read in conjunction with University Course Rule 108.
To qualify for the award of the degree of Bachelor of Mathematics, candidates must satisfactorily complete at least 144 credit points from either or both the subjects prescribed for the Bachelor or Mathematics and the General Schedule, including:

1) MATH187 Mathematics 1A Part 1 and MATH188 Mathematics 1A Part 2,
2) MATH111 Applied Mathematical Modelling 1 or MATH212 Applied Mathematical Modelling 2,
3) MATH121 Discrete Mathematics or MATH222 Continuous and Finite Mathematics,
4) STAT131 Understanding Variation and Uncertainty, or STAT231 Probability and Random Variables,
5) CSCI111 Computer Science 1A
6) each of the subjects
   MATH201 Multivariate and Vector Calculus
   MATH202 Differential Equations 2,
   MATH203 Linear Algebra and
   MATH204 Complex Variables and Group Theory,
7) at least one of the subjects
   MATH212 Applied Mathematical Modelling 2
   MATH222 Continuous and Finite Mathematics or
   STAT231 Probability and Random Variables (not additional to 2. or 3. or 4.),
8) 300-level subjects from the Bachelor of Mathematics subjects with a value of at least
   a) 36 credit points, or
   b) 24 credit points, should a major study in Computer Science also be satisfactorily completed, or
   c) 30 credit points, should any other major study also be satisfactorily completed,
9) within requirements 1. to 8., a major study in either Mathematics or Applied Statistics, and
10) no more than 60 credit points at the 100-level.

Bachelor of Mathematics Subjects
Set out below are those subjects referred to in Rule 108 which may be taken in the Bachelor of Mathematics degree.

100-Level
MATH187 Mathematics 1A Part 1 6
MATH188 Mathematics 1A Part 2 6
MATH111 Applied Mathematical Modelling 1 6
MATH121 Discrete Mathematics 6
CSCI111 Computer Science 1A 6
STAT131 Understanding Variation and Uncertainty 6

200-Level
MATH201 Multivariate and Vector Calculus 6
MATH202 Differential Equations 2 6
MATH203 Linear Algebra 6
MATH204 Complex Variables and Group Theory 6
MATH212  Applied Mathematical Modelling 2  6
MATH222  Continuous and Finite Mathematics  6
STAT231  Probability and Random Variables  6
STAT232  Estimation and Hypothesis Testing  6

300-Level
MATH302  Differential Equations 3  6
MATH305  Partial Differential Equations  6
MATH312  Applied Mathematical Modelling 3  6
MATH313  Industrial Mathematical Modelling  6
MATH316  Applied Dynamics  6
MATH317  Financial Calculus and Logistics  6
MATH321  Numerical Analysis  6
MATH322  Algebra  6
MATH323  Topology and Chaos  6
MATH324  Analysis  6
MATH371  Special Topics in Applied Mathematics 3  6
MATH372  Special Topics in Mathematical Analysis III  6
STAT304  Operations Research and Applied Probability  6
STAT332  Multiple Regression and Time Series  6
STAT333  Statistical Inference and Multivariate Analysis  6
STAT335  Sample Surveys and Experimental Design  6
STAT373  Special Topics in Probability and Statistics 3  6

400-Level
MATH401  Mathematics 4 (Honours)  48
STAT401  Statistics 4 (Honours)  48

Areas of Major Study
Within the Bachelor of Mathematics, a major study in either Mathematics or Applied Statistics can be combined with a major study in the following disciplines:

- Computer Science
- Economics
- Accountancy
- Business Systems
- Management
- Marketing
- Finance
- Biomedical Sciences

Candidates wishing to major in Mathematics and/or Applied Statistics and a discipline not listed above are advised to first consult with the Sub-Dean of the Faculty of Informatics for verification of their intended program. Candidates may also study a major in the following areas of science, but this will necessitate completing more than the standard 144 credit points in the degree:

- Biological Sciences
- Chemistry
- Geology
- Human Geography
- Physical Geography
- Geoscience
- Physics
Course Structures

Major Study in Mathematics (code MATH)
Major Study in Applied Statistics (code STAT)
Major Study in Mathematics and Applied Statistics (code MAST)

To satisfy the requirements for a major study in Mathematics, a student shall satisfactorily complete (at a grade of Pass or better) any MATH or STAT subjects listed below, to a total of at least 48 credit points; of which at least 18 credit points must be at 200 level and at least 24 credit points must be at 300 level.

To satisfy the requirements for a major study in Applied Statistics, a student shall satisfactorily complete (at a grade of Pass or better) any MATH or STAT subjects listed below, to a total of at least 48 credit points; of which at least 18 credit points must be at 200 level and must include STAT231 and STAT232; and at least 24 credit points must be of 300 level STAT subjects.

100-Level
- MATH187 Mathematics 1A Part 1 6
- MATH188 Mathematics 1A Part 2 6
- MATH111 Applied Mathematical Modelling 1 6
- MATH121 Discrete Mathematics 6
- STAT131 Understanding Variation and Uncertainty 6

200-Level
- MATH201 Multivariate and Vector Calculus 6
- MATH202 Differential Equations 2 6
- MATH203 Linear Algebra 6
- MATH204 Complex Variables and Group Theory 6
- MATH212 Applied Mathematical Modelling 2 6
- MATH222 Continuous and Finite Mathematics 6
- STAT231 Probability and Random Variables 6
- STAT232 Estimation and Hypothesis Testing 6

300-Level
- MATH302 Differential Equations 3 6
- MATH305 Partial Differential Equations 6
- MATH312 Applied Mathematical Modelling 3 6
- MATH313 Industrial Mathematical Modelling 6
- MATH316 Applied Dynamics 6
- MATH317 Financial Calculus and Logistics 6
- MATH321 Numerical Analysis 6
- MATH322 Algebra 6
- MATH323 Topology and Chaos 6
- MATH324 Analysis 6
- MATH371 Special Topics in Applied Mathematics 3 6
- MATH372 Special Topics in Mathematical Analysis III 6
- STAT304 Operations Research and Applied Probability 6
- STAT332 Multiple Regression and Time Series 6
- STAT333 Statistical Inference and Multivariate Analysis 6
- STAT335 Sample Surveys and Experimental Design 6
- STAT373 Special Topics in Probability and Statistics 3 6

400-Level
- MATH401 Mathematics 4 (Honours) 48
- STAT401 Statistics 4 (Honours) 48
- INFO411 Data Mining and Knowledge Discovery 6
- INFO412 Mathematics for Cryptography 6

Mathematics and Computer Science (code MA01)
Applied Statistics and Computer Science (code ST01)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Computer Science are advised of the following approved major study (48 credit points total) from within the School of Information Technology and Computer Science.

CSCI111 Computer Science 1A 6
CSCI121 Computer Science 1B 6
CSCI204 Programming: The C Family and Unix 6
either
CSCI205 Development Methods and Tools

or
CSCI203 Data Structures, Algorithms, Systems
CSCI321 Project

together with any other 12 credit points for 300-level Computer Science subjects.

Major study in Mathematics or Applied Statistics and Economics

Mathematics and Economics (code MA03)

Applied Statistics and Economics (code ST03)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Economics are advised of the following approved major study (52 credit points total) from within the Department of Economics. Alternatively candidates may wish to consider enrolling in the Bachelor of Mathematics and Economics or the Bachelor of Mathematics and Finance.

ECON101 Macroeconomic Essentials for Business 6
ECON111 Introductory Microeconomics 6

either
ECON205 Macroeconomic Theory and Policy 8
or
ECON215 Microeconomic Theory and Policy 8
ECON322 Mathematical Economics 8

together with any 24 credit points of 300-level Economics subjects.

Major study in Mathematics or Applied Statistics and Econometrics

Mathematics and Econometrics (code MA04)

Applied Statistics and Econometrics (code ST04)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Econometrics are advised of the following approved major study (48 credit points total) from within the Department of Economics.

ECON221 Introductory Econometrics 8
ECON231 Business Statistics and Forecasting 8
ECON228 Quantitative Analysis for Decision Making 8
ECON322 Mathematical Economics 8
ECON327 Econometrics 8

together with another 8 credit points of 300-level Economics subjects.

Major study in Mathematics or Applied Statistics and Accountancy

Mathematics and Accountancy (code MA05)

Applied Statistics and Accountancy (code ST05)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Accountancy are advised of the following approved major study (54 credit points total) from within the Department of Accountancy.

ACCY100 Accounting 1A 6
ACCY102 Accounting 1B 6
ACCY201 Financial Accounting 2B 6
ACCY202 Financial Accounting 2A 6
ACCY211 Management Accounting 2 6
ACCY302 Financial Accounting 3 12
ACCY312 Management Accounting 3 12

except that candidates may replace
a) either ACCY302 or ACCY312 by any 12 credit points at the 300-level from the Department of Accountancy, or
b) either ACCY302 or ACCY312 by a 6 credit point 300-level subject from the Department of Accountancy together with not less than 6 credit points at the 300-level selected from the General Schedule and approved by the Head of the Department of Accounting and Finance.

Candidates are advised that further subjects must be taken to satisfy the requirements of the professional accounting bodies.
Course Structures

Major study in Mathematics or Applied Statistics and Business Systems

Mathematics and Business Systems (code MA06)
Applied Statistics and Business Systems (code ST06)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Business Systems are advised of the following approved major study (60 credit points total) from within the Department of Business Systems.

- **BUSS110** Introduction to Business Information Systems 6
- **BUSS111** Business Programming I 6
- **BUSS211** Systems Analysis and Design 6
- **BUSS212** Database Management Systems 6
- **BUSS214** Business Programming II 6
- **BUSS215** Business Programming III 6
- **BUSS311** Advanced Database Management Systems 6
- **BUSS312** Distributed Information Systems 6
- **BUSS316** Information Systems Development Methodologies 6
- **BUSS317** Business Programming IV 6

CSCI111 Computer Science IA may substitute for BUSS111

Major study in Mathematics or Applied Statistics and Management

Mathematics and Management (code MA12)
Applied Statistics and Management (code ST12)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Management are advised of the following approved major study (60 credit points total) from within the Department of Management.

- **ACCY100** Accounting 1A 6
- **ACCY102** Accounting 1B 6
- **MGMT110** Introduction to Management 6
- **MGMT201** organisational Behaviour 6
- **MARK101** Introduction to Marketing 6
- **MGMT314** Business Policy 6
- **MGMT398** Human Resource Management 6

Plus 12 credit points from 300-level subjects offered by the Department of Management.

Major study in Mathematics or Applied Statistics and Marketing

Mathematics and Marketing (code MA13)
Applied Statistics and Marketing (code ST13)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Marketing are advised of the following approved major study (48 credit points total) from within the Department of Marketing.

- **MARK101** Introduction to Marketing 6
- **MARK217** Consumer Behaviour 6
- **MARK239** Information for Marketing Decisions 6
- **MARK319** Applied Marketing Research 6
- **MARK333** Advertising and Promotion Strategy 6
- **MARK344** Marketing Strategy 6

Plus 12 credit points from the following:

- **MARK240** Marketing and Consumer Behaviour in East and South East Asia 6
- **MARK270** Services Marketing 6
- **MARK301** Marketing on the Internet 6
- **MARK317** Business to Business Marketing 6
- **MARK343** International Marketing 6
- **MARK356** New Product Marketing 6
- **MARK359** Sales Management 6
- **MARK395** Tourism Marketing 6
- **MARK397** Retail Marketing Management 6

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Major study in Mathematics or Applied Statistics and Finance

Mathematics and Finance (code MA14)

Applied Statistics and Finance (code ST14)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Finance are advised of the following approved major study (54 credit points total) from within the Department of Accounting and Finance. Alternatively candidates may wish to consider enrolling in the Bachelor of Mathematics and Economics or the Bachelor of Mathematics and Finance.

ACCY100  Accounting 1A  6  
ACCY102  Accounting 1B  6  
ACCY221  Business Finance 1  6  
ACCY223  Investments 2  6  
ACCY322  Business Finance 2  6  
ACCY323  Investments 2  6  

Plus 2 other 300-level subjects offered by the Department of Accounting and Finance (eg. ACCY324, ACCY325, etc).

Major study in Mathematics or Applied Statistics and Biomedical Sciences

Mathematics and Biomedical Sciences (code MA15)

Applied Statistics and Biomedical Sciences (code ST15)

Candidates wishing to combine a major study in either Mathematics or Applied Statistics with a major study in Biomedical Sciences are advised of the following approved major study (54 credit points total) from within the Department of Biomedical Sciences.

BMS101  Systematic Anatomy  6  
BMS112  Human Physiology 1: Principles and Systems  6  
BMS202  Human Physiology 2: Control Mechanisms  6  
BMS242  Exercise Physiology  6  
BMS342  Advanced Exercise Physiology  8  
BMS344  Cardiorespiratory Physiology  8  

and either

BMS211  Foundations of Biomechanics  6  
or

BMS352  Introduction to Neuroscience  6  

and either

BMS341  Clinical Biomechanics  8  

or

BMS346  Motor Control and Dysfunction  8  

Major Studies in Mathematics/Statistics and Various Sciences

Students should refer to an Academic Adviser in the school of Maths and Applied Statistics for assistance with choice of subjects.

code MA07 - Mathematics and Biology  
code MA08 - Mathematics and Chemistry  
code MA02 - Mathematics and Geography  
code MA09 - Mathematics and Geology  
code MA10 - Mathematics and Physics  
code MA11 - Mathematics and Ecology and Biogeography  
code ST07 - Applied Statistics and Biology  
code ST08 - Applied Statistics and Chemistry  
code ST02 - Applied Statistics and Geography  
code ST09 - Applied Statistics and Geology  
code ST10 - Applied Statistics and Physics  
code ST11 - Applied Statistics and Ecology and Biogeography
Course Structures

The Faculty suggests the following Undergraduate Degree programs for students wishing to undertake particular Mathematical careers:

The following information is intended as a guideline to the candidate in selecting suitable supplementary subjects to make a reasonable pattern for Mathematics degrees in the various fields of Mathematics.

All candidates are expected to consult with the School and Faculty advisers before committing themselves completely to any particular pattern, whether outlined below or not.

It is emphasised that the following programs are based on the usual 48 credit points per year, totalling 144 credit points over 3 years.

**Industrial and Applied Mathematics (including Numerical Analysis)**

First Year MATH187, MATH188, MATH111, MATH121, STAT131 and CSCI111 (and 12 other credit points possibly being PHYS141 and PHYS142)

Second Year MATH201, MATH202, MATH203, MATH204 and MATH212 (and 18 other credit points from the General Schedule, possibly including further Mathematics subjects)

Third Year MATH302, MATH305, and at least 2 of MATH312, MATH313, MATH316, MATH317 and MATH321 (and up to 12 other credit points from the Mathematics Schedule, and 12 other credit points)

**Mathematical Analysis**

First Year MATH187, MATH188, MATH111, MATH121, STAT131 and CSCI111 (and 12 other credit points)

Second Year MATH201, MATH202, MATH203, MATH204 and MATH222 (and 18 other credit points from the General Schedule, possibly including further Mathematics subjects)

Third Year MATH302 and at least 3 of MATH321, MATH322, MATH323 and MATH324# (and 12 other credit points from the Mathematics Schedule and 12 other credit points)

# Only run in odd numbered years.

**Applied Statistics**

First Year MATH187, MATH188, MATH111, MATH121, STAT131 and CSCI111 (and 12 other credit points)

Second Year MATH201, MATH202, MATH203, MATH204, STAT231 and STAT232 (and 12 other credit points from the General Schedule, possibly including further Mathematics subjects)

Third Year STAT304, STAT332, STAT333, and STAT335 (and 12 other credit points from the Mathematics Schedule and 12 other credit points)

**Mathematics Teachers**

First Year MATH187, MATH188, MATH111, MATH121, STAT131 and CSCI111 (and 12 other credit points)

Second Year MATH201, MATH202, MATH203 and MATH204, and 12 credit points of 200-level Mathematics subjects selected from the Mathematics Schedule (and 12 other credit points from the General Schedule, possibly including further Mathematics subjects)

Third Year 36 credit points of 300-level subjects selected from the Mathematics Schedule (and 12 other credit points from the General Schedule, possibly including further Mathematics subjects)

The minimum requirement for employment as a Mathematics teacher is 60 credit points of Mathematics, including a major study at 300-level, although a candidate is encouraged to do a Mathematics degree.

**Bachelor of Mathematics (Advanced)**

**Degree Regulations**

To qualify for the award of the degree of Bachelor of Mathematics (Advanced), candidates must satisfactorily complete at least 144 credit points from either or both the Mathematics and the General Schedule including:

(i) MATH110

(ii) CSCI111

(iii) Each of the subjects MATH201, MATH202, MATH203 and MATH204

(iv) Each of the subjects MATH212, MATH222 and STAT231

(v) the subject MATH235 or STAT235
(vi) the subject MATH345 or STAT345
(vii) 300 level subjects from the Mathematics Schedule with a value of at least:
   - 36 credit points, or
   - 24 credit points, if there is a major study in Computer Science
   - 30 credit points, if there is any other major study
(viii) a major study in Mathematics or Statistics (apart from MATH345 and STAT345)
(ix) no more than 60 credit points at 100 level.

**Enrolment Patterns**

Note that a student could do some 300 level subjects in second year.

1. **Program in Mathematics, Statistics plus another discipline**

   The following is a possible enrolment program for someone doing a “major” in a discipline other than Mathematics, Statistics or Computer Science. [NOTE that a program like this does not mean that the formal requirements for a major in the other discipline will be satisfied. Candidates are advised to check the requirements for a major in other disciplines listed under the Bachelor of Mathematics degree regulations.] Considerable variation is possible.

   **First year**
   - MATH110 Advanced Mathematics 1 6
   - MATH201 Multivariate and Vector Calculus 6
   - MATH203 Linear Algebra 6
   - MATH202 Differential Equations 2 6
   - CSCI111 Computer Science 1A 6
   - Plus 18 other Credit points

   **Second year**
   - MATH235/  
   - STAT235 Project A 6
   - STAT231 Probability and Random Variables 6
   - MATH204 Complex Variables and Group Theory 6
   - MATH212 Applied Mathematical Modelling 2 6
   - MATH222 Continuous and Finite Mathematics 6
   - Plus 18 other credit points

   **Third year**
   - 24 credit points of Math/Stat 300 subjects
   - Plus
   - MATH345/  
   - STAT345 Project B 6
   - Plus
   - 18 credit points of other subject major

2. **Program in Industrial and Applied Mathematics**

   **First year**
   - MATH110 Advanced Mathematics 1 6
   - MATH201 Multivariate and Vector Calculus 6
   - MATH203 Linear Algebra 6
   - MATH202 Differential Equations 2 6
   - CSCI111 Computer Science 1A 6
   - Plus 18 other Credit points

   **Second year**
   - MATH235  
   - STAT231 Probability and Random Variables 6
   - MATH204 Complex Variables and Group Theory 6
   - MATH212 Applied Mathematical Modelling 2 6
   - MATH222 Continuous and Finite Mathematics 6
   - Plus 18 other credit points
Course Structures

Third year
MATH302 Differential Equations 3  6
MATH305 Partial Differential Equations 6
At least 2 of MATH312, MATH313, MATH314, MATH316 and MATH321.
MATH345 Project B  6
Plus 18 other credit points

3. Program in Mathematical Analysis
First year
MATH110 Advanced Mathematics 1  6
MATH201 Multivariate and Vector Calculus 6
MATH203 Linear Algebra 6
MATH202 Differential Equations 2 6
CSCI111 Computer Science 1A 6
Plus 18 other Credit points

Second year
STAT231 Probability and Random Variables 6
MATH204 Complex Variables and Group Theory 6
MATH212 Applied Mathematical Modelling 2 6
MATH222 Continuous and Finite Mathematics 6
MATH235 Project A 6
Plus 18 other credit points

Third year
MATH302 Differential Equations 3  6
At least 3 of MATH321, MATH322, MATH323 and MATH324.
MATH345 Mathematics Project B  6
Plus 18 other credit points

4. Program in Applied Statistics
First year
MATH110 Advanced Mathematics 1  6
MATH201 Multivariate and Vector Calculus 6
MATH203 Linear Algebra 6
MATH202 Differential Equations 2 6
CSCI111 Computer Science 1A 6
Plus 18 other Credit points

Second year
STAT231 Probability and Random Variables 6
STAT232 Estimation and Hypothesis Testing 6
STAT235 Statistics Project A 6
MATH204 Complex Variables and Group Theory 6
MATH212 Applied Mathematical Modelling 2 6
MATH222 Continuous and Finite Mathematics 6
Plus 12 other credit points

Third year
STAT304 Operations Research and Applied Probability 6
STAT332 Multiple Regression and Time Series 6
STAT333 Statistical Inference and Multivariate Analysis 6
STAT335 Sample Surveys and Experimental Design 6
STAT345 Statistics Project B 6
Plus 18 other credit points
Bachelor of Mathematical Sciences

To qualify for the award of the degree of Bachelor of Mathematical Sciences a candidate shall satisfactorily complete the requirements of one of the five prescribed strands.

The five strands are:
Mathematics-Statistics/Science,
Mathematics/Ecology,
Mathematics/Geoscience,
Statistics/Ecology and
Statistics/Public Health.

Recommended Programs

The following programs of study are recommended to satisfy the requirements in minimum time. The subjects listed in the Recommended Programs are compulsory, save that, in any program, no more than 66 credit points shall be for 100 level subjects.

Note: The following recommended programs are only available in a given year subject to suitability with respect to the University Timetable.

Mathematics-Statistics/Science Strand

Codes for Mathematics-Statistics/Science Strand
(code MA07 - Mathematics and Biology)
(code MA08 - Mathematics and Chemistry)
(code MA02 - Mathematics and Geography)
(code MA09 - Mathematics and Geology)
(code MA10 - Mathematics and Physics)
(code MA11 - Mathematics and Ecology and Biogeography)
(code ST07 - Applied Statistics and Biology)
(code ST08 - Applied Statistics and Chemistry)
(code ST02 - Applied Statistics and Geography)
(code ST09 - Applied Statistics and Geology)
(code ST10 - Applied Statistics and Physics)
(code ST11 - Applied Statistics and Ecology and Biogeography)

Candidates for the degree of Bachelor of Mathematical Sciences, and taking the Mathematics-Statistics/Science strand, must, in addition to the general requirements, satisfy the following additional requirements:

i) a major study in Mathematics shall be completed satisfactorily;
ii) no more than 66 credit points shall be for 100-level subjects;
iii) for the Non-honours program, at least 60 credit points shall be for 300- and/or 400-level subjects; and
iv) for the Honours program, at least 72 credit points shall be for 300- and/or 400-level subjects.

1st Year

MATH187 Mathematics 1, Part 1  6
MATH188 Mathematics 1, Part 2  6
MATH111 Applied Mathematical Modelling 1  6
MATH121 Discrete Mathematics  6
STAT131 Understanding Variation and Uncertainty  6
Plus either
BUSS111 Business Programming I  6
or
CSCI111 Computer Science 1A  6

Plus 12 credit points from 100-level CSCI subjects and/or 100-level BIOL, CHEM, GEOS, PHYS, or BMS subjects selected from the Science Schedule and/or the Health and Behavioural Sciences Schedule.

2nd Year

MATH201 Multivariate and Vector Calculus  6
MATH202 Differential Equations 2  6
MATH203 Linear Algebra  6
MATH204 Complex Variables and Group Theory  6

Plus at least 6 credit points being one or more of the subjects MATH212, MATH222 or STAT231.
Course Structures

Plus at least 18 credit points selected from STAT232 and 100- or 200-level BIOL, CHEM, GEOS, PHYS, or BMS subjects from the Science Schedule and/or the Health and Behavioural Sciences Schedule.

3rd Year

At least 30 credit points of 300-level MATH and/or STAT subjects.

Plus at least 18 credit points from 200- or 300-level CSCI subjects and/or 200- or 300-level BIOL, CHEM, GEOS, PHYS, or BMS subjects selected from the Science Schedule and/or the Health and Behavioural Sciences Schedule.

Plus (for those planning to proceed to honours in year 4)

STS217 Scientific Revolution: History Philosophy and Politics of Science 8

4th Year (Non Honours Program)

STS217 Scientific Revolution: History Philosophy and Politics of Science 8

Plus at least 18 credit points from 100- or 200- or 300-level subjects selected from MATH and/or STAT subjects.

Plus at least 18 credit points from 300-level CSCI subjects and/or 300-level BIOL, CHEM, GEOS, PHYS, or BMS subjects selected from the Science Schedule and/or the Health and Behavioural Sciences Schedule.

Plus at least 6 credit points for a MATH and/or STAT subject, or for a 300-level CSCI subject, or for a 300-level BIOL, CHEM, GEOS, or BMS subject selected from the Science Schedule and/or the Health and Behavioural Sciences Schedule, or for an STS subject from the Arts Schedule.

4th Year (Honours Program)

Entry to this program is restricted to candidates who satisfy the pre-requisite for MATH411 or STAT411.

At least 12 credit points of 300- or 400-level subjects selected from MATH and/or STAT subjects, and/or CSCI subjects, and/or BIOL, CHEM, GEOS, PHYS, or BMS subjects selected from the Science Schedule and/or the Health and Behavioural Sciences Schedule, but may include one STS subject from the Arts Schedule.

Plus either

MATH411 Mathematical Sciences Honours Project A 12

and

MATH471 Honours Topics in Mathematics A 6

and

MATH472 Honours Topics in Mathematics B 6

and

MATH473 Honours Topics in Mathematics C 6

and

MATH474 Honours Topics in Mathematics D 6

and

STAT411 Mathematical Sciences Honours Project B 12

and

STAT471 Honours Topics in Statistics A 6

and

STAT472 Honours Topics in Statistics B 6

and

STAT473 Honours Topics in Statistics C 6

and

STAT474 Honours Topics in Statistics D 6

Mathematics/Ecology Strand

(code MS01 - Mathematics and Ecology)

1st Year

BIOL103 Molecules Cells and organisms 6

BIOL104 Evolution Biodiversity and Environment 6

CHEM101 Chemistry 1A: Intro. Physical and General Chemistry 6

CHEM102 Chemistry 1B: Intro. organic and Physical Chemistry 6

MATH187 Mathematics 1A Part 1 6

MATH188 Mathematics 1A Part 2 6

MATH111 Applied Mathematical Modelling 1 6
### 2nd Year
- **BIOL241**: Biodiversity: Classification and Sampling  
- **BIOL251**: Principles of Ecology and Evolution  
- **GEOS112**: Physical Environments  
- **MATH201**: Multivariate and Vector Calculus  
- **MATH202**: Differential Equations 2  
- **MATH203**: Linear Algebra  
- **MATH212**: Applied Mathematical Modelling 2  

Plus either:
- **STAT252**: Statistics for the Natural Sciences  
- **STAT131**: Understanding Variation and Uncertainty

### 3rd Year
- **BIOL351**: Conservation Biology: Marine and Terrestrial Populations  
- **BIOL355**: Marine and Terrestrial Ecology  
- **GEOS239**: Remote Sensing of the Environment  
- **GEOS222**: Biogeography  
- **MATH204**: Complex Variables and Group Theory  
- **MATH302**: Differential Equations 3  
- **MATH312**: Applied Mathematical Modelling 3  
- **MATH321**: Numerical Analysis

### 4th Year (Non Honours Program)
- **STS300**: The Environmental Context  
- **GEOS339**: Geographic Information Systems  
- **MARE322**: Global Environmental Change  
- **MATH305**: Partial Differential Equations  

Plus at least 18 credit points of MATH and/or STAT subjects, with up to 8 credit points being able to be substituted by an STS subject from the Arts Schedule.

### 4th Year (Honours Program)

Entry to this program is restricted to candidates who satisfy the pre-requisite to MATH412

- **STS300**: The Environmental Context  
- **GEOS339**: Geographic Information Systems  
- **MARE322**: Global Environmental Change  
- **MATH305**: Partial Differential Equations  

- **MATH412**: Mathematical Sciences Environmental Honours Project A  

Plus two of:
- **MATH471**: Honours Topics in Mathematics A  
- **MATH472**: Honours Topics in Mathematics B  
- **MATH473**: Honours Topics in Mathematics C  
- **MATH474**: Honours Topics in Mathematics D

### Mathematics/Geoscience Strand
**(code MS02 - Mathematics and Geosciences)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>MATH1111</td>
<td>Applied Mathematical Modelling 1</td>
<td>6</td>
</tr>
<tr>
<td>PHYS132</td>
<td>Physics for the Environmental and Life Sciences B</td>
<td>6</td>
</tr>
</tbody>
</table>
Course Structures

GEOS111  Planet Earth  6
GEOS102  Earth Environments and Resources  6
GEOS112  Physical Environments  6

Plus either

BUSS111  Business Programming I  6
or

CSCI111  Computer Science 1A  6

2nd Year

MATH201  Multivariate and Vector Calculus  6
MATH202  Differential Equations 2  6
MATH203  Linear Algebra  6
MATH212  Applied Mathematical Modelling 2  6
GEOS220  Climate and Natural Hazards  6
GEOS219  The Earth in Crisis  6
GEOS217  Field Techniques in Earth Sciences  6
STAT252  Statistics for the Natural Sciences  6

MATH204  Complex Variables and Group Theory  6
MATH302  Differential Equations 3  6
MATH312  Applied Mathematical Modelling 3  6
MATH321  Numerical Analysis  6

Plus either

GEOS321  Fluvial Geomorphology, Sedimentology and River Management  8
or

MARE323  Coastal Environments: Process and Management  8

Plus either

GEOS302  Basin Resources  8
or

GEOS307  Mineral Resources  8

Plus, only for students proceeding to honours in year 4,

MATH305  Partial Differential Equations  6

Plus at least 6 credit points of 200- or 300-level GEOS subjects

3rd Year

MATH204  Complex Variables and Group Theory  6
MATH302  Differential Equations 3  6
MATH312  Applied Mathematical Modelling 3  6
MATH321  Numerical Analysis  6

Plus either

GEOS321  Fluvial Geomorphology, Sedimentology and River Management  8
or

MARE323  Coastal Environments: Process and Management  8

Plus either

GEOS302  Basin Resources  8
or

GEOS307  Mineral Resources  8

Plus at least 6 credit points of either a MATH or STAT subject, or an STS subject from the Arts Schedule.

4th Year (Non Honours Program)

MATH305  Partial Differential Equations  6
GEOS239  Remote Sensing of the Environment  6
GEOS339  Geographic Information Systems  8
STS300  The Environmental Context  8

Plus either

GEOS321  Fluvial Geomorphology, Sedimentology and River Management  8
or

MARE323  Coastal Environments: Process and Management  8

Plus either

GEOS302  Basin Resources  8
or

GEOS307  Mineral Resources  8

Plus at least 6 credit points of either a MATH or STAT subject, or an STS subject from the Arts Schedule.

4th Year (Honours Program)

Entry to this program is restricted to candidates who satisfy the prerequisite to MATH412

MATH412  Mathematical Sciences Environmental Honours Project A  12
GEOS239  Remote Sensing of the Environment  6
GEOS339  Geographic Information Systems  8
STS300  The Environmental Context  8
### Statistics/Ecology Strand

(code MS31 - Statistics and Ecology)

#### 1st Year
- BIOL103 Molecules Cells and organisms 6
- BIOL104 Evolution Biodiversity and Environment 6
- CHEM101 Chemistry 1A: Intro. Physical and General Chemistry 6
- CHEM102 Chemistry 1B: Intro, organic and Physical Chemistry 6
- MATH187 Mathematics 1A Part 1 6
- MATH188 Mathematics 1A Part 2 6
- STAT131 Understanding Variation and Uncertainty 6

Plus either

- BUSS111 Business Programming I 6

or

- CSCI111 Computer Science IA 6

#### 2nd Year
- BIOL241 Biodiversity: Classification and Sampling 6
- BIOL251 Principles of Ecology and Evolution 6
- GEOS112 Physical Environments 6
- MATH201 Multivariate and Vector Calculus 6
- MATH202 Differential Equations 2 6
- MATH203 Linear Algebra 6
- STAT231 Probability and Random Variables 6
- STAT232 Estimation and Hypothesis Testing 6

#### 3rd Year
- BIOL351 Conservation Biology: Marine and Terrestrial Populations 8
- BIOL355 Marine and Terrestrial Ecology 8
- GEOS239 Remote Sensing of the Environment 6
- GEOS222 Biogeography 6
- MATH204 Complex Variables and Group Theory 6
- STAT332 Multiple Regression and Time Series 6
- STAT333 Statistical Inference and Multivariate Analysis 6
- STAT335 Sample Surveys and Experimental Design 6

#### 4th Year (Non Honours Program)
- STS300 The Environmental Context 8
- GEOS339 Geographic Information Systems 8
- MARE322 Global Environmental Change 8
- MATH302 Differential Equations 3 6

Plus at least 12 credit points of 300-level MATH and/or STAT subjects.

Plus at least 6 credit points of MATH and/or STAT subjects, or an STS subject from the Arts Schedule.

#### 4th Year (Honours Program)

Entry to this program is restricted to candidates who satisfy the pre-requisite to STAT412

- GEOS339 Geographic Information Systems 8
- MARE322 Global Environmental Change 8
- MATH302 Differential Equations 3 6
- STS300 The Environmental Context 8
- STAT412 Mathematical Sciences Environmental Honours Project B 12
Course Structures

Plus either
BUSS111 Business Programming I 6
or
CSCI111 Computer Science IA 6

Plus two of
STAT471 Honours Topics in Statistics A 6
and
STAT472 Honours Topics in Statistics B 6
and
STAT474 Honours Topics in Statistics D 6

Statistics/Public Health Strand
(code MS32 - Statistics and Public Health)

1st Year
BIOL103 Molecules Cells and organisms 6
GEOS142 The Human Environment: Problems and Change 6
MATH187 Mathematics 1A Part 1 6
MATH188 Mathematics 1A Part 2 6
PHN103 Introduction to Public Health 6
SOC103 Aspects of Australian Society 6
STAT131 Understanding Variation and Uncertainty 6

and either
BUSS111 Business Programming I 6
or
CSCI111 Computer Science IA 6

2nd Year
GEOS242 Physical Environments 6
MATH201 Multivariate and Vector Calculus 6
MATH202 Differential Equations 2 6
MATH203 Linear Algebra 6
PHN203 Current Issues in Food and Nutrition 6
PHN205 Public Health: Issues and Concepts 6
STAT231 Probability and Random Variables 6
STAT232 Estimation and Hypothesis Testing 6

3rd Year
ECON317 Economics of Health Care 6
PHN330 Public Health Research Methods 8
STS323 Politics of Medicine and Health 8
MATH204 Complex Variables and Group Theory 8
STAT332 Multiple Regression and Time Series 6
STAT333 Statistical Inference and Multivariate Analysis 6
STAT335 Sample Surveys and Experimental Design 6

and for candidates entering the Honours program in year 4
STAT304 Operations Research and Applied Probability 6

4th Year (Non Honours Strand)
open to all candidates, but ineligible for the award of honours

STS300 The Environmental Context 8
GEOS349 Population, Health and Environment 8
PHIL380 Bioethics 8
MATH302 Differential Equations 3 6
STAT304 Differential Equations 3 6

and at least 6 credit points of 300-level MATH and/or STAT subjects.

and at least 6 credit points of MATH and/or STAT subjects, or an STS subject form the Arts Schedule.
4th Year (Honours Strand)

Entry to this program only available to candidates who have a WAM =67.5

PHIL380  Bioethics  8
MATH302  Differential Equations 3  6
STS300  The Environmental Context  8
STAT413  Mathematical Sciences Public Health Honours Project B  6

and two of

STAT471  Honours Topics in Statistics A  6
and

STAT472  Honours Topics in Statistics B  6
and

STAT473  Honours Topics in Statistics C  6
and

STAT474  Honours Topics in Statistics D  6

Bachelor of Mathematics and Economics

To qualify for the award of the degree of Bachelor of Mathematics and Economics a candidate shall satisfactorily complete at least 192 credit points of prescribed subjects, together with the requirements prescribed for this program.

Recommended Programs

The following programs of study are recommended to satisfy the requirements in minimum time. The subjects listed in the Recommended Programs are compulsory.

Year 1

ACCY100  Accounting 1A  6
ECON101  Macroeconomic Essentials for Business  6
ECON111  Introductory Microeconomics  6
MATH111  Applied Mathematical Modelling 1  6
MATH187  Mathematics 1A Part 1  6
MATH188  Mathematics 1A Part 2  6
STAT131  Understanding Variation and Uncertainty  6

Plus either

BUSS111  Business Programming I  6
or

CSCI111  Computer Science 1A  6

Year 2

ECON205  Macroeconomic Theory and Policy  8
ECON215  Microeconomic Theory and Policy  8
MATH201  Multivariate and Vector Calculus  6
MATH202  Differential Equations 2  6
MATH203  Linear Algebra  6

Plus at least 12 credit points of 200-level MATH and/or STAT subjects from the List of Electives, plus one 6 or 8 credit point ACCY or ECON subject from the list of electives.

Note: Statistics sub-majors are recommended to take STAT231, STAT232 and STAT332.

Year 3

ECON221  Econometrics  8
ECON322  Mathematical Economics  8
MATH302  Differential Equations 3  6
MATH317  Financial Calculus and Logistics  6

Plus either one 8 credit point 300-level ECON subject from the List of Electives or STAT232, plus choice of one 6 credit point 300-level MATH or STAT subject from list of electives, plus a further 6 or 8 credit point ACCY, BUSS or ECON subject from the list of electives.
Course Structures

Year 4 (Non Honours Strand)

ECON327 Advanced Econometrics 6
MGMT308 Introduction to Management for Professionals A 6

Plus either 16 credit points of 300-level ECON subjects from the List of Electives, or 8 credit points of 300-level ECON subjects from the List of Electives and STAT232.

Plus at least 24 credit points of 300- and/or 400-level INFO and/or MATH and/or STAT subjects from the List of Electives.

Year 4 (Honours Strand)

Entry to this program is restricted to candidates who satisfy the pre-requisite to INFO402

ECON327 Advanced Econometrics 8
MATH471 Honours Topics in Mathematics A (see Note 1) 6
MATH472 Honours Topics in Mathematics B (see Note 1) 6
INFO402 Mathematics and Economics Honours Project (see Note 2) 6
MGMT308 Introduction to Management for Professionals A 6

Plus at least 8 credit points of 300 ECON subjects from the List of Electives.

Plus at least 6 credit points of 300- or 400-level INFO and/or MATH and/or ECON and/or STAT subjects from the List of Electives.

Note 1: Enrolment in this subject is restricted to those candidates who have a WAM greater than or equal to 67.5 on satisfactory completion of 144 credit points of the course, or permission of the Head of the School of Mathematics and Applied Statistics.

Note 2: Enrolment in this subject is restricted to those candidates who have a WAM greater than or equal to 67.5 on satisfactory completion of 144 credit points of the course, or permission of Course Coordinator.

List of Electives

ACCY102 Accounting 1B 6
ACCY241 International Finance 6
BUSS110 Introduction to Business Information Systems 6
BUSS201 User- Centred Business Programming 6
BUSS211 Systems Analysis and Design 6
ECON207 Economic Policy 8
ECON301 Monetary Economics 8
ECON309 Environmental Economics 8
ECON310 Cost Benefit Analysis 8
ECON317 Economics of Health Care 8
ECON322 Mathematical Economics B 8
ECON331 Financial Economics 8
INFO411 Data Mining and Knowledge Discovery 6
INFO412 Mathematics for Cryptography 6
MATH204 Complex Variable and Group Theory 6
MATH212 Applied Mathematical Modelling 6
MATH222 Continuous and Discrete Mathematics 6
MATH305 Partial Differential Equations 6
MATH321 Numerical Analysis 6
MATH322 Algebra 6
MATH323 Topology and Chaos 6
MATH324 Analysis 6
MATH371 Special Topics in Industrial and Applied Mathematics 3 6
MATH372 Special Topics in Mathematical Analysis III 6
MATH473 Honours Topics in Mathematics C 6
MATH474 Honours Topics in Mathematics D 6
STAT231 Probability and Random Variables 6
STAT232 Estimation and Hypothesis Testing 6
STAT304 Operation Research and Applied Probability 6
STAT332 Multiple Regression and Time Series 6
STAT333 Statistical Inference and Multivariate Analysis 6
STAT335 Sample Surveys and Experimental Design 6
STAT373 Special Topics in Probability and Statistics 3 6
STAT471 Honours Topics in Statistics A 6
STAT472 Honours Topics in Statistics B 6
Bachelor of Mathematics and Finance

Requirements

To qualify for the award of the degree of Bachelor of Mathematics and Finance a candidate shall satisfactorily complete at least 192 credit points of prescribed subjects, together with the requirements prescribed for the program.

Of the 192 credit points

i) the subjects listed in the Recommended Programs are compulsory unless explicitly stated otherwise;

ii) at least 168 credit points shall be for MATH, STAT, ACCY, ECON and MGMT subjects;

iii) no more than 66 credit points shall be for 100-level subjects;

iv) for the non-Honours strand, at least 60 credit points shall be for 300- and/or 400-level subjects; including at least 24 credit points of MATH and STAT subjects and at least 24 credit points of ACCY subjects and

v) for the Honours strand, at least 72 credit points shall be for 300- and/or 400-level subjects, including at least 24 credit points of MATH and/or STAT subjects and at least 24 credit points of ACCY subjects. At least 36 of these 72 credit points shall be for 400-level subjects including at least one 6 credit point MATH or STAT subject.

Recommended Programs

The following programs of study are recommended to satisfy the requirements in minimum time.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>ACCY100</th>
<th>Accounting 1A</th>
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<tbody>
<tr>
<td></td>
<td>ACCY102</td>
<td>Accounting 1B</td>
<td>6</td>
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<td></td>
<td>ECON101</td>
<td>Macroeconomic Essentials for Business</td>
<td>6</td>
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<tr>
<td></td>
<td>MATH187</td>
<td>Mathematics 1A Part 1 (see Note 3)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MATH188</td>
<td>Mathematics 1A Part 2</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MATH111</td>
<td>Applied Mathematical Modelling 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>STAT131#</td>
<td>Understanding Variation and Uncertainty</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>BUS111</td>
<td>Business Programming I</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
</tbody>
</table>

Note 3: NSW HSC 2U Mathematics (at least 72 out of 100) or 3U Mathematics (at least 33 out of 50) or 4U Mathematics.

# Not compulsory, but still recommended. Students may select an alternative subject from the List of Electives or enrol in a compulsory subject from a later year of the program.

<table>
<thead>
<tr>
<th>Year 2</th>
<th>ACCY221</th>
<th>Business Finance 1</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECON111</td>
<td>Introductory Microeconomics</td>
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<td></td>
<td>MATH201</td>
<td>Multivariate and Vector Calculus</td>
<td>6</td>
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<tr>
<td></td>
<td>MATH202</td>
<td>Differential Equations 2</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ACCY223</td>
<td>Investments 1</td>
<td>6</td>
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<tr>
<td></td>
<td>STAT231</td>
<td>Probability and Random Variables</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>STAT232</td>
<td>Estimation and Hypothesis Testing</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of at least 6 credit points of subjects from the List of Electives

<table>
<thead>
<tr>
<th>Year 3</th>
<th>ACCY322</th>
<th>Business Finance 2</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACCY323</td>
<td>Investments 2</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ECON331</td>
<td>Financial Economics</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>MATH203</td>
<td>Linear Algebra</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MATH317</td>
<td>Financial Calculus and Logistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>STAT332</td>
<td>Multiple Regression and Time Series</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of at least 6 credit points of subjects from the List of Electives

<table>
<thead>
<tr>
<th>Year 4 (Non Honours Strand)</th>
<th>ACCY322</th>
<th>Business Finance 2</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACCY323</td>
<td>Investments 2</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ECON331</td>
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<td></td>
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<td>Linear Algebra</td>
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<tr>
<td></td>
<td>MATH317</td>
<td>Financial Calculus and Logistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>STAT332</td>
<td>Multiple Regression and Time Series</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of at least 6 credit points of subjects from the List of Electives
Course Structures

**Year 4 (Honours Strand)**

Entry to this program is restricted to candidates who satisfy the prerequisite to INFO401

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY407</td>
<td>Empirical Research Methods in Accounting</td>
<td>6</td>
</tr>
<tr>
<td>INFO401</td>
<td>Mathematics and Finance Honours Project (see Note 4)</td>
<td>12</td>
</tr>
</tbody>
</table>

Plus choice of at least 30 credit points of subjects from the List of Electives.

Note 4: Enrolment in this subject is restricted to those candidates who have a WAM greater than or equal to 67.5 on satisfactory completion of 144 credit points of the course.

**Spring session entry**

Spring session entry is possible: contact the School of Mathematics and Applied Statistics for a suggested program.

**List of Electives**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY201</td>
<td>Financial Accounting 2B</td>
<td>6</td>
</tr>
<tr>
<td>ACCY202</td>
<td>Financial Accounting 2A</td>
<td>6</td>
</tr>
<tr>
<td>ACCY226</td>
<td>Financial Institutions</td>
<td>6</td>
</tr>
<tr>
<td>ACCY324</td>
<td>Financial Statement Analysis</td>
<td>6</td>
</tr>
<tr>
<td>ACCY325</td>
<td>Banking Practice</td>
<td>6</td>
</tr>
<tr>
<td>ACCY327</td>
<td>Risk and Insurance</td>
<td>6</td>
</tr>
<tr>
<td>ACCY351</td>
<td>International Business Finance</td>
<td>6</td>
</tr>
<tr>
<td>ACCY359</td>
<td>Selected Issues in Finance</td>
<td>6</td>
</tr>
<tr>
<td>ACCY407</td>
<td>Empirical Research Methods in Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ACCY422</td>
<td>Investment Analysis</td>
<td>6</td>
</tr>
<tr>
<td>ACCY423</td>
<td>Investment Management</td>
<td>6</td>
</tr>
<tr>
<td>ACCY424</td>
<td>Corporate Financial Information Analysis</td>
<td>6</td>
</tr>
<tr>
<td>ACCY425</td>
<td>Banking Theory and Practice</td>
<td>6</td>
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<tr>
<td>ACCY426</td>
<td>Studies in Business Finance</td>
<td>6</td>
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<tr>
<td>ACCY487</td>
<td>Special Topic in Finance</td>
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<tr>
<td>BUSS110</td>
<td>Introduction to Business Information Systems</td>
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<tr>
<td>BUSS211</td>
<td>Systems Analysis and Design</td>
<td>6</td>
</tr>
<tr>
<td>BUSS212</td>
<td>Database Management Systems</td>
<td>6</td>
</tr>
<tr>
<td>CSCI102</td>
<td>Introduction to Information and Communication Technology B</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>CSCI235</td>
<td>Data Bases</td>
<td>6</td>
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<tr>
<td>ECON207</td>
<td>Economic Policy</td>
<td>8</td>
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<tr>
<td>ECON215</td>
<td>Microeconomic Theory and Policy</td>
<td>8</td>
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<tr>
<td>ECON216</td>
<td>International Trade Theory and Policy</td>
<td>8</td>
</tr>
<tr>
<td>ECON301</td>
<td>Monetary Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON307</td>
<td>International Monetary Economics</td>
<td>8</td>
</tr>
<tr>
<td>IACT201</td>
<td>Information Technology and Citizens' Rights</td>
<td>6</td>
</tr>
<tr>
<td>IACT423</td>
<td>IT and Small Business</td>
<td>6</td>
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<tr>
<td>INFO411</td>
<td>Data Mining and Knowledge Discovery</td>
<td>6</td>
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<tr>
<td>INFO412</td>
<td>Mathematics for Cryptography</td>
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<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
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<tr>
<td>LAW210</td>
<td>Law of Contracts</td>
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<tr>
<td>MATH121</td>
<td>Discrete Mathematics</td>
<td>6</td>
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<tr>
<td>MATH204</td>
<td>Complex Variables and Group Theory</td>
<td>6</td>
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<tr>
<td>MATH222</td>
<td>Continuous and Discrete Mathematics</td>
<td>6</td>
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<tr>
<td>MATH302</td>
<td>Differential Equations 3</td>
<td>6</td>
</tr>
<tr>
<td>MATH305</td>
<td>Partial Differential Equations</td>
<td>6</td>
</tr>
<tr>
<td>MATH321</td>
<td>Numerical Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MATH322</td>
<td>Algebra</td>
<td>6</td>
</tr>
<tr>
<td>MATH323</td>
<td>Topology and Chaos</td>
<td>6</td>
</tr>
<tr>
<td>MATH324</td>
<td>Analysis (This subject will only run in odd years: next in 2003)</td>
<td>6</td>
</tr>
<tr>
<td>MATH371</td>
<td>Special Topics in Industrial and Applied Mathematics 3</td>
<td>6</td>
</tr>
<tr>
<td>MATH372</td>
<td>Special Topics in Mathematical Analysis III</td>
<td>6</td>
</tr>
<tr>
<td>MATH471</td>
<td>Honours Topics in Mathematics A</td>
<td>6</td>
</tr>
<tr>
<td>MATH472</td>
<td>Honours Topics in Mathematics B</td>
<td>6</td>
</tr>
<tr>
<td>MGMT308</td>
<td>Introduction to Management for Professionals A</td>
<td>6</td>
</tr>
</tbody>
</table>
Bachelor of Engineering (Computer Engineering) - Bachelor of Arts

Course requirements
To qualify for award of the degrees of Bachelor of Engineering (Computer Engineering) and Bachelor of Arts a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Computer Engineering), (except the Computer Option) and having a value of 186 credit points; and
b) the requirements for the Bachelor of Arts.

To qualify for the award of the degree of Bachelor of Arts only, a candidate must satisfy requirements stipulated in Course rule 105.

Note: Normally a double degree program require students to complete 264 credit points, in some cases, however, depending upon the program of study chosen this number may be exceeded.

Generally, there is a minimum requirement of 72 credit points in subjects from the Arts Schedule for the BA. In most cases, however, students should expect to be required to take up to 90 credit points from the Arts Schedule.

Recommended Full-Time Program
The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the Faculty of Arts, offers a double degree course leading to the Bachelor of Engineering (Computer Engineering)-Bachelor of Arts. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional arts subjects with their studies in computer engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (CompEng),BA. It is a requirement of the BE (CompEng),BA that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Computer Engineering) Course.

All BE,BA students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

Year 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>
Course Structures

Note: MATH187 may be replaced by MATH141, MATH143 or MATH161; MATH188 may be replaced by MATH142, MATH144 or MATH162.

Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>ECTE202</td>
<td>Circuits and Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE212</td>
<td>Electronics and Communications</td>
<td>6</td>
</tr>
<tr>
<td>ECTE222</td>
<td>Power Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH283</td>
<td>Mathematics 2E for Engineers, Part 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 100/200-level Arts - 18 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

Year 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECTE250</td>
<td>Engineering Design and Management 2</td>
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<tr>
<td>ECTE333</td>
<td>Digital Hardware 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE344</td>
<td>Control Theory</td>
<td>6</td>
</tr>
<tr>
<td>ENGG291</td>
<td>Engineering Fundamentals</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 200/300-level Arts - 30 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

Year 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSCI205</td>
<td>Development Methods and Tools</td>
<td>6</td>
</tr>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
</tr>
<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
<td>6</td>
</tr>
<tr>
<td>ECTE363</td>
<td>Communication Theory</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 200/300-level Arts - 32 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

Year 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI311</td>
<td>Software Process Management</td>
<td>6</td>
</tr>
<tr>
<td>ECTE431</td>
<td>Real-time Computing</td>
<td>3</td>
</tr>
<tr>
<td>ECTE432</td>
<td>Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECTE457</td>
<td>Thesis</td>
<td>18</td>
</tr>
</tbody>
</table>

Plus 6 Final Year Specialisation Subjects

Plus choice of 300-level Arts - 8 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

Professional Experience

All BE,BA students must accumulate at least 12 weeks of approved professional engineering experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Computer Engineering) - Bachelor of Commerce

Course requirements

To qualify for award of the degrees of Bachelor of Engineering (Computer Engineering) and Bachelor of Commerce a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Computer Engineering), (except ECTE150 Engineering Design and Management 1, ECTE250 Engineering Design and Management 2 and the Computer Option) and having a value of 174 credit points; and

b) the requirements for the Bachelor of Commerce.

To qualify for the award of the degree of Bachelor of Commerce only, a candidate must satisfy requirements stipulated in Course rule 106.
Notes:

Normally a double degree program requires students to complete 264 credit points, in some cases, however, depending upon the program of study chosen this number may be exceeded.

Some Commerce Majors will be more than 90 credit points. To assist students to complete their program, some Commerce subjects are available in Summer Session. Students should consult the Calendar for details.

Recommended Full-Time Program

The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the Faculty of Commerce, offers a double degree course leading to the Bachelor of Engineering (Computer Engineering)-Bachelor of Commerce. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional commerce subjects with their studies in computer engineering. It is likely to be of particular interest to those students who wish to undertake a career in management. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (CompEng),BCom. It is a requirement of the BE (CompEng),BCom that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Computer Engineering) Course.

All BE,BCom students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

Year 1

<table>
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<tr>
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<th>Course Title</th>
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</tr>
</thead>
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<td>CSCI121</td>
<td>Computer Science 1B</td>
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<td>ECTE101</td>
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<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 100-level Commerce - 6 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Note: MATH187 may be replaced by MATH141, MATH143 or MATH161; MATH188 may be replaced by MATH142, MATH144 or MATH162.

Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE202</td>
<td>Circuits and Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE212</td>
<td>Electronics and Communications</td>
<td>6</td>
</tr>
<tr>
<td>ECTE222</td>
<td>Power Engineering 1</td>
<td>6</td>
</tr>
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<td>ECTE233</td>
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</tr>
<tr>
<td>MATH283</td>
<td>Mathematics 2E for Engineers, Part 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 100/200-level Commerce - 18 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.
Course Structures

Year 3
ECTE313  Electronics  6
ECTE333  Digital Hardware 2  6
ECTE344  Control Theory  6
ENGG291  Engineering Fundamentals  6
Plus choice of 200/300-level Commerce - 30 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Year 4
CSCI205  Development Methods and Tools  6
ECTE301  Digital Signal Processing 1  6
ECTE350  Engineering Design and Management 3  6
ECTE363  Communication Theory  6
Plus choice of 200/300-level Commerce - 30 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Year 5
CSCI311  Software Process Management  6
ECTE431  Real-time Computing  3
ECTE432  Computer Systems  3
ECTE457  Thesis  18
Plus 6 Final Year Specialisation Subjects
Plus choice of 300-level Commerce - 6 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Professional Experience
All BE,BCom students must accumulate at least 12 weeks of approved professional engineering experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Computer Engineering) - Bachelor of Mathematics

Course requirements
To qualify for award of the degrees of Bachelor of Engineering (Computer Engineering) and Bachelor of Mathematics a candidate must complete satisfactorily and independently each of (a) and (b) as follows:
a) all subjects prescribed for the Bachelor of Engineering (Computer Engineering), (except MATH283 Mathematics 2E for Engineers, Part 1 and replacing the Computer Option with an Informatics Option) and having a value of 192 credit points;
b) Requirements 2, 3, 6, 8(c) and 9, for the Bachelor of Mathematics, including no more than 18 credit points at 100-level.
To qualify for the award of the degree of Bachelor of Mathematics only, a candidate must satisfy requirements stipulated in Course Rule 108.

Recommended Full-Time Program
The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the School of Mathematics and Applied Statistics, offers a double degree course leading to the Bachelor of Engineering (Computer Engineering)-Bachelor of Mathematics. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional mathematics or statistics with their studies in computer engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.
With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (CompEng), BMath. It is a requirement of the BE (CompEng),BMath that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE - Computer Engineering Course.
All BE, BMath students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
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<table>
<thead>
<tr>
<th>Year 2</th>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
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<tr>
<td>or</td>
<td>CSCI213 Java Programming and the Internet</td>
<td>6</td>
</tr>
<tr>
<td>Plus</td>
<td>ECTE202 Circuits and Systems</td>
<td>6</td>
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<tr>
<td></td>
<td>ECTE212 Electronics and Communications</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ECTE222 Power Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ECTE233 Digital Hardware 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MATH201 Multivariate and Vector Calculus</td>
<td>6</td>
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<tr>
<td></td>
<td>MATH202 Differential Equations</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MATH203 Linear Algebra</td>
<td>6</td>
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<tr>
<td></td>
<td>MATH204 Complex Variables and Group Theory</td>
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<table>
<thead>
<tr>
<th>Year 3</th>
<th>Subject</th>
<th>Credits</th>
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<tr>
<td>ECTE250</td>
<td>Engineering Design and Management 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE333</td>
<td>Digital Hardware 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE344</td>
<td>Control Theory</td>
<td>6</td>
</tr>
<tr>
<td>ENGG291</td>
<td>Engineering Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td>STAT231</td>
<td>Probability and Random Variables</td>
<td>6</td>
</tr>
</tbody>
</table>

Choice of 200/300 level Mathematics or Statistics - 24 credit points. The choice of subjects will be constrained by the requirements for a BMath degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics.

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSCI205</td>
<td>Development Methods and Tools</td>
<td>6</td>
</tr>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
</tr>
<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
<td>6</td>
</tr>
<tr>
<td>ECTE363</td>
<td>Communication Theory</td>
<td>6</td>
</tr>
</tbody>
</table>

Choice of 300-level Mathematics or Statistics - 24 credit points. The choice of subjects will be constrained by the requirements for a BMath degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics.

<table>
<thead>
<tr>
<th>Year 5</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI311</td>
<td>Software Process Management</td>
<td>6</td>
</tr>
<tr>
<td>ECTE431</td>
<td>Real-time Computing</td>
<td>3</td>
</tr>
<tr>
<td>ECTE432</td>
<td>Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECTE457</td>
<td>Thesis</td>
<td>18</td>
</tr>
</tbody>
</table>

Plus 6 Final Year Specialisation Subjects

Plus Informatics Option
Informatics Option

Year 5:

With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER
   (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
   (ii) the School of Mathematics and Applied Statistics Mathematics (MATH or STAT).

OR

(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

Professional Experience

All BE.BMath students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Computer Engineering) - Bachelor of Science

Course requirements

To qualify for award of the degrees of Bachelor of Engineering (Computer Engineering) and Bachelor of Science a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Computer Engineering), (replacing MATH283 Mathematics 2E for Engineers, Part 1 with MATH201 Multivariate and Vector Calculus and MATH202 Differential Equations and replacing the Computer Option with an Informatics Option and having a value of 204 credit points;

b) Requirements for the Bachelor of Science or the Bachelor of Science (Physics).

To qualify for the award of the degree of Bachelor of Science or Bachelor of Science (Physics) only, a candidate must satisfy requirements stipulated in Course Rule 109.

Recommended Full-Time Program

The School of Electrical, Computer and Telecommunications Engineering in conjunction with the Department of Engineering Physics and the Faculty of Science offers a double degree course leading to the Bachelor of Engineering (Computer Engineering)-Bachelor of Science. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional science with their studies in computer engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of Engineering Physics, or the Sub-Dean, Faculty of Science, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (CompEng),BSc. It is a requirement of the BE (CompEng),BSc that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Computer Engineering) Course.

All BE,BSc students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.
### Year 1
- CSCI111 Computer Science 1A 6
- CSCI121 Computer Science 1B 6
- ECTE101 Electrical Engineering 1 6
- ECTE150 Engineering Design and Management 1 6
- MATH187 Mathematics 1A, Part 1 6
- MATH188 Mathematics 1A, Part 2 6
- PHYS141 Fundamentals of Physics A 6
- PHYS142 Fundamentals of Physics B 6

### Year 2
- CSCI204 Programming: The C Family and Unix 6
  or
- CSCI213 Java Programming and the Internet 6
  Plus
- ECTE202 Circuits and Systems 6
- ECTE212 Electronics and Communications 6
- ECTE222 Power Engineering 1 6
- ECTE233 Digital Hardware 1 6
- MATH201 Multivariate and Vector Calculus 6
- MATH202 Differential Equations 6

Choice of 100/200-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

### Year 3
- ECTE250 Engineering Design and Management 2 6
- ECTE333 Digital Hardware 2 6
- ECTE344 Control Theory 6
- ENGG291 Engineering Fundamentals 6
- STAT231 Probability and Random Variables 6

Choice of 200/300-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

### Year 4
- CSCI205 Development Methods and Tools 6
- ECTE301 Digital Signal Processing 1 6
- ECTE313 Electronics 6
- ECTE350 Engineering Design and Management 3 6
- ECTE363 Communication Theory 6

Choice of 300-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

### Year 5
- CSCI311 Software Process Management 6
- ECTE431 Real-time Computing 3
- ECTE432 Computer Systems 3
- ECTE457 Thesis 18

Plus 6 Final Year Specialisation Subjects

Plus Informatics Option
Informatics Option

Year 5:

With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER
   (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
   (ii) the School of Mathematics and Applied Statistics Mathematics (MATH or STAT).

OR

(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

Professional Experience

All BE,BSc students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Electrical Engineering) - Bachelor of Arts

Course requirements

To qualify for award of the degrees of Bachelor of Engineering (Electrical Engineering) and Bachelor of Arts a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Electrical Engineering), (except the Electrical Option) and having a value of 186 credit points; and

b) the requirements for the Bachelor of Arts.

To qualify for the award of the degree of Bachelor of Arts only, a candidate must satisfy requirements stipulated in Course rule 105.

Note:

Normally a double degree program require students to complete 264 credit points, in some cases, however, depending upon the program of study chosen this number may be exceeded.

Generally, there is a minimum requirement of 72 credit points in subjects from the Arts Schedule for the BA. In most cases, however, students should expect to be required to take up to 90 credit points from the Arts Schedule.

Recommended Full-Time Program

The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the Faculty of Arts, offers a double degree course leading to the Bachelor of Engineering (Electrical Engineering)-Bachelor of Arts. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional arts subjects with their studies in computer engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (ElecEng),BA. It is a requirement of the BE (ElecEng),BA that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Electrical Engineering) Course.

All BE,BA students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.
As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

<table>
<thead>
<tr>
<th>Year</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

Note: MATH187 may be replaced by MATH141, MATH143 or MATH161; MATH188 may be replaced by MATH142, MATH144 or MATH162.

<table>
<thead>
<tr>
<th>Year</th>
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<th>Subject Name</th>
<th>Credits</th>
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</thead>
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<tr>
<td>2</td>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>CSCI213 Java Programming and the Internet</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Plus</td>
<td>ECTE202 Circuits and Systems</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECTE212 Electronics and Communications</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECTE222 Power Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECTE233 Digital Hardware 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH283 Mathematics 2E for Engineers, Part 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 100/200-level Arts - 18 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

<table>
<thead>
<tr>
<th>Year</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ECTE250</td>
<td>Engineering Design and Management 2</td>
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<td></td>
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<td>6</td>
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<td></td>
<td>ECTE344</td>
<td>Control Theory</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ENGG291</td>
<td>Engineering Fundamentals</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 200/300-level Arts - 30 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

<table>
<thead>
<tr>
<th>Year</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
</tr>
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<td></td>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
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<tr>
<td></td>
<td>ECTE323</td>
<td>Power Engineering 2</td>
<td>6</td>
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<td></td>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ECTE363</td>
<td>Communication Theory</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 200/300-level Arts - 32 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

<table>
<thead>
<tr>
<th>Year</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
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<td>Thesis</td>
<td>18</td>
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</tbody>
</table>

Plus 10 Final Year Specialisation Subjects

Plus choice of 300-level Arts - 8 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

**Professional Experience**

All BE, BA students must accumulate at least 12 weeks of approved professional engineering experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.
Course Structures

Bachelor of Engineering (Electrical Engineering) - Bachelor of Commerce

Course requirements
To qualify for award of the degrees of Bachelor of Engineering (Electrical Engineering) and Bachelor of Commerce a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Electrical Engineering), (except ECTE150 Engineering Design and Management 1, ECTE250 Engineering Design and Management 2 and the Electrical Option) and having a value of 174 credit points; and

b) the requirements for the Bachelor of Commerce.

To qualify for the award of the degree of Bachelor of Commerce only, a candidate must satisfy requirements stipulated in Course rule 106.

Notes:
Normally a double degree program require students to complete 264 credit points, in some cases, however, depending upon the program of study chosen this number may be exceeded.

Some Commerce Majors will be more than 90 credit points.

To assist students to complete their program, some Commerce subjects are available in Summer Session. Students should consult the Calendar for details.

Recommended Full-Time Program
The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the Faculty of Commerce, offers a double degree course leading to the Bachelor of Engineering (Electrical Engineering)-Bachelor of Commerce. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional commerce subjects with their studies in computer engineering. It is likely to be of particular interest to those students who wish to undertake a career in management. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (ElecEng),BCom. It is a requirement of the BE (ElecEng),BCom that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Electrical Engineering) Course.

All BE,BCom students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

Year 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
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<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 100-level Commerce - 6 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Note: MATH187 may be replaced by MATH141, MATH143 or MATH161; MATH188 may be replaced by MATH142, MATH144 or MATH162.
Year 2
CSCI204 Programming: The C Family and Unix 6
or
CSCI213 Java Programming and the Internet 6
Plus
ECTE202 Circuits and Systems 6
ECTE212 Electronics and Communications 6
ECTE222 Power Engineering 1 6
EC I E233 Digital Hardware 1 6
MATH283 Mathematics 2E for Engineers, Part 1 6

Plus choice of 100/200-level Commerce - 18 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Year 3
ECTE313 Electronics 6
ECTE333 Digital Hardware 2 6
ECTE344 Control Theory 6
ENGG291 Engineering Fundamentals 6

Plus choice of 200/300-level Commerce - 30 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Year 4
ECTE301 Digital Signal Processing 1 6
ECTE323 Power Engineering 2 6
ECTE350 Engineering Design and Management 3 6
ECTE363 Communication Theory 6

Plus choice of 200/300-level Commerce - 30 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Year 5
ECTE457 Thesis 18

Plus 10 Final Year Specialisation Subjects

Plus choice of 300-level Commerce - 6 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Professional Experience
All BE,BCom students must accumulate at least 12 weeks of approved professional engineering experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Electrical Engineering) - Bachelor of Mathematics

Course requirements
To qualify for award of the degrees of Bachelor of Engineering (Electrical Engineering)-Bachelor of Mathematics a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Electrical Engineering) (except MATH283 Mathematics 2E for Engineers, Part 1 and replacing the Electrical Option with an Informatics Option) and having a value of 192 credit points;
b) Requirements 2, 3, 6, 8(c) and 9, for the Bachelor of Mathematics, including no more than 18 credit points at 100-level.

To qualify for the award of the degree of Bachelor of Mathematics only, a candidate must satisfy requirements stipulated in Course Rule 108.

Recommended Full-Time Program
The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the School of Mathematics and Applied Statistics, offers a double degree course leading to the Bachelor of Engineering (Electrical Engineering)-Bachelor of Mathematics. The program, which may be completed in five years of full-time study, offers the opportunity for students to
Course Structures

include additional mathematics or statistics with their studies in electrical engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (ElecEng),BMath. It is a requirement of the BE (ElecEng),BMath that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Electrical Engineering) Course.

All BE,BMath students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

Year 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CSCI111</td>
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<td>CSCI121</td>
<td>Computer Science 1B</td>
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<td>ECTE101</td>
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<td>ECTE150</td>
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<td>Mathematics 1A, Part 2</td>
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Year 2

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<th>Course Title</th>
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<td>or</td>
<td>CSCI213</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Java Programming and the Internet</td>
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<td></td>
<td>Plus</td>
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<td>ECTE202</td>
<td>Circuits and Systems</td>
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<td>ECTE212</td>
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<td>ECTE222</td>
<td>Power Engineering 1</td>
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<td>ECTE233</td>
<td>Digital Hardware 1</td>
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<td>MATH201</td>
<td>Multivariate and Vector Calculus</td>
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<td>Differential Equations</td>
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<td>MATH203</td>
<td>Linear Algebra</td>
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Year 3

<table>
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<td>ECTE344</td>
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<td>ENGG291</td>
<td>Engineering Fundamentals</td>
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</tr>
<tr>
<td>STAT231</td>
<td>Probability and Random Variables</td>
<td>6</td>
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</table>

Choice of 200/300 level Mathematics or Statistics - 24 credit points. The choice of subjects will be constrained by the requirements for a BMath degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics.

Year 4

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
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<tr>
<td>ECTE313</td>
<td>Electronics</td>
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</tr>
<tr>
<td>ECTE323</td>
<td>Power Engineering 2</td>
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<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
<td>6</td>
</tr>
</tbody>
</table>
ECTE363 Communication Theory 6

Choice of 300-level Mathematics or Statistics - 24 credit points. The choice of subjects will be constrained by the requirements for a BMath degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics.

Year 5
ECTE457 Thesis 18

Plus 10 Final Year Specialisation Subjects

Plus Informatics Option

Informatics Option

Year 5:

With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
   (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
   (ii) the School of Mathematics and Applied Statistics Mathematics (MATH or STAT).

OR

(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

Professional Experience

All BE,BMath students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Electrical Engineering) - Bachelor of Science

Course requirements

To qualify for award of the degrees of Bachelor of Engineering - Electrical Engineering-Bachelor of Science a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Electrical Engineering), (replacing MATH283 Mathematics 2E for Engineers, Part 1 with MATH201 Multivariate and Vector Calculus and MATH202 Differential Equations and replacing the Electrical Option with an Informatics Option) and having a value of 204 credit points;

b) Requirements for the Bachelor of Science or the Bachelor of Science (Physics).

To qualify for the award of the degree of Bachelor of Science and Bachelor of Science (Physics) only, a candidate must satisfy requirements stipulated in Course Rule 109.

Recommended Full-Time Program

The School of Electrical, Computer and Telecommunications Engineering in conjunction with the Department of Engineering Physics and the Faculty of Science offers a double degree course leading to the Bachelor of Engineering (Electrical Engineering)-Bachelor of Science. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional science with their studies in electrical engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the SubDean, Faculty of Science, students who have completed the recommended first year program of the Bachelor of Engineering - Computer Engineering or Electrical Engineering or Telecommunications Engineering course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (ElecEng),BSc. It is a requirement of the BE (ElecEng),BSc that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Electrical Engineering) Course.

All BE,BSc students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will
be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

**Year 1**

- **CSCI111** Computer Science 1A  
- **CSCI121** Computer Science 1B  
- **ECTE101** Electrical Engineering 1  
- **ECTE150** Engineering Design and Management 1  
- **MATH187** Mathematics 1A, Part 1  
- **MATH188** Mathematics 1A, Part 2  
- **PHYS141** Fundamentals of Physics A  
- **PHYS142** Fundamentals of Physics B  

**Year 2**

- **CSCI204** Programming: The C Family and Unix  
- **or**  
- **CSCI213** Java Programming and the Internet  
- **Plus**  
- **ECTE202** Circuits and Systems  
- **ECTE212** Electronics and Communications  
- **ECTE222** Power Engineering 1  
- **ECTE233** Digital Hardware 1  
- **MATH201** Multivariate and Vector Calculus  
- **MATH202** Differential Equations  

Choice of 100/200-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

**Year 3**

- **ECTE250** Engineering Design and Management 2  
- **ECTE333** Digital Hardware 2  
- **ECTE344** Control Theory  
- **ENGG291** Engineering Fundamentals  
- **STAT231** Probability and Random Variables  

Choice of 200/300-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

**Year 4**

- **ECTE301** Digital Signal Processing 1  
- **ECTE313** Electronics  
- **ECTE323** Power Engineering 2  
- **ECTE350** Engineering Design and Management 3  
- **ECTE363** Communication Theory  

Choice of 300-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

**Year 5**

- **ECTE457** Thesis  
- **Plus 10 Final Year Specialisation Subjects**  
- **Plus Informatics Option**
Informatics Option

Year 5:
With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:

(i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
(ii) the School of Mathematics and Applied Statistics Mathematics (MATH or STAT).

OR

(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling

Professional Experience

All BE,BSc students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Arts

Course requirements
To qualify for award of the degrees of Bachelor of Engineering (Telecommunications Engineering) and Bachelor of Arts a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Telecommunications Engineering), (except one Telecommunications Option and replacing one Telecommunications Option with an Informatics Option) and having a value of 186 credit points; and

b) the requirements for the Bachelor of Arts.

To qualify for the award of the degree of Bachelor of Arts only, a candidate must satisfy requirements stipulated in Course rule 105.

Note:

Normally a double degree program require students to complete 264 credit points, in some cases, however, depending upon the program of study chosen this number may be exceeded.

Generally, there is a minimum requirement of 72 credit points in subjects from the Arts Schedule for the BA. In most cases, however, students should expect to be required to take up to 90 credit points from the Arts Schedule.

Recommended Full-Time Program

The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the Faculty of Arts, offers a double degree course leading to the Bachelor of Engineering (Telecommunications Engineering)-Bachelor of Arts. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional arts subjects with their studies in computer engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (TeleEng),BA. It is a requirement of the BE (TeleEng),BA that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Telecommunications Engineering) Course.

All BE,BA students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.
Course Structures

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

Year 1

<table>
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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
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<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
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<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
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<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
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<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
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<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
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<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
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Note: MATH187 may be replaced by MATH141, MATH143 or MATH161; MATH188 may be replaced by MATH142, MATH144 or MATH162.

Year 2

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<th>Course Code</th>
<th>Course Title</th>
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<td>CSCI204</td>
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<tr>
<td>or</td>
<td>CSCI213</td>
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<tr>
<td></td>
<td>Java Programming and the Internet</td>
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<td>Plus</td>
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<td>Circuits and Systems</td>
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Plus choice of 100/200-level Arts - 18 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

Year 3

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<td>Control Theory</td>
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<td>ENGG291</td>
<td>Engineering Fundamentals</td>
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Plus choice of 200/300-level Arts - 30 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

Year 4

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
</tr>
<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
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<tr>
<td>ECTE363</td>
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<td>ECTE364</td>
<td>Telecommunication Networks 1</td>
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</table>

Plus choice of 200/300-level Arts - 32 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

Year 5

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<td>ECTE461</td>
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<td>ECTE462</td>
<td>Telecommunications System Modelling</td>
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</table>

Plus Informatics Option

Plus 6 Final Year Specialisation Subjects

Choice of 300-level Arts - 8 credit points. The choice of subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

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Informatics Option

Year 5:
With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
   (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
   (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE 291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

Professional Experience

All BE,BA students must accumulate at least 12 weeks of approved professional engineering experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Commerce

Course requirements
To qualify for award of the degrees of Bachelor of Engineering (Telecommunications Engineering) and Bachelor of Commerce a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Telecommunications Engineering), (except ECTE150 Engineering Design and Management 1, ECTE250 Engineering Design and Management 2 and one Telecommunications Option and replacing one Telecommunications Option with an Informatics Option) and having a value of 174 credit points; and

b) the requirements for the Bachelor of Commerce.

To qualify for the award of the degree of Bachelor of Commerce only, a candidate must satisfy requirements stipulated in Course rule 106.

Notes:
Normally a double degree program require students to complete 264 credit points, in some cases, however, depending upon the program of study chosen this number may be exceeded.

Some Commerce Majors will be more than 90 credit points. To assist students to complete their program, some Commerce subjects are available in Summer Session. Students should consult the Calendar for details.

Recommended Full-Time Program
The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the Faculty of Commerce, offers a double degree course leading to the Bachelor of Engineering (Telecommunications Engineering)-Bachelor of Commerce. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional commerce subjects with their studies in computer engineering. It is likely to be of particular interest to those students who wish to undertake a career in management. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (TeleEng),BCom. It is a requirement of the BE (TeleEng),BCom that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Telecommunications Engineering) Course.

All BE,BCom students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.
Course Structures

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

Year 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 100-level Commerce - 6 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Note: MATH187 may be replaced by MATH141, MATH143 or MATH161; MATH188 may be replaced by MATH142, MATH144 or MATH162.

Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCI213</td>
<td>Java Programming and the Internet</td>
<td>6</td>
</tr>
<tr>
<td>Plus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECTE202</td>
<td>Circuits and Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE212</td>
<td>Electronics and Communications</td>
<td>6</td>
</tr>
<tr>
<td>ECTE222</td>
<td>Power Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH283</td>
<td>Mathematics 2E for Engineers, Part 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 100/200-level Commerce - 18 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Year 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
</tr>
<tr>
<td>ECTE333</td>
<td>Digital Hardware 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE344</td>
<td>Control Theory</td>
<td>6</td>
</tr>
<tr>
<td>ENGG291</td>
<td>Engineering Fundamentals</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 200/300-level Commerce - 30 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Year 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
<td>6</td>
</tr>
<tr>
<td>ECTE363</td>
<td>Communication Theory</td>
<td>6</td>
</tr>
<tr>
<td>ECTE364</td>
<td>Telecommunication Networks 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus choice of 200/300-level Commerce - 30 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

Year 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE457</td>
<td>Thesis</td>
<td>18</td>
</tr>
<tr>
<td>ECTE461</td>
<td>Telecommunications Queueing Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECTE462</td>
<td>Telecommunications System Modelling</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus Informatics Option

Plus 6 Final Year Specialisation Subjects

Choice of 300-level Commerce - 6 credit points. The choice of subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.
Informatics Option

Year 5:
With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
   (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
   (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR
(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE 291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

Professional Experience

All BE,BCom students must accumulate at least 12 weeks of approved professional engineering experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Mathematics

Course requirements

To qualify for award of the degrees of Bachelor of Engineering (Telecommunications Engineering)-Bachelor of Mathematics a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed for the Bachelor of Engineering (Telecommunications Engineering), (except MATH283 Mathematics 2E for Engineers, Part 1 and replacing the Telecommunications Options with Informatics Options) and having a value of 192 credit points;

b) Requirements 2, 3, 6, 8(c) and 9 for the Bachelor of Mathematics, including no more than 18 credit points at 100-level.

To qualify for the award of the degree of Bachelor of Mathematics only, a candidate must satisfy requirements stipulated in Course Rule 108.

Recommended Full-Time Program

The School of Electrical, Computer and Telecommunications Engineering, in conjunction with the School of Mathematics and Applied Statistics, offers a double degree course leading to the Bachelor of Engineering (Telecommunications Engineering)-Bachelor of Mathematics. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional mathematics or statistics with their studies in telecommunications engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (TeleEng),BMath. It is a requirement of the BE (TeleEng),BMath that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Telecommunications Engineering) Course.

All BE,BMath students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.
### Course Structures

#### Year 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>ECTE101</td>
<td>Electrical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE150</td>
<td>Engineering Design and Management 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics 1A, Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics 1A, Part 2</td>
<td>6</td>
</tr>
<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Year 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td>CSCI213</td>
<td>Java Programming and the Internet</td>
</tr>
<tr>
<td>ECTE202</td>
<td>Circuits and Systems</td>
<td>6</td>
</tr>
<tr>
<td>ECTE212</td>
<td>Electronics and Communications</td>
<td>6</td>
</tr>
<tr>
<td>ECTE222</td>
<td>Power Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE233</td>
<td>Digital Hardware 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH201</td>
<td>Multivariate and Vector Calculus</td>
<td>6</td>
</tr>
<tr>
<td>MATH202</td>
<td>Differential Equations</td>
<td>6</td>
</tr>
<tr>
<td>MATH203</td>
<td>Linear Algebra</td>
<td>6</td>
</tr>
<tr>
<td>MATH204</td>
<td>Complex Variables and Group Theory</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Year 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE250</td>
<td>Engineering Design and Management 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE333</td>
<td>Digital Hardware 2</td>
<td>6</td>
</tr>
<tr>
<td>ECTE344</td>
<td>Control Theory</td>
<td>6</td>
</tr>
<tr>
<td>ENGG291</td>
<td>Engineering Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td>STAT231</td>
<td>Probability and Random Variables</td>
<td>6</td>
</tr>
</tbody>
</table>

Choice of 200/300-level Mathematics or Statistics - 24 credit points. The choice of subjects will be constrained by the requirements for a BMath degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics.

#### Year 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE301</td>
<td>Digital Signal Processing 1</td>
<td>6</td>
</tr>
<tr>
<td>ECTE313</td>
<td>Electronics</td>
<td>6</td>
</tr>
<tr>
<td>ECTE350</td>
<td>Engineering Design and Management 3</td>
<td>6</td>
</tr>
<tr>
<td>ECTE383</td>
<td>Communication Theory</td>
<td>6</td>
</tr>
<tr>
<td>ECTE364</td>
<td>Telecommunication Networks 1</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus Informatics Option

Choice of 300-level Mathematics or Statistics - 24 credit points. The choice of subjects will be constrained by the requirements for a BMath degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics.

#### Year 5

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTE457</td>
<td>Thesis</td>
<td>18</td>
</tr>
<tr>
<td>ECTE461</td>
<td>Telecommunications Queuing Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECTE462</td>
<td>Telecommunications System Modelling</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus 6 Final Year Specialisation Subject

Plus Informatics Option
Informatics Option

Year 5:
With the approval of the Head of School, students may select:

(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
   (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
   (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE 291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

Professional Experience
All BE, BMath students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Science

Course requirements
To qualify for award of the degrees of Bachelor of Engineering (Telecommunications Engineering)-Bachelor of Science a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

a) all subjects prescribed by the Bachelor of Engineering (Telecommunications Engineering), (replacing MATH283 Mathematics 2E for Engineers, Part 1 with MATH201 Multivariate and Vector Calculus and MATH202 Differential Equations and replacing the Telecommunications Options with Informatics Options) and having a value of 204 credit points;

b) Requirements for the Bachelor of Science or Bachelor of Science (Physics).

To qualify for the award of the degree of Bachelor of Science only, a candidate must satisfy requirements stipulated in Course Rule 208.

Recommended Full-Time Program
The School of Electrical, Computer and Telecommunications Engineering in conjunction with the Department of Engineering Physics and the Faculty of Science offers a double degree course leading to the Bachelor of Engineering (Telecommunications Engineering)-Bachelor of Science. The program, which may be completed in five years of full-time study, offers the opportunity for students to include additional science with their studies in telecommunications engineering. It is likely to be of particular interest to those students who wish to undertake a career in research. The BE degree with Honours is awarded for meritorious performance over the course and particularly in the final year. The classes of honours awarded are defined in the Course Rules.

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE (TeleEng),BSc. It is a requirement of the BE (TeleEng),BSc that all students enrolled maintain this level of achievement throughout the course or they will be transferred to the BE (Telecommunications Engineering) Course.

All BE,BSc students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.
### Year 1
- CSCI111 Computer Science 1A 6
- CSCI121 Computer Science 1B 6
- ECTE101 Electrical Engineering 1 6
- ECTE150 Engineering Design and Management 1 6
- MATH187 Mathematics 1A, Part 1 6
- MATH188 Mathematics 1A, Part 2 6
- PHYS141 Fundamentals of Physics A 6
- PHYS142 Fundamentals of Physics B 6

### Year 2
- CSCI204 Programming: The C Family and Unix 6
  or
- CSCI213 Java Programming and the Internet 6
  Plus
- ECTE202 Circuits and Systems 6
- ECTE212 Electronics and Communications 6
- ECTE222 Power Engineering 1 6
- ECTE233 Digital Hardware 1 6
- MATH201 Multivariate and Vector Calculus 6
- MATH202 Differential Equations 6

Choice of 100/200-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

### Year 3
- ECTE250 Engineering Design and Management 2 6
- ECTE333 Digital Hardware 2 6
- ECTE344 Control Theory 6
- ENGG291 Engineering Fundamentals 6
- STAT231 Probability and Random Variables 6

Choice of 200/300-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

### Year 4
- ECTE301 Digital Signal Processing 1 6
- ECTE313 Electronics 6
- ECTE350 Engineering Design and Management 3 6
- ECTE383 Communication Theory 6
- ECTE364 Telecommunication Networks 1 6

Choice of 300-level Science - 24 credit points. The choice of subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the Department of Engineering Physics or the Sub-Dean, Faculty of Science.

### Year 5
- ECTE457 Thesis 18
- ECTE461 Telecommunications Queueing Theory 3
- ECTE462 Telecommunications System Modelling 3

Plus 6 Final Year Specialisation Subject

Plus 2 Informatics Options
Informatics Option

Year 5:
With the approval of the Head of School, students may select:
(a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
   (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
   (ii) the School of Mathematics and Applied Statistics (MATH or STAT)
OR
(b) one of the following four subjects: ECTE281 Embedded Internet Systems, ECTE 291 Internet Systems, ECTE292 Internet Technology 2, ECTE392 Wireless Internet.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

Professional Experience
All BE,BSc students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between fourth and fifth years.

Bachelor of Engineering (Civil, Environmental, Materials, Mechanical, Mechatronics, Mining) - Bachelor of Computer Science
Refer to the Faculty of Engineering section for details of this double degree program.

Bachelor of Engineering (Civil, Environmental, Materials, Mechanical, Mechatronics, Mining)- Bachelor of Mathematics
Refer to the Faculty of Engineering section for details of this double degree program.

Bachelor of Mathematics - Bachelor of Laws
Refer to the Faculty of Law section for details of this double degree program.

Bachelor of Mathematics - Bachelor of Computer Science

Requirements
To qualify for the award of the degrees of Bachelor of Mathematics and Bachelor of Computer Science by joint registration a candidate shall satisfactorily complete the subjects and the credit points as prescribed, and, in so doing, satisfy the requirements of Course Rules 108 and 107 for the Bachelor of Mathematics and the Bachelor of Computer Science, respectively.

Minimum Performance Requirement
Candidates must maintain a weighted average mark (WAM) of at least 65 at the end of each year otherwise they must show cause as to why they should be permitted to remain registered for the two courses jointly.

Candidates who, at the end of any year of registration, have satisfied the requirements of Course Rule 011, but who do not have a WAM of at least 65 and who have not given adequate reason as to why they should be permitted to continue with registration for the double degree, will be required to transfer into either a Bachelor of Mathematics or a Bachelor Computer Science, the choice being that of each such candidate.

Program of Study
The following program of study is recommended to satisfy the requirements in minimum time.

Year 1
Year total: 48 credit points
CSCI101 Introduction to Information Technology A 6
CSCI111 Computer Science 1A 6
CSCI121 Computer Science 1B 6
MATH187 Mathematics 1A Part 1 6
Course Structures

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH188</td>
<td>Mathematics 1A Part 2</td>
<td>6</td>
</tr>
<tr>
<td>MATH111</td>
<td>Applied Mathematical Modelling</td>
<td>6</td>
</tr>
<tr>
<td>MATH121</td>
<td>Discrete Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>STAT131</td>
<td>Understanding Variation and Uncertainty</td>
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</table>

Year 2

Year total: 60 credit points

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>MATH201</td>
<td>Multivariate and Vector Calculus</td>
<td>6</td>
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<tr>
<td>MATH202</td>
<td>Differential Equations 2</td>
<td>6</td>
</tr>
<tr>
<td>and any two of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH212</td>
<td>Applied Mathematical Modelling 2</td>
<td>6</td>
</tr>
<tr>
<td>MATH222</td>
<td>Continuous and Finite mathematics</td>
<td>6</td>
</tr>
<tr>
<td>STAT231</td>
<td>Probability and Random Variables</td>
<td>6</td>
</tr>
<tr>
<td>STAT232</td>
<td>Estimation and Hypothesis Testing</td>
<td>6</td>
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<td>and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCI203</td>
<td>Data Structures, Algorithms, Systems</td>
<td>6</td>
</tr>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
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<td>CSCI205</td>
<td>Development Methods and Tools</td>
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<td>and</td>
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<tr>
<td>CSCI212</td>
<td>Operating Systems</td>
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<tr>
<td>CSCI235</td>
<td>Data Bases</td>
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<tr>
<td>IACT201#</td>
<td>Information Technology and Citizens' Rights</td>
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<tr>
<td>CSCI102*</td>
<td>Introduction to Information Technology B</td>
<td>6</td>
</tr>
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</table>

# May be taken in year 3, in lieu of 6 credit points of 200- or 300-level subjects, and replaced in year 2 by 6 credit points of 100- or 200-level subjects.

* CSCI102 not to count with IACT101.

Year 3

Year total: 60 credit points

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>MATH203</td>
<td>Linear Algebra</td>
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</tr>
<tr>
<td>MATH204</td>
<td>Complex Variables and Group Theory</td>
<td>6</td>
</tr>
<tr>
<td>CSCI213</td>
<td>JAVA Programming and the Internet</td>
<td>6</td>
</tr>
<tr>
<td>and any 12 credit points of 300-level Mathematics subjects,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and any 6 credit points 200-level Computer Science subjects,</td>
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</tr>
<tr>
<td>and any 12 credit points 300-level Computer Science subjects,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and any 12 credit point of 200- or 300-level General Schedule subjects.</td>
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</tr>
</tbody>
</table>

Year 4

Year total: 48 credit points

24 credit points of 300-level Mathematics subjects

and

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI321</td>
<td>Project</td>
<td>12</td>
</tr>
<tr>
<td>and 12 credit points of 300-level Computer Science subjects.</td>
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</tr>
</tbody>
</table>

Honours

Candidates may apply to register for either, or consecutively, both the Bachelor of Mathematics (Honours) or the Bachelor of Computer Science (Honours) after the satisfactory completion of the double degree program.
Bachelor of Creative Arts-Bachelor of Computer Science

To qualify for award of the DOUBLE degree of Bachelor of Creative Arts - Bachelor of Computer Science, a candidate must satisfactorily complete at least 216 credit points from the Computer Science course structure, the Creative Arts Schedule and the General Schedule.

The 216 credit points must include:

- no more than 96 credit points at 100 level;
- no more than 36 credit points (i.e. 1/6) of subjects at PC grade.

The 108 credit points for Creative Arts must include:

- a major study for the Bachelor of Creative Arts comprising 108 credit points of compulsory subjects as listed in the Bachelor of Creative Arts course structure.

The 108 credit points for Computer Science must include:

- at least 36 credit points of 300-level subjects of which 24 credit points must be CSCI subjects, including CSCI321; 24 credit points at 300-level must be at pass grade or better;
- 90 credit points of Computer Science subjects;
- elective subjects from Computer Science course structure, the Creative Arts Schedule or the General Schedule to the value of at least 18 credit points

The following program of study is recommended for students holding a NSW HSC 2 Unit (with a mark of 60 or better) or 3 unit Computing Studies or equivalent. To satisfy the requirements in minimum time the following subjects should be taken:

**Year 1**

CSCI111 Computer Science 1A 6
CSCI121 Computer Science 1B 6
Plus up to 36 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.

**Year 2**

CSCI204 Programming: The C Family and Unix 6
MATH122 Probability and Logic 6
CSCI102 Introduction to Information Technology B 6
CSCI213 JAVA Programming and The Internet 6
Plus 12 credit points selected from the Computer Science course structure* 6
Plus up to 24 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.

**Year 3**

36 credit points selected from the Computer Science course structure* (Noting that CSCI336 Computer Graphics is required for the students enrolled in the Visual or Graphic Arts Studies programme in the Creative Arts degree.) 6
Plus up to 24 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.

**Year 4**

CSCI321 Project 12
Plus 12 credit points of 300 level Computer Science subjects
Plus 24 credit points of subjects from Creative Arts Schedule

* up to 18 credit points of these 54 credit points can be taken from the General Schedule
Honours

Subject to satisfactory performance, existing 48 credit point end-on honours courses will be available for either the Bachelor of Computer Science or the Bachelor of Creative Arts, or sequentially for both degrees.

The following program of study is recommended for students who do NOT hold a NSW HSC 2 Unit (with a mark of 60 or better) or 3 unit computing studies or equivalent. To satisfy the requirements in minimum time the following subjects should be taken:

### Year 1
- **CSCI101** Introduction to Information Technology A 6
- **CSCI102** Introduction to Information Technology B 6

Plus up to 36 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.

### Year 2
- **CSCI111** Computer Science 1A 6
- **MATH122** Probability and Logic 6
- **CSCI121** Computer Science 1B 6

Plus 18 credit points of Computer Science subjects.

Plus up to 24 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.

### Year 3
- **CSCI204** Programming: The C Family and Unix 6
- **CSCI213** JAVA Programming and the Internet 6

Plus 24 credit points selected from the Computer Science course structure*

(Noteing that CSCI336 Computer Graphics is required for the students enrolled in the Visual or Graphic Arts programme in the Creative Arts degree.)

Plus up to 24 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.

### Year 4
- **CSCI321** Project 12

Plus 12 credit points of 300 level Computer Science subjects

Plus 24 credit points of subjects from Creative Arts Schedule

* up to 18 credit points of these 54 credit points can be taken from the General Schedule

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**Bachelor of Computer Science - Bachelor of Laws**

Refer to the Faculty of Law section for details of this double degree program.

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**Bachelor of Computer Science - Bachelor of Science**

To qualify for the award of the double degree of Bachelor of Computer Science and Bachelor of Science by joint registration, candidates must satisfactorily complete the subjects and credit points as prescribed in the following Program, and in so doing, satisfy the requirements of Course Rules 107 and 109 for the Bachelor of Computer Science and the Bachelor of Science, respectively.

**Minimum Performance Requirement**

Candidates must maintain a weighted average mark (WAM) of at least 65 at the end of each year, otherwise they must show cause as to why they should be permitted to remain registered for the two courses.

Candidates who, at the end of any year of registration, have satisfied the requirements of Course Rule 011, but who do not have a WAM of at least 65 and who have not given adequate reason as to why they should be permitted to continue with registration for the joint course, will be required to transfer into either a Bachelor of Computer Science or a Bachelor of Science.
Major Study Areas

It is strongly recommended that students who are enrolled in this degree and wish to major in Secure Distributed Systems complete the core subjects as well as CSCI212, CSCI214, CSCI316 and CSCI322.

Students wishing to major in Software Development should complete the core subjects as well as CSCI205, CSCI235, CSCI311 and CSCI325.

Honours

Candidates may apply, within normal procedures, to register for either, or consecutively, both, the Bachelor of Computer Science (Honours) or the Bachelor of Science (Honours) after the satisfactory completion of the joint program.

The following program of study is recommended to satisfy the requirements in minimum time.

Year 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
<td>6</td>
</tr>
<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
<td>6</td>
</tr>
<tr>
<td>MATH187</td>
<td>Mathematics IA Part 1</td>
<td>6</td>
</tr>
<tr>
<td>MATH188</td>
<td>Mathematics IA Part 2</td>
<td>6</td>
</tr>
<tr>
<td>CSCI101</td>
<td>Introduction to Information Technology A</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus 18 credit points from 100-level BIOL and/or CHEM and/or GEOG and/or GEOL and/or PHYS subjects selected from the Science Schedule.

NB CSCI101 is not required for students holding NSW HSC 3 unit Computing Studies or 2 unit Computing Studies (60/100 or better) or equivalent.

Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI204</td>
<td>Programming: The C Family and Unix</td>
<td>6</td>
</tr>
<tr>
<td>STS212</td>
<td>The Scientific Revolution: History, Philosophy and Politics of Science</td>
<td>8</td>
</tr>
<tr>
<td>MATH121</td>
<td>Discrete Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>CSCI102</td>
<td>Introduction to Information Technology B</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one of the following subjects

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>ECTE196</td>
<td>Introduction to Internet Technology</td>
<td>6</td>
</tr>
<tr>
<td>MATH111</td>
<td>Applied Mathematical Modelling I</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus at least 18 credit points from 100- and/or 200-level BIOL and/or CHEM and/or GEOG and/or GEOL and/or PHYS subjects selected from the Science Schedule. Plus at least 12 credit points at 200-level from the General Schedule.

Year 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>IACT201</td>
<td>Information Technology and Citizens' Rights</td>
<td>6</td>
</tr>
<tr>
<td>STAT131</td>
<td>Understanding Variation and Uncertainty</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus at least 18 credit points from 200- and/or 300-level subjects selected from the Computer Science course structure.

Plus at least 24 credit points from 200- and/or 300-level BIOL and/or CHEM and/or GEOG and/or GEOL and/or PHYS subjects selected from the Science Schedule. Plus at least 6 credit points from the General Schedule.

Year 4

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Points</th>
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<tbody>
<tr>
<td>CSCI321</td>
<td>Project</td>
<td>12</td>
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</table>

Plus at least 12 credit points from 200- and/or 300-level subjects selected from the Computer Science course structure.

Plus at least 24 credit points from 200- and/or 300-level BIOL and/or CHEM and/or GEOG and/or GEOL and/or PHYS subjects selected from the Science Schedule.

If the Science major study is Physics, please refer to your coordinator for details of MATHS subject selection.

Bachelor of Information and Communication Technology - Bachelor of Laws

Refer to the Faculty of Law section for details of this double degree program.
ELECTRICAL, COMPUTER & TELECOMMUNICATIONS ENGINEERING

ECTE101 Electrical Engineering 1 6cp
Spring Wollongong On Campus
Contact Hours: 78hrs Lec/Tut/Prac.
Pre-requisites: none
Co-requisites: MATH142 or MATH143 or MATH162 or MATH188 and PHYS142 recommended.
Restrictions: none
Exclusions: ELEC101
Assessment: See Subject Information Sheet those presented here are only a guide. Final examination - 60%; Practical (Reports) 15%; Tutorial Tests 7.5%; Tutorial Assignments 7.5%; Examination 60%.
Subject Description: ECTE101 aims to provide students with an understanding of the behaviour of basic electrical devices and circuits and with an introduction to the mathematical models used in computer, electrical, internet and telecommunications engineering. It will provide an introduction to electrical quantities and measurements; circuit analysis; electronic devices and circuits; an introductory overview of the frequency spectrum used for communications; the use of modulation and broadcast mediums, e.g., television and radio; wireless technology, and fixed networks. The practical component will cover basic electrical measuring, recording and display instruments; characteristics and measurements of circuit elements, analogue and digital electronic circuits, simple communications circuits.
Subject Objectives: Students who successfully complete this subject will acquire the following competencies and abilities. In particular, students will be able to: (a) use circuit theorems to simplify circuit calculations; (b) analyse and design simple circuits using devices covered in the contents; (c) demonstrate an understanding of the frequency spectrums used in communications; (d) demonstrate practical experience in making and recording measurements using electrical components and equipment; and (e) write reports on experimental work undertaken.

ECTE150 Engineering Design and Management 1 6cp
Autumn Wollongong On Campus
Annual Wollongong On Campus
Contact Hours: 78hrs Lec/Tut/Prac.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: ELEC150
Assessment: See Subject Information Sheet those presented here are only a guide. Examination (Lecture Material) 50%; Reports/Presentation(s) 10%; Tutorial/Practical assignments 15%; Team Exercise 25%.
Subject Description: The aim of ECTE150 is to provide students with an introduction to the communication, management and teamwork skills required of professional engineers. The subject will examine the role played by electrical engineers in society, their responsibility to the environment, and will show the importance of the professional code and ethics. Lectures will also examine and introduce management topics relevant to engineers. Laboratory activities will introduce basic measurement and computing skills.
Subject Objectives: A student who successfully completes this subject should be able to: (a) demonstrate an understanding of the social, environmental, and economic consequences of an engineer's professional activities; (b) demonstrate ability to work in and contribute effectively to a team solving simple engineering design problems; (c) use a systematic approach to the design, construction and testing of simple circuits; and (d) write structured reports and give organised presentations on design activities and researched material.

ECTE191 WWW Engineering 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Final examination - 60%, assignment - 25% and practical - 15%.
Subject Description: The aim of this subject is to provide students with a practical introduction to the World Wide Web and to a variety of tools useful in engineering the WWW. Topics covered will include: embedded servers; relevant standards; multimedia content and formats in use on the WWW, for example, MPEG, JPEG and ZIP compression formats; practical applications of compression; and modular level engineering of Java programs.
Subject Objectives: Students who successfully complete this subject will acquire the following competencies and abilities. In particular, students will be able to: (a) engineer a simple WWW communication solution; (b) demonstrate an understanding of the systems involved in Web development; (c) demonstrate an understanding of the issues involved in composing multimedia WWW content; (d) demonstrate an appropriate level of written and oral communication skills; and (e) demonstrate practical and problem solving skills.

ECTE195 Design and Management 6cp
Autumn Wollongong On Campus
Contact Hours: 71.5hrs Lec/Tut/Prac.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: ELEC150, ELEC195
Assessment: See Subject Information Sheet those presented here are only a guide. Examination (Lecture Material) 30%; Tutorials 30%; Seminars 20%; Practical 20%.
Subject Description: This subject provides an introduction to the communication, management and team work skills necessary to implement typical IT projects for students in the BIST degree. It also seeks to provide students with communication and experimentation skills. Accompanying laboratory activities will introduce students to basic skills and concepts needed for internet performance measurements and monitoring.
Subject Objectives: A student who successfully completes this subject should be able to: (a) demonstrate an understanding of some of the fundamentals of management theory and practice; (b) demonstrate an ability to work in and contribute effectively to a team solving simple problems; (c) demonstrate an ability to communicate with others; (d) write structured reports and give organised presentations.
steady state response of circuits; (iii) analyse ac circuits using

Subject Objectives: After successfully completing this subject, the student should be able to: 1. describe packet switching and switched network architectures; 2. identify key Internet components; 3. demonstrate an understanding of how internet component behaviours determine overall Internet performance; 4. explain how access devices, e.g., modems, transfer information; 5. demonstrate an understanding of the protocols, eg., http, which underpin the operation of the WWW; and 6. write reports on exercises undertaken.

ECTE201 Circuit Theory 1 4cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: ELEC201
Assessment: information unavailable
Subject Description: information unavailable
Subject Objectives: information unavailable

ECTE202 Circuits and Systems 6cp
Annual Wollongong On Campus
Contact Hours: 65hrs Lec/Tut/Prac.
Pre-requisites: ELEC101 or ECTE101, MATH142, MATH143 or MATH162 or MATH188
Co-requisites: none
Restrictions: none
Exclusions: ELEC201, ELEC202
Assessment: See Subject Information Sheet those presented here are only a guide. Tutorial assignments 20%; Tests 10%; Final Examinations 70%.
Subject Description: Topics covered will include: dependent sources; circuit analysis techniques; operational amplifiers; feedback; energy storage elements L, C; natural, forced and complete response of first and second order circuits; steady state sinusoidal circuits-phasors; frequency response, Bode diagrams and filters; Laplace and Fourier approaches to system and signal analysis; and block and signal flow diagrams.
Subject Objectives: A student who successfully completes this subject should be able to: (i) use circuit theorems in analysing networks with mixed sources; (ii) analyse the transient and steady state response of circuits; (iii) analyse ac circuits using phasor methods; (iv) calculate the frequency response of circuits; (v) analyse system and circuit dynamics using Laplace and Fourier Techniques; and (vi) represent systems by block diagram techniques.

ECTE212 Electronics and Communications 6cp
Spring Wollongong On Campus
Contact Hours: 58.5hrs Lec/Tut/Prac.
Pre-requisites: ELEC101 or ECTE101
Co-requisites: ELEC202 or 201 or ECTE202
Restrictions: none
Exclusions: ELEC211, ELEC212
Assessment: See Subject Information Sheet those presented here are only a guide. Tutorial assignments 10%; Laboratory work and Test 30%; Final Examination 60%.
Subject Description: Topics covered will include: using ideal operational amplifiers to construct: inverting and non-inverting amplifiers; summation amplifiers, averaging amplifiers; integrators; constant current sources; current to voltage amplifiers; voltage to current amplifiers; comparators; peak detectors; and scaling adders. In addition, the effects of non-ideal operational amplifiers and the effects of positive and negative feedback will be examined along with filters and frequency shifting.
Subject Objectives: A student who successfully completes this subject should be able to: (i) analyse operational amplifier circuits; (ii) write technical descriptions of circuit operation; (iii) design electronic circuits using operational amplifiers; (iv) explain how the non-idealities of the operational amplifier change circuit behaviour; (v) analyse signals in the time and frequency domains; (vi) design simple modulators and demodulators; (vii) explain the characteristics of analogue modulation schemes; and (viii) demonstrate appropriate laboratory skills.

ECTE222 Power Engineering 1 6cp
Spring Wollongong On Campus
Contact Hours: 58.5hrs Lec/Tut/Prac.
Pre-requisites: ELEC101 or ECTE101
Co-requisites: ELEC202 or 201 or ECTE202
Restrictions: none
Exclusions: ELEC221, ELEC222
Assessment: See Subject Information Sheet those presented here are only a guide. Mid session test 10%; Laboratory work and Test 30%; Final Examination 60%.
Subject Description: Topics covered include: Typical power system loads; basic structure of a power system; electric power generation; single and three phase systems. Power system equipment: transformers, switch gear and protection. Installation practice: voltage drops, power factor correction, tariffs, safety, earthing, protection equipment rating. Power quality: system disturbances, equipment susceptibility, improvement and instrumentation.
Subject Objectives: A student who successfully completes this subject should be able to: (a) describe the major types of power system loads and their particular requirements; (b) describe the structure and components of a power system; (c) perform basic power system calculations involving power and energy requirements, voltage drops, power factor correction and fault currents; (d) describe power quality problems for particular load types and their solution (e) appreciate the need for safety and equipment protection and the means for achieving it; (f) be familiar with basic laboratory equipment and instrumentation, and (g) demonstrate appropriate laboratory skills.
ECTE233 Digital Hardware 1 6cp
Autumn  Wollongong  On Campus
Contact Hours: 58.5hrs Lec/Tut/Prc.
Pre-requisites: ELEC150 or ELEC170 or CSCI111
Co-requisites: none
Restrictions: none
Exclusions: ELEC231, ELEC233
Assessment: See Subject Information Sheet those presented here are only a guide. Tutorial tests 10%; Laboratory work and test 30%; Final examination 60%.
Subject Description: Topics covered will include: combinational logic, simplification of logic expressions, Karnaugh maps; sequential logic, flip-flops, registers, clock, timing and synchronisation problems, sequential machines, Mealy and Moore machines, timing diagrams and state tables. Students will also be required to become proficient at writing simple programs for a microcontroller.
Subject Objectives: A student who successfully completes this subject should be able to: (a) design a combinational circuit with a minimum of hardware using standard SSI and MSI integrated circuits; and (b) design a synchronous sequential circuit with a small number of states and inputs using standard SSI and MSI integrated circuits; (c) write simple assembler language programs and be competent at using editors, assemblers, linkers and debuggers; and (d) demonstrate appropriate laboratory skills.
ECTE250 Engineering Design and Management 2 6cp
Annual  Wollongong  On Campus
Contact Hours: 42hrs Lec/Sem/Pres.
Pre-requisites: ELEC150
Co-requisites: ECTE202 or ELEC202
Restrictions: none
Exclusions: ELEC250
Assessment: See Subject Information Sheet those presented here are only a guide. Examination (Lecture Material) 30%; Reports (one per team per session) 30%; Presentations (two per session) 20%; Project Deliverables (two per session) 20%.
Subject Description: ECTE250 will consist of a structured team design activity covering the first four phases of a product design cycle; conceptualisation, functional/target specification, design specification and detailed design. Products will be selected from a central theme. The team activity will be supplemented by lectures covering such areas as project planning, contracts/law, budgeting, quality, industrial and community relations, engineering ethics and social consequences. Student teams will undertake the entire project using staff as 'costed' advisors.
Subject Objectives: A student who successfully completes this subject should be able to: (a) demonstrate an understanding of the Product Design Cycle, including the roles of those supporting engineering design; (b) undertake problem identification, formulation and solution within the framework of a product Design Team; (c) function effectively in a multi-cultural, multi-disciplinary team, with the capability to be a team leader/manager as well as a team member; (d) write structured reports and give organised presentations on design activities, to both peers and 'customers'; and (e) perform structured, organised, and costed electronic design utilising skills from core ELEC200-level subjects.
ECTE281 Embedded Internet Systems 6cp
Spring  Wollongong  On Campus
Contact Hours: 4.5 hrs Lec/Tut/Prc per week.
Pre-requisites: ECTE191 or ELEC196 or ECTE196 or ELEC101 or ECTE101
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Final examination - 60% Individual and/or group assignments (including theoretical and practical/laboratory projects) - 30% Oral presentation - 10%
Subject Description: The aim of this subject is to provide students with an understanding of the concepts and typical applications of embedded internet real-time systems. In addition, the methodologies and tools used to design and develop embedded internet real-time systems will also be covered. The subject will cover Web servers in embedded systems, embedded system configuration, real-time embedded databases, design for embedded internet, wireless embedded internet systems including WAP and Bluetooth technologies.
Subject Objectives: Students who successfully complete this subject will acquire the following competencies and abilities. In particular, students will be able to: 1. demonstrate an understanding of the concept of embedded internet systems; 2. describe different elements and configuration of an embedded internet systems; 3. demonstrate the ability to design an embedded internet system based on the available tools and technologies; 4. interact effectively with other people on a one to one basis and in groups to achieve a shared goal; 5. demonstrate an appropriate level of written and oral communication skills; and 6. demonstrate practical and problem solving skills.
ECTE290 Fundamentals of Electrical Engineering 6cp
Spring  Wollongong  On Campus
Contact Hours: 4.5 hrs Lect/Tut/Prac.
Pre-requisites: MATH187/188 or MATH141/142 or MATH161/162
Co-requisites: PHYS143
Restrictions: none
Exclusions: ELEC290
Assessment: See Subject Information Sheet those presented here are only a guide. Practical attendance and performance 13%; Practical Reports 7%; Tutorial Assignment and Mid-Session Test 20%; Examination 60%.
Subject Description: ECTE290 is offered as a servicing subject to students undertaking Bachelor of Engineering Degrees within the Faculty of Engineering. The aim of this subject is to provide students in other Engineering disciplines with an introduction to some basic concepts of electrical circuits, electrical measurements, instrumentation, data logging, and heavy current devices.
Subject Objectives: On successfully completing this subject, the student should be able to: (a) apply the fundamental laws behind electric circuits and appreciate the importance of electric-electronic circuits in the modern world; (b) develop simple circuits for the processing of electrical signals; (c) interface transducers to data logging equipment; (d) explain the operation and limitations of serial and parallel communications with computers; (e) demonstrate a working knowledge of a variety of motors/generators and transformers; and (f) write reports on experimental work undertaken.
ECTE291 Internet Systems 6cp
Autumn  Wollongong  On Campus
Contact Hours: 4.5 hours Lect/Tut/Prac per week.
Pre-requisites: ELEC196 or ECTE196 or ELEC101 or ECTE101
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Final Exam - 60% Assignments - 20% Laboratory - 20%
Subject Description: This subject will examine Internet protocols, technologies and performance issues. In particular, the link layer technologies that underpin the Internet will be considered. Topics will include: TCP/IP, IP Addressing, Address Resolution Protocol (ARP), Asynchronous Transfer Mode (ATM), Ethernet, Gigabit Ethernet, Frame Relay, Congestion Control/Flow Control. The role of various standards bodies, e.g., Internet Engineering Task Force (IETF) and the International Telecommunications Union (ITU), will be examined. Laboratory exercises will illustrate the operation of key Internet protocols.
Subject Objectives: After successfully completing this subject, the student should be able to: 1. demonstrate an understanding of the operation of link layer protocols, e.g., Frame Relay, ATM, Ethernet; 2. describe how network congestion arises; 3. describe how protocols such as TCP, ATM and Frame Relay react to network congestion; 3. configure basic networking devices; 4. control the operation of experimental networks; and 5. write reports on exercises undertaken.

ECTE292 Internet Technology 2 6cp
Spring  Wollongong  On Campus
Contact Hours: 4.5 hours Lect/Tut/Prac per week.
Pre-requisites: ECTE101 OR ECTE196
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Final Exam - 60% Assignments - 20% Laboratory - 20%
Subject Description: This subject examines recent Internet developments, particularly in access systems, quality of service deployment and scalable architectures. Emerging applications, such as Internet Telephony and Universal Multimedia Access (UMA) will be studied in depth, as well as the protocols that underpin them (e.g., routing, coding). Topics will include: OSPF, BGP4, Mobile IP, Integrated Services, Differentiated Services, Wireless Access Protocols, Simple Network Management Protocol (SNMP), Media Coding Schemes, RSVP, H.323 and H.324. Advanced laboratory exercises will illustrate the operation of various Internet protocols.
Subject Objectives: Students who successfully complete this subject will acquire the following competencies and abilities. In particular, students will be able to: (a) demonstrate an understanding of routing principles, including those for quality of service provision; (b) describe the architecture and components of integrated and differentiated services; (c) identify the key components of wireless internet access; (d) demonstrate an understanding of the signalling mechanisms that underpin internet telephony and other multimedia applications; (e) carry out practical experiments related to the theory; and (f) appropriate practical and problem solving skills.

ECTE301 Digital Signal Processing 1 6cp
Spring  Wollongong  On Campus
Contact Hours: 58.5hrs Lect/Tut/Prac.
Pre-requisites: Year 1 subjects or equivalent, ELEC211 or 212
Co-requisites: ELEC334 or 344
Restrictions: none
Exclusions: ELEC301
Assessment: See Subject Information Sheet those presented here are only a guide. Tutorial assignments 10%; Laboratory work and Test 30%; Final Examination 60%.
Subject Description: Topics covered will include: sinusoids, spectrum representation, sampling and aliasing, FIR filters, frequency response, Z transform, bilinear transform, IIR filters, and spectral analysis.
Subject Objectives: A student who successfully completes this subject should be able to: (a) represent sinusoidal signals mathematically and spectrally; (b) analyse sampling and reconstruction systems including those with aliasing; (c) identify the time and frequency behaviour of FIR and IIR filters; (d) use the Z transform to simplify time delay problems; (e) use MATLAB to synthesize and model sinusoidal AM and FM signals; (f) use MATLAB to examine filtering edge detection and spectral analysis of images and musical tones; and (g) demonstrate appropriate laboratory skills.

ECTE313 Electronics 6cp
Annual  Wollongong  On Campus
Contact Hours: 57hrs Lect/Tut/Prac.
Pre-requisites: Year 1 subjects or equivalent, ELEC201, 211 or 202, 212
Co-requisites: ELEC344 or 343
Restrictions: none
Exclusions: ELEC311, ELEC313
Assessment: See Subject Information Sheet those presented here are only a guide. Tutorial assignments 10%; Laboratory work and Test 30%; Final Examination 60%.
Subject Description: Topics covered will include: analysis and design of: multistage amplifiers, feedback amplifiers, sinusoidal oscillators, analogue filters, non-linear circuits and power amplifiers.
Subject Objectives: A student who successfully completes this subject should be able to: (a) analyse analogue electronic circuits; (b) design analogue electronic circuits with discrete devices and integrated circuits; (c) design and make measurements on electronic circuits using transistors and operational amplifiers; and (d) demonstrate appropriate laboratory skills.

ECTE323 Power Engineering 2 6cp
Autumn  Wollongong  On Campus
Contact Hours: 58.5hrs Lect/Tut/Prac.
Pre-requisites: Year 1 subjects or equivalent, ELEC221 or 222, MATH283
Co-requisites: ELEC343 or 344
Restrictions: none
Exclusions: ELEC322
Assessment: See Subject Information Sheet those presented here are only a guide. Mid session test 10%; Laboratory work and Test 30%; Final Examination 60%.
Subject Description: Topics covered will include: induction and dc machines; elements of electric motor drives; power electronics.
Subject Objectives: A student who successfully completes this subject should be able to: (a) explain the principles of operation of the main types of electrical machines used in industry; (b) explain the principles of operation of the main types of solid-state power electronic controllers used in industry; (c) explain the principles of operation of machines in industrial systems; (e) predict the performance of machines in industrial systems; (e) wire up power circuits safely and correctly and make measurements; (f) demonstrate team work skills while completing the experiments; and (g) demonstrate appropriate laboratory skills.

ECTE333 Digital Hardware 2 6cp
Spring Wollongong On Campus
Contact Hours: 58.5hrs Lec/Tut/Prac.
Pre-requisites: Year 1 subjects or equivalent, ELEC231 or 233
Co-requisites: none
Restrictions: none
Exclusions: ELEC332, ELEC333
Assessment: See Subject Information Sheet those presented here are only a guide. Tutorials 10%; Laboratory work and Test 30%; Final examination 60%.
Subject Description: Topics covered will include: computer architecture, central processing unit, memory (ROM and RAM), input/output devices; basic computer organisation, binary data and instruction codes, machine and assembly languages - instruction set, direct and indirect addressing; building computer systems from commercially available parts such as microprocessors and micro-controllers, static and dynamic memory, A/D and D/A converters, digital I/O, and serial communication integrated circuits. Students will also be required to become proficient at interfacing a micro-controller with digital hardware and writing programs to control the hardware.
Subject Objectives: A student who successfully completes this subject should be able to: (a) explain the architecture of digital computers; (b) design a simple microprocessor system from readily available integrated circuits; (c) write simple assembler language programs to interact with the outside world; and (d) demonstrate appropriate laboratory skills.

ECTE344 Control Theory 6cp
Autumn Wollongong On Campus
Contact Hours: 58.5hrs Lec/Tut/Prac.
Pre-requisites: Year 1 subjects or equivalent, ELEC201 or 202, MATH283
Co-requisites: none
Restrictions: none
Exclusions: ELEC343, ELEC344
Assessment: See Subject Information Sheet those presented here are only a guide. Tutorial assignments 10%; Laboratory work and Test 30%; Final Examination 60%.
Subject Description: Topics covered will include: mathematical modeling of physical systems; signal flow and state space representation of systems; steady state and transient analysis; root locus; frequency response analysis using Nyquist and Bode; design of PID, lag, lead, controllers using Bode and root locus methods; multiloop control.
Subject Objectives: A student who successfully completes this subject should be able to: (a) analyse the behaviour and stability of a system using Laplace transform methods; (b) design analogue compensators to improve the performance of a system; (c) measure the frequency response of a system by magnitude and phase measurement; (d) design, implement and simulate a number of different compensators; (e) compare the performance of the compensated systems; and (f) demonstrate appropriate laboratory skills.

ECTE350 Engineering Design and Management 3 6cp
Annual Wollongong On Campus
Contact Hours: 38hrs Lec/Sem/Pres.
Pre-requisites: Year 1 subjects or equivalent, ELEC250 or ECTE250
Co-requisites: ECTE344 or ELEC344
Restrictions: none
Exclusions: ELEC350
Assessment: See Subject Information Sheet those presented here are only a guide. Examination (Lecture Material) 30%; Reports (one per team per session) 30%; Presentations (two per session) 20%; Project Deliverables (two per session) 20%.
Subject Description: ECTE350 will consist of a structured team design activity covering the final four phases of a product design cycle, continued detailed design, prototyping, testing/conformance, and sales/marketing. The team activity will be supplemented by lectures covering such areas as social and ethical considerations, psychology/ergonomics, accountancy, marketing, sales, and engineering test methodology. Student teams will undertake the entire project using staff as "costed" advisers. In contrast with ELEC250, this subject emphasises the technical achievements of the group project.
Subject Objectives: On successfully completing this subject, the student should be able to: (a) demonstrate an understanding of the Product Design cycle, including the roles of those supporting engineering design; (b) demonstrate an understanding of the role of social and ethical considerations in product design; (c) undertake problem identification, formulation and solution within the framework of a Product Design team; (d) function effectively in a multi-cultural, multi-disciplinary team, with the capacity to be a team leader/manager as well as a team member; (e) write structured reports and give organised presentations on design activities, to both peers and customers; and (e) perform structured, organised, and costed electronic design utilising skills from core third year subjects.

ECTE363 Communication Theory 6cp
Autumn Wollongong On Campus
Contact Hours: 58.5hrs Lec/Tut/Prac.
Pre-requisites: ELEC212 or ECTE212 or MATH283 or STAT131 or STAT231
Co-requisites: none
Restrictions: none
Exclusions: ELEC361, ELEC363
Assessment: See Subject Information Sheet those presented here are only a guide. Tutorials 10%; Laboratory work and Test 30%; Final Examination 60%.
Subject Description: Topics covered will include: Gauss' and Stokes' theorems; Maxwell's equations, wave equation, plane wave propagation, Poynting vector; fundamentals of waveguide and antenna design; noise temperature, gain, figure of merit; microwave propagation; digital modulation schemes; error correction coding; TDMA and CDMA.
Subject Objectives: A student who successfully completes this subject should be able to: (a) explain the principles behind propagation, modulation and demodulation; (b) apply appropriate theory to solve practical problems in communication system design; (c) conduct experiments to measure communication system parameters; (d) analyse the experimental results; and (e) demonstrate appropriate laboratory skills.
ECTE364 Telecommunications Networks 1 6cp

Autumn Wollongong On Campus

Contact Hours: 54hrs Lec/Tut/Prac.

Pre-requisites: Year 1 subjects or equivalent

Co-requisites: ELEC361 or ELEC363 or ECTE363

Restrictions: none

Exclusions: ELEC362, ELEC364

Assessment: See Subject Information Sheet those presented here are only a guide. Tutorials 10%; Laboratory work and Test 30%; Final Examination 60%.

Subject Description: The aim of ECTE364 is to provide students with an understanding of the techniques that are used to provide communication between computer systems. Topics covered will include: coding, error detection and correction, serial communications, packet switching, protocols, modems, and computer networks.

Subject Objectives: A student who successfully completes this subject should be able to: (a) analyse the performance of communication protocols; (b) design communication protocols; (c) describe the techniques used to implement real computer networks (including addressing, routing and interworking); and (d) demonstrate appropriate practical and problem solving skills.

ECTE371 Mechatronics Design 6cp

Annual Wollongong On Campus

Contact Hours: 1L/2S.

Pre-requisites: ENGG151, MECH215

Co-requisites: ENGG351, MECH311

Restrictions: none

Exclusions: none

Assessment: See Subject Information Sheet those presented here are only a guide. Examination (Lecture Material) 30%; Reports (one per team per session) 30%; Presentations (two per session) 20%; Project Deliverables (two per session) 20%

Subject Description: ECTE371 will include a structured team design activity covering the phases of a mechatronics product design cycle, including detailed design, prototyping, testing/conformance, and sales/marketing. Student teams will undertake the entire project using staff as 'costed' advisers.

Subject Objectives: On successfully completing this subject, the student should be able to: (i) demonstrate an understanding of the Product Design cycle, including the roles of those supporting engineering design; (ii) identify problems within the framework of a Product Design Team; (iii) formulate solutions within the framework of a Product Design Team; (iv) demonstrate an ability to function effectively in a multi-cultural, multi-disciplinary team, with the capacity to be a team leader/manager as well as a team member; (v) write structured reports on design activities to both peers and 'customers'; (vi) make organised presentations on design activities to both peers and 'customers'; and (vii) demonstrate an ability to perform structured, organised, and costed mechatronic design utilising skills from core third year subjects.

ECTE391 Internet Technology Project 6cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: INFO202 and WAM of > 70 at the end of Year 2 full-time.

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: See Subject Information Sheet those presented here are only a guide. Oral Presentation - 30%; Project and Report - 70%.

Subject Description: ECTE391 requires students to work on individual projects that may involve some background reading and analysis, the development of hardware and/or the development of software. It will involve weekly tutorial sessions; a seminar presentation and report writing. The aim of this subject is to provide an opportunity for students who have achieved the required pre-requisite to undertake an individual project and develop their initiative.

Subject Objectives: Students who successfully complete this subject will acquire the following competencies and abilities. In particular, students will be able to: 1. demonstrate an understanding of the theoretical/practical aspects of the project; 2. undertake a literature survey and/or undertake practical research on the project topic; 3. show initiative and ability in solving problems; and 4. demonstrate a high level of written and oral communication skills.

ECTE392 Wireless Internet 6cp

Autumn Wollongong On Campus

Contact Hours: 4.5 hours Lectures/Tutorials/Practicals per week.

Pre-requisites: ECTE291

Co-requisites: ECTE364

Restrictions: none

Exclusions: none

Assessment: See Subject Information Sheet those presented here are only a guide. Examination - 70%; Tutorials and Assignments - 30%.

Subject Description: The aim of this subject is to provide students with the knowledge to evaluate current and emerging trends in wireless networks in relation to the Internet. The following topics will be covered: wireless local area networks, personal area networking, mobility in the internet, wireless access protocols, internet in second and third generation mobile networks.

Subject Objectives: Students who successfully complete this subject will acquire the following competencies and abilities. In particular, students will be able to: 1. describe the principles of operation of wireless networks in relation to the Internet; 2. demonstrate an understanding of the principles of wireless local area networks; 3. describe the evolution towards third generation systems and their effect on the internet; and 4. demonstrate appropriate practical and problem solving skills.

ECTE401 Fast Signal Processing Algorithms 3cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: Year 2 subjects or equivalent, ELEC301 or 311 or ECTE301

Co-requisites: none

Restrictions: none

Exclusions: ELEC402, ELEC401

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend the digital signal processing knowledge gained in ELEC301 Digital Signal Processing 1. It forms a useful basis for subsequent DSP applications subjects. The contents will consist of: Discrete Transforms, including: FFT, DFT, DCT, etc.; Wavelet transforms; Filter Design and Structures and Multirate Signal Processing (Interpolation, Decimation, etc.).

Subject Objectives: A student who successfully completes this subject should be able to (a) analyse and understand digital signal processing algorithms; (b) design and utilise digital filters and filter banks; (c) use and implement discrete
transforms such as the Fourier and the wavelet transforms; (d) apply digital signal processing solutions to problems in research or industrial environments; and (e) demonstrate appropriate practical and problem solving skills.

**ECTE404 Adaptive Signal Processing** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC301 or 311 or ECTE301

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** ELEC403

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** The aim of this subject is to extend the digital signal processing knowledge gained in ELEC301 Digital Signal Processing 1. The contents will consist of: applying digital signal processing in adaptive signal processing (e.g. adaptive cancellation, channel equalisation, etc.) applications.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) implement digital signal processing techniques in new applications; (b) demonstrate an understanding of both theoretical and applications-related problems of the adaptive signal processing systems; (c) apply advanced digital signal processing solutions to problems in research or industrial environments; and (d) implement a real-time application or simulation using adaptive signal processing systems.

**ECTE411 AC-Sourced Power Electronics** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC323 or 322 or ECTE323

**Co-requisites:** ELEC313 or 311 or ECTE313

**Restrictions:** none

**Exclusions:** ELEC411

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** Topics covered in this subject include: ac-sourced power electronics devices and their main applications, ac to dc power conversion and its industrial applications, ac voltage controllers, high power conversion in electric power utilities, harmonics and current research developments.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) identify speed/power characteristics of power electronics devices and their major applications; (b) demonstrate adequate knowledge of electric power conversion processes at domestic, industrial and commercial loads; (c) develop analysis skills for basic power electronics circuits; (d) identify common problems associated with power electronic circuit operation and methods of solutions; (e) demonstrate an understanding of recent developments in power electronics, circuits and related technologies; and (f) demonstrate appropriate practical and problem solving skills.

**ECTE413 Micro-Electronics** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC313 or 311 or ECTE313

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** The aim of this subject is to extend the electronics knowledge gained in ELEC313 Electronics. Topics covered will include: theory of operation of BJT and FET devices; the use of FET devices in analogue and digital circuits; CMOS logic family; oscillators; high frequency amplifiers; VLSI design techniques; gate arrays; programmable logic devices; memory cells. The practical component will consist of using Electronics Simulation Packages to (a) model circuits and examine their behaviour; (b) perform a logical design, (c) program the design into a programmable device and test its performance.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) demonstrate an understanding of the operation of BJT and FET devices; (b) use FET devices in analogue and digital circuits; (c) demonstrate an understanding of VLSI design techniques; (d) model circuits and perform a logical design using Electronics Simulation Packages; and (e) demonstrate appropriate practical and problem solving skills.

**ECTE422 Power Quality Monitoring** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC323 or 322 or ECTE323

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** This subject will treat measurement techniques and waveform interpretation relevant to the operation of sensitive equipment with a non-ideal power supply. The different types of waveform disturbances and their characterisation will be discussed, such as harmonics, inter-harmonics, flicker and voltage sag. Relevant standards for signal analysis will be examined and their approach justified. There will also be a treatment of transducers.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) describe the main types of power supply disturbances and their characterisation; (b) identify the waveform signatures of different types of disturbances; (c) discuss the main features of the relevant instrumentation standards; (d) discuss the non-ideal behaviour of real voltage and current transducers; (e) discuss the different types of power quality monitors and their main functional blocks; (f) develop programs to find the parameters of waveforms, and (g) demonstrate appropriate practical and problem solving skills.

**ECTE424 Power System Abnormalities** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC323 or 322 or ECTE323

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** Topics covered include: theory of operation of BJT and FET devices; the use of FET devices in analogue and digital circuits; CMOS logic family; oscillators; high frequency amplifiers; VLSI design techniques; gate arrays; programmable logic devices; memory cells. The practical component will consist of using Electronics Simulation Packages to (a) model circuits and examine their behaviour; (b) perform a logical design, (c) program the design into a programmable device and test its performance.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) demonstrate an understanding of the operation of BJT and FET devices; (b) use FET devices in analogue and digital circuits; (c) demonstrate an understanding of VLSI design techniques; (d) model circuits and perform a logical design using Electronics Simulation Packages; and (e) demonstrate appropriate practical and problem solving skills.

**ECTE424 Power System Abnormalities** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC323 or 322 or ECTE323

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** The aim of this subject is to extend the electronics knowledge gained in ELEC313 Electronics. Topics covered will include: theory of operation of BJT and FET devices; the use of FET devices in analogue and digital circuits; CMOS logic family; oscillators; high frequency amplifiers; VLSI design techniques; gate arrays; programmable logic devices; memory cells. The practical component will consist of using Electronics Simulation Packages to (a) model circuits and examine their behaviour; (b) perform a logical design, (c) program the design into a programmable device and test its performance.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) demonstrate an understanding of the operation of BJT and FET devices; (b) use FET devices in analogue and digital circuits; (c) demonstrate an understanding of VLSI design techniques; (d) model circuits and perform a logical design using Electronics Simulation Packages; and (e) demonstrate appropriate practical and problem solving skills.
overvoltage protection of energy systems and terminal equipment, stability limits of energy systems and the application of electromagnetic transient programmes (EMTP) for insulation co-ordination will be discussed.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) demonstrate an understanding of the critical factors that influence the reliability of electrical energy systems; (b) recognise the need for proper protection methods; (c) identify insulation requirements; (d) use simulation programs to understand the behaviour of electrical energy systems under specific over-voltages; and (e) demonstrate appropriate practical and problem solving skills.

ECTE425 Industrial Drives and Actuators 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC323 or 322 or ECTE323

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** Topics covered in this subject include: selection of dc, ac motors (induction and/or permanent magnet) and actuators for industrial applications and the design of closed loop speed control systems for dc and ac motors. In ac motor control, field orientation will be given particular emphasis.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) select appropriate motors and actuators for industrial applications; (b) analyse dynamic models of dc and ac motors; (c) discuss field orientation in ac motor control; (d) analyse important blocks in closed loop motor control systems and the design of closed loop control systems; (e) simulate the behaviour of dc and ac motor drives using various simulation packages; and (f) demonstrate appropriate practical and problem solving skills.

ECTE426 Power Equipment Design 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC323 or 322 or ECTE323

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** Topics covered in this subject include: design aspects of transformers, ac motors and generators and industrial actuators for motion control. The design and analysis of magnetic circuits to meet requirements such as: torque/weight ratio, losses, heating and cooling will be addressed. Essentials of electromagnetic analysis using simulation software (e.g., finite element methods) will be covered.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) demonstrate an understanding of the end requirements of the electrical equipment required for power systems and industrial processes; (b) discuss the electromagnetic principles that are required in the design of electrical equipment and motion control devices; (c) apply appropriate electromagnetic principles in the design to meet the requirements of the process; (d) use and realise the importance of simulation software in the design process to obtain optimum performance; and demonstrate appropriate practical and problem solving skills.

ECTE431 Real-Time Computing 3cp

**Contact Hours:** Wollongong On Campus

**Pre-requisites:** Year 2 subjects or equivalent, ELEC333 or 332 or ECTE333

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** The aim of this subject is to extend the digital hardware knowledge gained in ECTE333 Digital Hardware 2. Topics covered will include: real-time operating systems; interrupts; interfacing to real world signals; use of A/D and D/A converters; multi-tasking, multi-threading; clocks and timers; and direct digital control. The practical component will consist of writing real-time programs on DSP and microcontroller computer systems.

**Subject Objectives:** A student who successfully completes this subject should be able to (a) demonstrate an understanding of real-time operating systems; (b) implement a real-time system on a micro-controller or DSP processor; (c) design interfacing circuitry between microprocessors and real-world signals; (d) write real-time programs on DSP and micro-controller computer systems; and (e) demonstrate appropriate practical and problem solving skills.

ECTE432 Computer Systems 3cp

**Contact Hours:** Wollongong On Campus

**Pre-requisites:** Year 2 subjects or equivalent, ELEC333 or 332 or ECTE333

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** ELEC432

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** The aim of this subject is to extend the digital hardware knowledge gained in ECTE333 Digital Hardware 2. Topics covered will include: CPU organisation; complex instruction sets; reduced instruction sets; I/O structures; interrupts; direct memory access; intelligent peripherals; interfacing to real world signals; use of A/D and D/A converters; multi-processors; parallel DSP architectures. The practical component will consist of writing programs on microcontroller computer systems.

**Subject Objectives:** A student who successfully completes this subject should be able to (a) explain the principles of the organisation, operation and design of Complex Instruction Set Computers and their control units; (b) explain the principles of system design, with particular emphasis on interconnection and I/O structures; (c) design interfacing circuitry between microprocessors and real-world signals; (d) write programs on micro-controller computer systems; and (e) demonstrate appropriate practical and problem solving skills.
ECTE442 Computer Controlled Systems 3cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Year 2 subjects or equivalent, ELEC344 or 343 or ECTE344
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: This subject provides the knowledge and skills required to model, analyse and design computer controlled systems in the z-domain. The contents will consist of: Discrete time state space modelling of system, stability analysis in state space, controllability and observability, pole placement design and state feedback, state observer design.
Subject Objectives: A student who successfully completes this subject should be able to: (a) model a system using the discrete state space approach; (b) analyse the behaviour and stability of a discrete time system using state space approach; (c) design and simulate and implement state feedback controllers to improve the performance of a system; (d) design, simulate and implement observers to improve the performance of a system; and (e) demonstrate appropriate practical and problem solving skills.

ECTE443 Digital Control 3cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Year 2 subjects or equivalent, ELEC344 or 343 or ECTE344
Co-requisites: none
Restrictions: none
Exclusions: ELEC443
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: This subject provides the knowledge and skills required to model, analyse and design computer controlled systems in the z-domain. The contents will consist of: Impulse sampling, stability analysis in the Z-domain, root locus analysis and design in the Z-domain, W-transformation, frequency response analysis and design in the Z-domain and current research developments.
Subject Objectives: A student who successfully completes this subject should be able to: (a) model a system using Z-transform and W-transform; (b) analyse the behaviour and stability of a discrete time system using root-locus; (c) analyse the behaviour and stability of a discrete time system using frequency response methods; (d) design, simulate and implement digital compensators in Z-domain to improve the performance of a system; and (e) demonstrate appropriate practical and problem solving skills.

ECTE444 Identification and Optimal Control 3cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Year 2 subjects or equivalent, ELEC344 or 343 or ECTE344
Co-requisites: none
Restrictions: none
Exclusions: ELEC444
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: The subject provides the knowledge and skills required to identify the model of a system and optimise its performance. The contents will consist of: system identification using the least square method and quadratic performance index; quadratic optimal control; Kalman filters; and applications of genetic algorithms in system identification and optimal control.
Subject Objectives: A student who successfully completes this subject should be able to: (a) identify the mathematical model of a system using least square, performance index and genetics algorithms methods; (b) design Kalman filters for optimal estimation and stochastic optimal control of a system; (c) design and simulate an optimal control based on a quadratic performance index; (d) design and simulate an optimal control based on genetics algorithms; and (e) demonstrate appropriate practical and problem solving skills.

ECTE457 Thesis 18cp
Annual Wollongong On Campus
Contact Hours: 48hrs Tut/Seminars.
Pre-requisites: All subjects to the end of Year 3 or equivalent
Co-requisites: 18 credit points at 400-level or CSCI311 and 12 credit points at 400-level
Restrictions: none
Exclusions: ELEC457
Assessment: The mark for each session will be calculated according to the following formula: Sessional mark = 0.6 * (Supervisor's mark out of 100%) + 0.3 * (Co-Supervisor's mark out of 100%) + 0.1 * (Seminar Presentation out of 100%) - Penalty points. Final mark = 0.35 * (Autumn Session mark out of 100%) + 0.65 * (Spring Session mark out of 100%).
Subject Description: ECTE457 requires students to work on individual projects which may involve some background reading and analysis, the development of hardware, the development of software, or an experimental program. It will involve weekly tutorial sessions; presentation of seminars; and writing of reports. The aim of this subject is to provide an opportunity for students to undertake a major engineering project and develop their initiative.
Subject Objectives: A student who successfully completes this subject should be able to: (a) demonstrate an understanding of the theoretical/practical aspects of the project; (b) undertake a literature survey and/or undertake practical research on the project topic; (c) show initiative and ability in solving engineering problems; and (d) demonstrate a high level of written and oral communication skills.

ECTE461 Telecommunications Queueing Theory 3cp
Autumn Wollongong On Campus
Contact Hours: 24hrs Lec/Tut/Prac.
Pre-requisites: Year 2 subjects or equivalent, ELEC364 or ECTE364 or ECTE486/483 or ELEC362 or ELEC469
Co-requisites: none
Restrictions: none
Exclusions: ELEC460
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: The aim of this subject is to provide students with telecommunication engineering skills including analysis of delay and loss queueing systems, undertake Markov modelling and analysis, and calculate blocking probabilities of telephone switching equipment. Topics covered will include: queueing theory, Markov chain analysis, throughput and...
congestion analysis, Erlang and Engset distributions, blocking probability and overflow traffic.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) undertake Markov modelling and analysis; (b) analyse delay and queueing loss systems, such as telephone exchanges and trunk lines; (c) calculate blocking probabilities of telephone switching equipment; and (d) demonstrate appropriate practical and problem solving skills.

**ECTE462 Telecommunications System Modelling** 3cp

**Contact Hours:** 24hrs Lec/Tut/Prac.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC364 or ECTE364 or ECTE485/483 or ELEC362 or ELEC469

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** ELEC460

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** The aim of this subject is to provide students with telecommunication engineering skills including skills to analyse and dimension telephone exchanges, trunk lines, Internet switches and circuit and packet switched networks. Topics covered will include: telephone and data networks and systems, mixed voice and data queueing systems, optimal capacity allocation, direct and alternate routing.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) analyse circuit and packet switched networks and systems; (b) analyse mixed voice and data queueing systems; (c) optimally allocate capacity in transmission links in telecommunication networks; and (d) demonstrate appropriate practical and problem solving skills.

**ECTE463 Transmission Systems** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC363 or 361 or ECTE363

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** ELEC463

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** Topics covered include: Maxwell's equations, wave propagation in transmission lines, the Smith chart, wave guides and optical fibres. The aim of this subject is to provide methods of characterising distributed passive transmission media such as transmission lines, wave guides, and fibre optics.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) analyse and dimension electromagnetic wave propagation; (b) apply this knowledge to transmission lines, wave guides and fibre optics; (c) demonstrate an understanding of fibre optic geometries; and (d) demonstrate appropriate problem solving skills.

**ECTE464 Antennas and Propagation** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC363 or 361 or ECTE363

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** ELEC463

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** Topics covered include: wave propagation in the air and signal radiation and antennas. The aim of this subject is to provide methods of characterising antenna systems for use in communications.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) demonstrate an understanding of electromagnetic wave propagation; (b) demonstrate an understanding of signal radiation and antenna design; and (c) demonstrate appropriate practical and problem solving skills.

**ECTE466 Spread Spectrum Communications** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC363 or 361 or ECTE363

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** The aim of this subject is to teach students the theory and highlight the major problems involved in application of spread-spectrum communications. The contents will consist of: basic spread-spectrum techniques, principles of code division multiple access (CDMA), design of spreading sequences, and detection techniques for CDMA. The taught concepts will be illustrated by examples of existing spread-spectrum communication systems.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) analyse and understand principles of spread-spectrum; (b) design spreading sequences and evaluate their parameters; (c) select and optimise spreading sequences for a given application; (d) analyse and design receivers for direct sequence spread-spectrum systems; and (e) demonstrate appropriate practical and problem solving skills.

**ECTE467 Mobile Networks** 3cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** Year 2 subjects or equivalent, ELEC364 or ECTE364 or ECTE485/483 or ELEC362 or ELEC469

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

**Subject Description:** The aim of this subject is to provide students with the knowledge to evaluate current and emerging mobile networks. Topics covered will include: analogue and digital mobile networks, roaming in mobile networks, GSM standards and principles, GSM network structure, call hand-over analysis, mobility in the Internet, emerging third generation mobile networks.

**Subject Objectives:** A student who successfully completes this subject should be able to: (a) describe operation principles of mobile networks; (b) analyse and dimension mobile network radio cells; (c) analyse call hand-over process; (d) demonstrate appropriate practical and problem solving skills.

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ECTE468 Error Control Coding 3cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Year 2 subjects or equivalent, ELEC301 or 363 or ECTE301 or 363
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: The subject includes general concepts of information transmission and covers error-correction techniques applied to data transmission over error-prone (noisy) channels. Topics covered are forward error correction schemes like linear codes, cyclic codes, block codes (e.g. BCH and Reed-Solomon codes), and convolutional codes, as well as error control for channels with feedback, e.g. automatic repeat request (ARQ) coding.
Subject Objectives: A student who successfully completes this subject should be able to (a) explain general concepts of information transmission; (b) design and implement block codes over finite fields; (c) design and implement convolutional codes; and (d) demonstrate appropriate practical and problem solving skills.

ECTE471 Robotics Manipulators 3cp
Spring Wollongong On Campus
Contact Hours: 24hrs Lec/Tut/Prac.
Pre-requisites: Year 2 subjects or equivalent, ELEC344 or 343 or ECTE344
Co-requisites: none
Restrictions: none
Exclusions: ELEC473
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: The subject provides the knowledge and skills required to model, analyse, design and employ a robotics manipulator. The contents will consist of: Industrial robots as a component of automation, mathematical modelling of a robotics arm, direct and inverse kinematics model, direct and inverse dynamics model, trajectory planning, robot control.
Subject Objectives: A student who successfully completes this subject should be able to (a) design and simulate a robotics manipulator to perform a specific task; (b) plan the trajectory of the motion of a robotics manipulator; (c) control a robotics arm; (d) plan the integration of a robot arm in a production line; and (e) demonstrate appropriate practical and problem solving skills.

ECTE472 Robotics Sensory Control 3cp
Spring Wollongong On Campus
Contact Hours: 24hrs Lec/Tut/Prac.
Pre-requisites: Year 2 subjects or equivalent, ELEC344 or 343 or ECTE344
Co-requisites: ELEC313 or ELEC311 or ECTE313
Restrictions: none
Exclusions: ELEC473
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: This subject provides the knowledge and skills required to design appropriate sensors for the intelligent operation of robotics systems. Topics covered include:

ECTE481 Internet Protocols 3cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Year 2 subjects or equivalent, ELEC364 or ECTE384 or ECTE485/483 or ELEC362 or ELEC469
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: This subject will provide students with an understanding of protocols used in the computer networks. Examples will be drawn from existing networks including the Internet. Students will learn what computer network protocols are and how they work today, and how they are likely to evolve in the future. Topics to be studied will include: LAN medium access control protocols, congestion/error control, routing, addressing, and internetworking. There will be both written and programming assignments, including a project involving the design and implementation of an exemplar protocol.
Subject Objectives: A student who successfully completes this subject should be able to (a) enumerate protocols and functions for a variety of networking scenarios; (b) analyse the performance of error and flow control mechanisms such as FEC, MAC, and ARQ; (c) explain the operation of routing and addressing functions associated with network protocols; (d) implement a simple protocol based on a functional specification; and (e) demonstrate appropriate practical and problem solving skills.

ECTE483 Computer Networking 3cp
Autumn Wollongong On Campus
Contact Hours: 24hrs Lec/Tut/Prac.
Pre-requisites: Year 2 subjects or equivalent
Co-requisites: none
Restrictions: none
Exclusions: ELEC364
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.
Subject Description: The aim of this subject is to provide students with an understanding of the techniques that are used to provide communication between computer systems. Topics covered will include: modems, addressing, routing, interworking and congestion control in computer networks.
Subject Objectives: A student who successfully completes this subject should be able to (a) describe the techniques used to implement real computer networks (including addressing, routing and interworking); (b) demonstrate an understanding of the techniques used to provide communication between computer systems; and (c) demonstrate appropriate practical and problem solving skills.
ECTE484  Network Design and Analysis  3cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Year 2 subjects or equivalent, ELEC364 or ECTE364 or ECTE485/483 or ELEC362 or ELEC489
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to provide students with the engineering skills to analyse multi-service packet switched networks and systems. Topics covered will include: simulation and numerical techniques in queueing, software tools for analysis of queueing systems and networks, queueing performance analysis of Internet, ATM and mobile multi-service networks.

Subject Objectives: A student who successfully completes this subject should be able to (a) perform simulation and numerical analysis of packet switched networks and systems (b) dimension multi-service networks and systems; and (c) demonstrate appropriate practical and problem solving skills.

ECTE485  Internet Communications  3cp
Autumn  Wollongong  On Campus
Contact Hours: 24hrs Lec/Tut/Prac.
Pre-requisites: Year 2 subjects or equivalent
Co-requisites: none
Restrictions: none
Exclusions: ELEC364, ECTE364
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to provide students with an understanding of the techniques that are used to provide communication between computer systems. Topics covered will include: layered protocol architectures, circuit and packet switching, asynchronous and synchronous transmission, coding, error detection and correction and flow control.

Subject Objectives: A student who successfully completes this subject should be able to (a) explain the principles of layered protocol architectures (b) explain the principles of circuit and packet switching (c) analyse the performance of circuit and packet switching networks; (d) analyse the performance of error and flow control protocols; and (e) demonstrate appropriate practical and problem solving skills.

ECTE492  Intelligent and Optimal Control  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: ELEC343 or 344 or MECH365 or ECTE344
Co-requisites: none
Restrictions: none
Exclusions: ELEC441/444, ECTE441/444
Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The subject provides the knowledge and skills required to analyse and design a system using intelligent methods and optimise its performance. The contents will consist of: introduction to fuzzy systems and artificial neural networks, crisp fuzzy, adaptive fuzzy and neuro-fuzzy control systems; system identification using the least square method and quadratic performance index; quadratic optimal control; Kalman filters; and applications of genetic algorithms in system identification and optimal control.

Subject Objectives: A student who successfully completes this subject should be able to (a) model a system using fuzzy and artificial neural networks methods; (b) design, simulate and implement crisp, adaptive and neuro-fuzzy controllers to improve the performance of a system; (c) identify the mathematical model of a system using least square, performance index and genetics algorithms methods; (d) design Kalman filters for optimal estimation and stochastic optimal control of a system; (e) design and simulate an optimal control based on a quadratic performance index; (f) design and simulate an optimal control based on genetics algorithms; and (g) demonstrate appropriate practical and problem solving skills.

ECTE494  Robotics  6cp
Spring  Wollongong  On Campus
Contact Hours: 48hrs Lec/Tut/Prac.
Pre-requisites: ELEC332, 343 or 333, 344 or MECH226 or ECTE333, 344
Co-requisites: none
Restrictions: none
Exclusions: ELEC473, ECTE471/472
Assessment: See Subject Information Sheet those presented here are only a guide. Written examination 70%; Assignments 30%.

Subject Description: The aim of ECTE494 is to provide students with an opportunity to study the basic principles and concepts of robotics and its application in modern manufacturing systems. Topics covered will include: survey of industrial robot types; strengths and weaknesses of actual robots; the robot as a component of automation; automation and labour relations; vision, tactile and other sensors; design

threading; multi-processors; parallel DSP architectures; clocks and timers; and direct digital control. The practical component will consist of writing real-time programs on DSP and micro-controller computer systems.

Subject Objectives: A student who successfully completes this subject should be able to (a) explain the principles of the organisation, operation and design of Complex Instruction Set Computers and their control units; (b) explain the principles of system design, with particular emphasis on interconnection and I/O structures; (c) implement a real-time system on a microcontroller or DSP processor; (d) design interfacing circuitry between microprocessors and real-world signals; (e) write real-time programs on DSP and micro-controller computer systems; and (f) demonstrate appropriate practical and problem solving skills.
Subject Descriptions

criteria for robots; and the kinematics and dynamics of manipulator arms.

**Subject Objectives**: A student who successfully completes this subject should be able to: (a) design a robot manipulator to perform a specific task; (b) plan the trajectory of the motion of the robot; (c) design the internal and external sensors required for the robot; (d) plan the integration of the robot in a production line; and (e) demonstrate appropriate practical and problem solving skills.

**INFO202 Project 6cp**
Annual Wollongong On Campus
Contact Hours: 2 hours Lecture/Tutorial per week for half each session.

Pre-requisites: ELEC195 or ECTE195, CSCI111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Examination (Lecture Material) 30%; Reports (one per team per session) 30%; Presentations (two per session) 20%; Project Deliverables (two per session) 20%.

**Subject Description**: This subject is a multi-disciplinary group project in which students will form groups to design and implement a project which is related to internet science and technology. The project will be supervised by staff from the Faculty of Informatics.

**Subject Objectives**: A student who successfully completes this subject should be able to: a. demonstrate an understanding of the critical factors that influence the performance of internet b. demonstrate an ability in communicating with others c. acquire some of the fundamental management theory and put it into practice d. demonstrate an ability for teamwrok

**INFO303 Advanced Project 12cp**
Annual Wollongong On Campus
Contact Hours: Information unavailable

Pre-requisites: INFO202, and WAM > 70 in level 200 subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: See Subject Information Sheet those presented here are only a guide. Examination (Lecture Material) 30%; Reports (one per team per session) 30%; Presentations (two per session) 20%; Project Deliverables (two per session) 20%.

**Subject Description**: This subject provides an opportunity for more capable students to do a group multi-disciplinary project in an area related to internet science and technology. It will allow students to learn how to communicate with one another in teamwork, in collaboratively executive a large internet related project.

**Subject Objectives**: A student who successfully completes this subject should be able to: a. demonstrate an understanding of the critical factors that affect the performance of the internet; b. demonstrate an ability in communicating with others; c. acquire some of the fundamental management theory and put it into practice; d. demonstrate an ability for teamwrok.
INFORMATION TECHNOLOGY & COMPUTER SCIENCE

CSCI101 Introduction to Information Technology A 6cp
Autumn Wollongong On Campus
Contact Hours: 4 hrs/wk.
Pre-requisites: CSCI110 can not be taken by students holding NSW HSC 2 (with a mark of 60 or better) or 3 unit computing studies or equivalent. To action this HSC qualifier, candidates MUST apply on an appropriate form which must be returned to Sonia Jennings (3.220)
Co-requisites: none
Restrictions: none
Exclusions: not to count with CSCI100 or BUSS110; not to be taken by students who have successfully completed CSCI121
Assessment: Laboratory Assignments 50%; Exam 50%.

Subject Description: CSCI101 introduces the concepts of computer system organisation including the main hardware and software components. Covers the historical development of software and hardware technologies. Introduction to problem solving using a visual programming tool. Provides experience with integrated packages including use of simple databases. Students are also taught how to use the Internet and World Wide Web

Subject Objectives: On successfully completing this subject students should be able to: (i)identify the main hardware and software components of a computer system; (ii) manipulate data in an integrated application; (iii) create a simple web page; (vi) solve a problem in a procedural style, using a visual design and code generating tool

CSCI102 Introduction to Information Technology B 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: CSCI101 or BUSS110 or NSW HSC 2 (60 or better) or 3 unit computing studies or equivalent. To action this HSC qualifier, candidates MUST apply on an appropriate form which must be returned to Sonia Jennings (3.220) before start of session
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Workshop reports 10%; Assignments 40%; Exam 50%.

Subject Description: CSCI102 examines a range of information and communications technology e.g., voice-mail, Fax, telephone, optical fibre, global networks and satellites to increase the understanding of how the technology is, or can be applied. Examination of the convergence of these technologies and the impact of the convergence e.g., data networks, EFTPOS, HDTV, personal communications networks. The impact of IT is discussed in relationship to ethical, privacy and legal issues for IT professionals. The development of the Information Society will be addressed against the changing nature of the IT Professionals job.

Subject Objectives: On successfully completing this subject students should be able to: (i) identify the main hardware and software components of a computer system; (ii) manipulate data in an integrated application; (iii) create a simple web page; (vi) solve a problem in a procedural style, using a visual design and code generating tool

CSCI111 Computer Science 1A 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 6 hrs/wk.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: BUS111
Assessment: Exam - 70% Assignments - 30%

Subject Description: CSCI111 introduces the procedural approach to program design and implementation. Covers basic language constructs for defining variables of built-in types, flow control constructs, simple I/O. Explores functional decomposition as a design technique, and the implementation of functions. Introduces simple user-defined data types and aggregates.

Subject Objectives: The aim of this subject is to provide a foundation for subsequent Computer Science studies particularly by developing students' programming skills. Students will be able to: (i) structure solutions to problems for execution by a computer; (ii) use a microcomputer efficiently and effectively in developing total solutions; (iii) develop and express their solutions using "good programming style", (iv) express their solution in well structured programs written in ANSI C++

CSCI112 Fundamentals of Computer Science 6cp
Spring Wollongong On Campus
Contact Hours: 4 hrs/wk.
Pre-requisites: CSCI111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1.- 6 Assignments 40% 2. Final Examination 60%

Subject Description: The concepts of algorithms and computability together with techniques for analysis of the efficiency and complexity of algorithms are studied. Logical formalisms and their application in computing environments and the use of logical reasoning in establishing the correctness of implementations of algorithms are discussed. The abstract models such as finite state machines, pushdown automata and Turing machines are treated.

Subject Objectives: Objectives On successfully completing this subject, students should be able to: (i) use logical formalisms to describe problems; (ii) use logical reasoning to find and analyse solutions; (iii) assess algorithms with respect to their efficiency and complexity; (iv) use logical reasoning to establish the correctness of implementations of algorithms; (v) describe a number of formal models of computational processes.

CSCI121 Computer Science 1B 6cp
Spring Wollongong On Campus
Contact Hours: 6 hrs/week.
Pre-requisites: CSCI111
Co-requisites: none
Restrictions: Note BUS111 will NOT equip you for this subject's content
Exclusions: none
Subject Objectives: On completion of this subject you should be able to: (i) display an understanding of structured data types and their implementation in C++; (ii) create abstract data types which have general applicability to a range of generic problems and implement them efficiently using C++; (iii) use dynamic memory allocation to create and maintain dynamic data structures; (iv) analyse and compare the efficiency of competing algorithms using a range of sorting algorithms as the vehicle; (v) implement solutions to problems involving dynamic data structures and abstract data types in the programming language C++; (vi) display an understanding of some object-based programming concepts by using appropriate C++ constructions.

CSCI131 Introduction to Computer Systems 6cp
Spring Wollongong On Campus
Contact Hours: 5 hrs/wk.
Pre-requisites: CSCI111
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Exam - 60% Assignment - 40%
Subject Description: The subject focuses on the internal operation of the computer and provides an understanding of how the computer, at a low level, carries out the task of processing data. It deals with the machine language as determined by the architecture, addressing techniques, assembly languages, assembler construction, linkers, loaders and related operating system software and provides an introduction to the role of the operating system itself.

Subject Objectives: On successfully completing this subject students should be able to: (i) work with numbers in various and mixed bases; (ii) express arbitrarily complex logical statements in conjunctive or disjunctive normal form; (iii) express logical statements in the form of circuits using cascaded gates; (iv) decompose complex solutions in as fine grained detailed manner as possible, within the constraints of a machine's instruction set; (v) extract the essence of what an arbitrary sequence of machine instructions appears to perform.

CSCI203 Data Structures, Algorithms, Systems 6cp
Autumn Wollongong On Campus
Contact Hours: 3hrs Lecture, 2hrs CLab
Pre-requisites: CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: assignment 40%; exam 60%
Subject Description: Approaches to analysing algorithm complexity, introduced in first year subjects, will be reviewed. The complexity class of algorithms will be introduced as one of the major consideration in problem analysis and program design. The use of abstract data types as a design technique, and their implementation in solutions to problems, will form a part of the practical work. Code will be implemented in the form of reusable C++ classes and/or C modules.

Subject Objectives: For full list see subject outline On successfully completing this subject students should be able to: (i) analyze the complexity of algorithms and use data on algorithm classes when making design choices for solutions to problems.

CSCI204 Programming: The C Family and Unix 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: 6 hrs/wk.
Pre-requisites: CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Laboratory Assignments 40% Final Examination 60%
Subject Description: The Computer Science component applies algorithms and data structures to text processing problems. In the Programming Tools component, solutions to these problems are designed using object based and object oriented design and implemented in C++ and Shell(sic) on Unix. The Software Engineering component emphasises achieving correct, robust and efficient programs. (v) read C programs; (vi) develop software in a Unix environment. Note: This session, the subject will vary the emphasis on particular topics to more reflect the purpose of this subject i.e. the relationships between C and C++ and programming in a Unix environment. The official description will be modified to reflect this change in emphasis.

Subject Objectives: On completion of this subject you should be able to: (i) select and code the appropriate algorithms to solve text processing problems; (ii) understand the concepts of scanning, parsing and interpreting textual input; (iii) use object based techniques in the design of programs; (iv) write correct, robust and efficient programs in C++; (v) read C programs; (vi) develop software in a Unix environment.

CSCI205 Development Methods & Tools 6cp
Spring Wollongong On Campus
Contact Hours: 4 hrs/wk.
Pre-requisites: CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 50% for a final examination. 50% for assignments
Subject Description: To provide students with practical skills and knowledge of systems analysis and design techniques. Students will be given instruction in a particular, standard analysis and design method. The techniques and phases of the selected method will be treated thoroughly and in detail. The instruction will utilise case studies, and it will be supported by Computer Aided Software Engineering (CASE) technology. In addition to individual learning, students will be introduced to group analysis and design activities.

Subject Objectives: On completion of this subject the student should be able to: 1. explain the techniques and stages of the analysis and design method; 2. describe the range of application domains to which the method can properly be applied; 3. demonstrate proficiency in the correct use of the techniques learnt; 4. properly apply the method to a particular analysis and design problem within the method's application domain. 5. demonstrate proficiency in the use of appropriate CASE tools.
CSCI212 Operating Systems 6cp
Autumn Wollongong On Campus
Contact Hours: 5 hrs/wk.
Pre-requisites: CSCI131 or CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 40% Final Exam 60%
Subject Description: The subject introduces main operating system concepts and explains the role of major operating system components. In particular, the subject overviews computer system structures, describes main process and storage management issues, and stresses the importance of protection and security.
Subject Objectives: A student who successfully completes this subject should be able to: (i) identify the major components of an operating system, (ii) define the terms used to describe operating system functions, (iii) explain the algorithms commonly used to implement these functions, (iv) compare the performance of commonly used algorithms, and (v) evaluate the suitability of an operating system for a task.

CSCI213 Java Programming & the Internet 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: 3hr-Lectures, 2hr-labs.
Pre-requisites: CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: assignments 50%; exams 50%
Subject Description: This subject provides: 1. an introduction to the Java language and some of its standard class libraries 2. experience with object oriented design and implementation techniques 3. an understanding of the Internet and its importance to modern software systems. Topics will include: Java language, subset of Java class libraries (windowing, graphics, networking, threads), object oriented design and implementation, Internet issues, basics of TCP/IP protocols, Web technologies, HTML and Javascript, CGI programming, introduction to security issues.
Subject Objectives: A student who successfully completes this subject should be able to: (i) relate Java to other Web technologies including CGI, Javascript and other browser technologies (ii) build Java applets and stand alone applications that exploit the abstract windows toolkit, (iii) design object oriented (OO) programs using a simplified version of a standard OO methodology, (iv) implement programs exploiting the threads and networking capabilities of Java, (v) explain the security problems in a networked environment and detail Java's security mechanisms.

CSCI214 Distributed Systems 6cp
Spring Wollongong On Campus
Contact Hours: 4hrs/wk.
Pre-requisites: CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: assignments 40%; exam 60%
Subject Description: CSCI214 introduces basic concepts of internetworking and distributed systems. Physical communications media are introduced, then the focus shifts to network protocols (TCP/IP), then client-server model and the sockets interface. Other topics to be covered include network addressing and security (firewalls). Real-world programming examples from Unix and Windows-NT environments will be presented. Students will undertake laboratory exercises on Linux-based PCs.
Subject Objectives: A student who successfully completes this course will be able to: identify the main component parts of a networked, distributed computer system; describe how these components interact; understand the workings of some of the more commonly encountered network protocols; be able to both understand and write TCP/IP applications software routines; explain network addressing; demonstrate an understanding of the Client-Server model; & describe firewalls and other relevant security issues.

CSCI235 Databases 6cp
Spring Wollongong On Campus
Contact Hours: 3 hours Lecture, 2 hours CLab.
Pre-requisites: CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1. Assignments- 25% 2. Class tests - 15% 3. Final examination- 60%
Subject Description: This subject investigates three major areas of modern database systems: 1. design of relational databases 2. programming of relational databases 3. concurrency control and data recovery in database systems Topics will include: Introduction to conceptual database modelling; Principles of relational database model; Structured Query Language (SQL) and its procedural extensions (PL/SQL, Embedded SQL, JDBC); Database server programming; Normalization of relational databases; and Transaction management and recovery in database systems
Subject Objectives: A student who successfully completes this subject should be able to: (i) explain the principles of relational database model, (ii) design and implement a simple relational database, (iii) use a number of software tools to implement database applications, (iv) program a relational database server, (v) normalise a relational database, (vi) explain the principles of distributed databases and design a distributed database, (v) explain the principles of transaction management and database recovery mechanisms.

CSCI236 3D Modelling and Animation 6cp
Summer 2002/2003 Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: 12 credit points of 200 level CSCI or IACT subjects
Co-requisites: none
Restrictions: none
Exclusions: CSCI463
Assessment: 1. Laboratory Assignments 5 @ 8%-40% 2. Final Examination - 60%
Subject Description: This subject provides students with a hands-on introduction to the use of computers for developing models of three-dimensional objects and viewing them in 3D as still images and animations. Topics covered include basic modelling primitives, from polygons to spline surfaces; tools to modify simple objects; surfacing concepts such as textures and bump maps; basic lighting of scenes; the animation process including key frames, articulated structures, camera movement and morphing, lighting effects such as volumetrics and radiosity.
Subject Descriptions

The subject uses the industry standard software package LightWave.

Subject Objectives: A student who successfully completes this subject should be able to: (i) understand the basic concepts of modelling and animating three-dimensional scenes; (ii) take an object, whether real or imagined, and build a geometric model of the object in the computer; (iii) choose suitable colours and textures to provide a realistic appearance of the model; (iv) set up lighting and camera to display a still image of the model; (v) set up the motion of objects, cameras and lights to generate an animation of a scene; (vi) use lighting effects to enhance the scene.

CSCI311 Software Process Management 6cp
Contact Hours: 3 hrs/wk.
Pre-requisites: CSCI205
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 50% Examination 50%
Subject Description: Software development is a difficult and challenging task. Apart from the most trivial of problems, the software development process is generally a collaborative rather than an individual effort. To manage the development of complex software artefacts, various principles and practices of software engineering have been formulated. Acquainting students with the principles and practices of managing the software development process is the primary aim of this subject.

Subject Objectives: On completion of this subject the student should be able to: 1. describe various models of software development process; 2. explain the principles and practices of software process management; 3. demonstrate proficiency in a selection of process management techniques; 4. apply process management skills and knowledge to a group software project.

CSCI313 Professional Programming Practices 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CSCI204
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 60% Final Exam 40%
Subject Description: This subject provides an introduction to client server technologies including ports-sockets, RMI, and CORBA-ORB. A student who successfully completes this subject should be able to: (i) implement client server application, in both Java and C++, using alternative technologies including ports-sockets, RMI, and CORBA-ORB based mechanisms; (ii) make appropriate selection of technologies for different proposed applications; (iii) demonstrate an understanding of design patterns relating to distributed systems.

CSCI315 Database Design and Implementation 6cp
Contact Hours: 3hrs lectures.
Pre-requisites: CSCI235
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 3*10% Class tests 2*10% Final examination 50%
Subject Description: This subject investigates the process of relational database design starting from conceptual database design, through logical database design up to and including physical database design, database tuning and administration. The topics will include conceptual database design based on Object Modelling Technique, methodologies for conceptual design, view integration, logical database design, database normalisation and de-normalisation, physical database design, generation of database applications, database tuning, design of distributed database systems.

Subject Objectives: A student who successfully completes this subject should be able to: (i) design a relational database using Object Modelling Technique in a systematic manner, (ii) prove the correctness of the final design using the formal techniques, (iii) carry out cost/benefit analysis of the final design in the terms of physical database design techniques, (iv) implement the design using commercially available database application generators, (v) carry out performance evaluation tests and evaluate his/her implementation against a range of criteria using the best test results, (vi) explain an internal organisation of a sample relational database system, (vii) carry out the basic functions of database administrator, (viii) design a distributed database system.

CSCI316 Network Computing 6cp
Contact Hours: 4 hrs/wk.
Pre-requisites: CSCI214
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 60% Final Exam 40%
Subject Description: This subject provides an introduction to client server technologies including ports-sockets, RMI, and CORBA-ORB based mechanisms; (ii) make appropriate selection of technologies for different proposed applications; (iii) demonstrate an understanding of design patterns relating to distributed systems.

CSCI321 Project 12cp
Contact Hours: 2 hrs/wk.
Pre-requisites: CSCI204 or CSCI213 and 18cp IACT or CSCI subjects
Co-requisites: none
Restrictions: Spring start is only available to candidates who have 96cp of advance standing. As Web Enrolment is not possible for Spring start, see co-ordinators for details
Exclusions: none
Assessment: information unavailable

Subject Description: Working in groups, students design, implement, and document a software system. Involves: project planning and scheduling, seminars and individual presentations, group coordination, research of proposed application domain, use of design methodologies, design documentation, coding, module and system integration, testing, verification, and implementation. A small number of project topics have been proposed. Students will form teams, each of which will design, implement and document a solution to one of the proposed projects. Teams will meet weekly with supervisors to discuss progress and problems.

Subject Objectives: This subject will develop the student's ability to handle the definition, design, programming and documentation of a non-trivial software project.

CSCI322 Systems Administration 6cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: CSCI204 and 6 cp of 200-level CSCI subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 40%; Final Examination 60%

Subject Description: This subject will cover the practical and theoretical aspects of system administration. The various resource areas which have to be managed will be discussed and examined, and the possible methods of monitoring and controlling them in various systems will be investigated. The features unique to both single processor and networked systems will be investigated.

Subject Objectives: On successful completion of this subject the student should be able to: i) identify the manageable components of a typical system, ii) demonstrate an understanding of the steps to follow when the system being managed grows and changes with time.

CSCI323 Artificial Intelligence 6cp
Autumn Wollongong On Campus
Contact Hours: 3Lecture, 1CLab
Pre-requisites: CSCI202 or CSCI204 and 6cp of 200-level Computer Science subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable

Subject Description: CSCI323 reviews the main components of Artificial Intelligence research including knowledge representation, reasoning, natural language understanding, and perception. Focuses on Expert Systems and the computational models they embody. Introduces the programming languages Lisp and Prolog.

Subject Objectives: information unavailable

CSCI324 Human Computer Interface 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: CSCI204 and 6cp 200 level CSCI subjects
Co-requisites: nil
Restrictions: none
Exclusions: not to count with IACT403
Assessment: Final Exam 40% Assessment 60%

Subject Description: This subject examines the design evaluation and implementation of interactive computing systems for human use (HCI) and the major phenomena surrounding them. Also considered are joint performance of tasks by humans and machines, structure of human machine communication, social and organizational interactions with machine design, human capabilities to use machines including their learnability as well as algorithms and programming of the interface itself, engineering concerns that arise in designing interfaces, the process of specification design and implementation of interfaces and design tradeoffs.

Subject Objectives: At the completion of this subject i) describe & justify HCI principles; ii) apply the principles of designing HCI; iii) design a HCI for a specific application and implement a prototype.

CSCI325 Software Engineering Formal Methods 6cp
Autumn Wollongong On Campus
Contact Hours: 4 hrs/wk.
Pre-requisites: CSCI204
Co-requisites: CSCI311
Restrictions: none
Exclusions: none
Assessment: Z Exercise-30% Essay-20% Final Examination-50%

Subject Description: This subject introduces students to formal methods for software specification. The role of formal methods in the software development process is explained, and it is illustrated with case studies of the industrial application of formal methods. The subject uses the Z notation as an example of a formal specification technique, and software tools for the manipulation of Z specifications are introduced. Case studies in the application of formal methods to safety-critical and real-time software systems are presented.

Subject Objectives: A student who successfully completes this subject should be able to: understand and use propositional and predicate calculus; understand formal specifications written in the Z notation, translate informal descriptions into formal specifications in the Z notation, use software tools for the manipulation of formal specifications; describe case studies of the applications of formal methods, describe current industrial practice of formal methods in software development.

CSCI333 Compilers 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: CSCI337
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.

Subject Description: CSCI333 introduces the theories and practices of compiler and interpreter construction. Covers: lexical analysis, parsing, code generation, optimisation, symbol tables, and error detection.

Subject Objectives: information unavailable.
Subject Descriptions

CSCI334 Interfacing and Real Time Programming 6cp
Spring Wollongong On Campus
Contact Hours: 3hrs Lectures, 1hr CLab.
Pre-requisites: CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Five assignments at 8% each = 40% Final examination (3 hours) = 60%
Subject Description: The emphasis of this subject is on low-level interfacing of computer peripherals in high-level languages. Students will be required to complete a number of practical assignments. Topics to be covered will include (a) IBM PC Programmer's model, (b) interrupt handling, (c) I/O registers, (d) data input, error detection and correction, filtering, storage and output, (e) programmable chips for digital, serial, analog and disk I/O, graphics, memory management and real-time clocks. It should be noted that according to Course Rule 003 (Interpretation Point 2 (i)) each credit point for a single session subject has the value of about 2 hours per week including class attendance. Therefore, the amount of time spend on each 6 credit point subject should be at least is at least 12 hours per week, which includes lectures/tutorials/labs etc.
Subject Objectives: On satisfactory completion of this subject the student should be able to: (i) Describe the internal structure of the i80x86/pentium processor in terms of the programmer’s view of the device. (ii) Critically discuss a range of techniques for interrupt handling in a microprocessor. (iii) Describe the essential features of registers in terms of their structure and function. (iv) Identify a range of tasks carried out within a microcomputer by a range of specialised programmable chips. (v) Describe the structure and function of programmable chips for each of a range of specialised tasks including input/output and real-time clocks. (vi) Discuss the role and function of a range of micro-electronic components. Program a range of computer peripherals using a high-level language.

CSCI336 Computer Graphics 6cp
Spring Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: CSCI204 and 6cp of 200-level CSCI subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1. Laboratory Assignments 5 @ 8%-40% 2. Final Examination - 60%
Subject Description: Introduction to computer representation of lines and points; mathematical models; transformations in 2 and 3 dimensions; homogeneous coordinate systems; fill algorithms; solid modelling; hidden line and surface algorithms; lighting models; and current trends.
Subject Objectives: Objectives A student who successfully completes this subject should be able to: (i) outline the methods by which a computer can represent graphical images; (ii) specify mathematical models of two- and three-dimensional graphic entities; (iii) devise geometric transformations of two- and three-dimensional graphic entities; (iv) select appropriate algorithms used to produce realistic images of three-dimensional scenes; (v) implement the above methods and procedures on a computer; (vi) discuss mathematical techniques and technological approaches which may affect the way in which graphical representations are produced in the future.

CSCI337 Organisation of Programming Languages 6cp
Spring Wollongong On Campus
Contact Hours: 3hrs Lectures, 1 hr CLab.
Pre-requisites: CSCI121
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: CSCI337 develops an understanding of major programming paradigms including imperative, functional, logical, object-oriented, and procedural paradigms. Introduces formal language specification. Covers language definition and syntax; data types and data structures; control structures and data flow; run-time considerations; and interpreted languages.
Subject Objectives: Information unavailable

CSCI361 Computer Security 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hrs lectures/2hrs labs.
Pre-requisites: CSCI204 and 6cp of 200-level CSCI subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final exam 70% laboratory work 30%
Subject Description: CSCI361 develops the knowledge and skills necessary to identify the security problems that may occur in a distributed computer environment, and then to devise means for countering the threats. Covers: Identification, passwords, challenge-response protocols Private Key Cryptography: classical ciphers, Feistel cryptosystems Public Key Cryptography: RSA, Merkle-Heilmann, El-Gamal, Elliptic-Curve cryptosystems Hashing: Birthday paradox, serial and parallel hashing, MD family, keyed hashing Digital Signatures: generic, RSA, El-Gamal, blind, undeniable, fail-stop Key Establishment Protocols: classical key transport, DH agreement, Kerberos, SPX, STS protocol, BAN logic Access Control: MAC, DAC, RBAC, implementations of access control, security kernel, Multics, UNIX, capabilities, access control lists, Network Security: IPsec, viruses, web security, copyright protection
Subject Objectives: A student who successfully completes this subject should be able to: (i) identify the threats to computing resources in a distributed computer environment, (ii) classify cryptographic algorithms in terms of their cryptographic characteristics and services provided, (iii) describe two generic key establishment protocols and explain how to assess their performance, (iv) categorise different access control models and their relation to access control policies, (v) explain how protection of information is implemented in a distributed computer environment, (vi) define what is the virus, worm and Trojan horse, (vii) identify which security services can be implemented using IPsec protocols, (viii) describe security aspects of Web technology and their significance for Electronic Commerce

CSCI365 CSCI Honours Preliminary Project 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Information unavailable.
Subject Description: A supervised reading course for prospective Honours students. Under direction of a member of academic staff, students undertake a reading or small research project in an area of Computer Science not available by coursework. Introduction to research methodology.

Subject Objectives: information unavailable.

CSCI370 Special Topics in Computing Science A 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Topics selected from the areas of interest of staff members or visiting faculty. Consult the head of school for details.
Subject Objectives: information unavailable.

CSCI371 Special Topics in Computing Science B 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Note 4
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Topics selected from the areas of interest of staff members or visiting faculty. Consult the head of school for details.
Subject Objectives: information unavailable.

CSCI372 Special Topics in Computing Science C 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Note 4
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Topics selected from the areas of interest of staff members or visiting faculty. Consult the head of school for details.
Subject Objectives: information unavailable.

CSCI373 Special Topics in Computing Science D 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: Note 4
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: Topics selected from the areas of interest of staff members or visiting faculty. Consult the head of School for details.
Subject Objectives: information unavailable.

CSCI399 Server Technology 6cp
Spring Wollongong On Campus
Contact Hours: 3 hours of lectures; 1 hour of laboratory.
Pre-requisites: CSCI204 + 6cp @200 level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 30% assessment, 70% final examination
Subject Description: Topics to include: * Web server technology including servlets and other server extensions * Mechanisms for handling state data in a web context * XML, VRML, and related technologies for the packaging and presentation of data (including style sheets and problems of maintaining consistency in style of site content) * Security problems of a server machine, web specific security issues * Proxy servers, firewalls, traffic filters * Secure network protocols * Java's security related APIs * Certification agents, digital signatures * Logging and tracing user access * Introduction to scripting languages for servers (Perl, etc) * Naming services (DNS & Bind, JNDI) for resource location
Subject Objectives: A student who successfully completes this subject should be able to: manage securely both the deployment of information resources and the handling of commercial transactions via the Internet

CSCI401 Computing Science IV Honours 48cp
Annual Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: Candidates who achieve a credit average or better in the Bachelor of Computer Science or a major in computer science in another degree, are eligible to enrol in an additional years study towards a Bachelor of Computer Science (Honours) (BCompSc(Hons)).
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable
Subject Description: The program of study for BCompSc(Hons), i.e., CSCI401 Computer Science IV Honours will include: 1. a 18 credit point project 2. 30 credit points of 400/900 level subjects from the Computer Science Schedule. 3. With the permission of the Head of School, candidates may substitute up to 12 credit points of subjects with 300 level subjects from another discipline. 4. Attendance at a series of seminars on research methodology (including quantitative and qualitative analysis). Seminars will cover the purpose of research, formulating a research question, conducting a literature review and writing a research proposal. Students will learn how to design an appropriate research plan. Requirements for scholarly writing will also be discussed and the process of undertaking a research project will be analysed. Individual results for subjects attempted will not be released. Instead, the final result for CSCI401 will be calculated from the total results for the project and subjects
Subject Objectives: information unavailable
CSCI405  Computer Science Joint Honours  24cp
Annual  Wollongong  On Campus
Contact Hours: Information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: written examination, seminar and thesis.
Subject Description: The thesis is usually integrated with the other academic unit. The subject comprises one half of CSCI404. A topic for the thesis will be determined in consultation with the other academic unit. See the Computer Science co-ordinator for advice.
Subject Objectives: A student who successfully completes this subject should be able to: (i) present a seminar on the results of their investigation; (ii) explain and/or apply appropriate research skills; (iii) explain and/or use appropriate project management skills; (iv) write a research report.

CSCI411  Computing Science Honours Seminar 12cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: information unavailable.
Subject Objectives: information unavailable.

CSCI412  Computing Science Honours Seminar Part I  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: information unavailable.
Subject Objectives: information unavailable.

CSCI413  Computing Science Honours Seminar Part II  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: information unavailable.
Subject Objectives: information unavailable.

CSCI425  Topics In Software Engineering  6cp
Autumn  Wollongong  On Campus
Contact Hours: 2 hrs per week.
Pre-requisites: 24cp @300 level
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Assignments 100%
Subject Description: This subject examines the current state of software engineering both as an academic discipline and as a profession. The subject focuses on issues of requirements engineering, system procurement, and professional practice, and through case studies, the subject considers reasons for the failure and success of various software engineering projects.
Subject Objectives: At the completion of this subject students will be able to: i) describe contemporary software engineering issues, methods, and practices; ii) report on pertinent case studies of software engineering project failures and successes; iii) select appropriate tools and techniques for software engineering problems; iv) evaluate relevant software engineering constraints, such as risk, cost, time, safety, for a given software engineering project.

CSCI444  Perception and Planning  6cp
Spring  Wollongong  On Campus
Contact Hours: 2hr lectures.
Pre-requisites: 24cp @300 level
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Assignments 100%
Subject Description: This subject explores ways in which a robot can combine data from variety of sensors to create or update a model of its environment, and then use this model to infer the consequences of proposed actions. The subject will cover the use of internal sensors, such as those measuring odometry and location, and external sensors including those for touch, vision, and range finding.
Subject Objectives: At the completion of this subject students will be able to: i) describe the sensors used for navigation of a mobile robot; ii) understand the process of perception for robot sensing and navigation; iii) design a software architecture for perception using behavioural, fuzzy logic and learning technique; iv) select appropriate data structure and algorithms for path planning.

CSCI445  Parallel Architectures and Algorithms 6cp
Autumn  Wollongong  On Campus
Contact Hours: 2 hr Lectures.
Pre-requisites: 24cp @300 level
Co-requisites: Nil
Restrictions: none
Exclusions: none
Assessment: Assignments 40% Exam 60%
Subject Description: This subject presents different approaches to the construction of parallel algorithms and computer architectures. Both theoretical and practical aspects are covered, emphasis is placed on identifying the suitability of the approaches for specific applications.
Subject Objectives: At the completion of this subject students will be able to: i) characterize parallel computers in terms of granularity, coupling, Flynn's Models, topology and interconnection network; ii) understand the difference between shared memory and distributed (message-passing) models; iii) implement both simd and mind parallel algorithms in C/C++; iv) implement parallel programs in both PVM and threads; v) evaluate parallel algorithms in terms of both computational and communication efficiency; vi) apply divide-and-conquer and master-slave techniques to appropriate parallel applications.
Software development can be viewed as an activity in which useful things are built to serve recognisable purposes. For software developers, these "useful things" are a special kind of machine known as software systems, and the "purpose" of these machines is to help solve problems in some application domain. This subject emphasises the importance of understanding the application domains that software systems interact with and the problems we try to solve in these domains. The subject focuses on writing explicit and precise descriptions of the interface between the machine and the domains and the problems to be solved there; (2) Specifications - descriptions of the interface between the machine and the application domain. The subject addresses techniques used to record, elicit, and reason about these descriptions. The subject examines the approach to Requirements and Specification techniques taken by a range of systems engineering methodologies. The concepts of method engineering are introduced and the role of software tools to support this activity is discussed.

**Subject Objectives:**
- On completion of this subject the student should be able to: 1. describe state of the art techniques of software requirements capture and analysis; 2. explain how software system requirements are translated to appropriate software requirements; 3. demonstrate an ability to interpret a particular set of software requirements and translate into a specification; 4. apply the knowledge and skills presented in this subject to typical software development scenarios encountered in the software industry.

**CSCI446 Multimedia Studies**
6cp

**Subject Description:**
CSCI446 studies the algorithms, standards and programming of computer software for the production of a multimedia presentation. Multimedia systems combine images, graphics, sound and text to communicate information. Each of these media has its own standards and file formats. Each can be programmed using off the shelf tools or with programming languages, including the Java Media Interface and Macromedia Lingo. The development of software for these applications requires an understanding of both the media and the algorithms.

**Subject Objectives:**
- At the completion of this subject the student will be able to: i) select the appropriate media for communication of information, ii) explain their choice in terms of the communication requirements, iii) select the appropriate standards for the media chosen, iv) understand the processes involved in the acquisition, representation, compression, delivery, display and human perception of the information, v) select suitable software tools for producing the information, vi) understand the algorithms used to process the information, and vii) write programs to manipulate the information.

**CSCI450 Software Requirements and Specifications**
6cp

**Subject Description:**
Software development can be viewed as an activity in which useful things are built to serve recognisable purposes. For software developers, these "useful things" are a special kind of machine known as software systems, and the "purpose" of these machines is to help solve problems in some application domain. This subject emphasises the importance of understanding the application domains that software systems interact with and the problems we try to solve in these domains. The subject focuses on writing explicit and precise descriptions of the interface between the machine and the domains and the problems to be solved there; (2) Specifications - descriptions of the interface between the machine and the application domain. The subject addresses techniques used to record, elicit, and reason about these descriptions. The subject examines the approach to Requirements and Specification techniques taken by a range of systems engineering methodologies. The concepts of method engineering are introduced and the role of software tools to support this activity is discussed.

**Subject Objectives:**
- On completion of this subject the student should be able to: 1. describe state of the art techniques of software requirements capture and analysis; 2. explain how software system requirements are translated to appropriate software specifications expressed in a range of different formalisms; 3. demonstrate an ability to interpret a particular set of software requirements and translate into a specification; 4. apply the knowledge and skills presented in this subject to typical software development scenarios encountered in the software industry.

**CSCI457 Advanced Topics in Database Management Systems**
6cp

**Subject Description:**
This subject covers two advanced topics from modern database management systems: object-oriented databases and transaction management in database systems. The topics include the details such as design and implementation of object-oriented database systems, hybrid transaction management, optimistic transaction management, nested transactions, management of long transactions, and management of transaction in distributed systems.

**Subject Objectives:**
- At the completion of this subject students will be able to: i) Design and implement object-oriented and object-relational database systems, ii) Identify and describe the differences among the various concurrency control techniques in database systems and determine their impact on performance of database systems

**CSCI463 Advanced Computer Graphics**
6cp

**Subject Description:**
In this subject students will learn how to use graphics techniques such as ray tracing and radiosity to produce highly realistic images with features such as shadows, reflection, refraction, texturing, penumbra and motion blur. The rendering algorithms and their underlying mathematics are covered with a practical component being the implementation of a ray tracer. Applications including scientific visualisation are also covered.

**Subject Objectives:**
- At the completion of this subject, students will be able to: (i) Design and implement the algorithms used to produce ray-traced images; (ii) Discuss the underlying mathematical models; (iii) Discuss the advantages and disadvantages of several visualisation techniques;
At the completion of this subject students will be able to: i) understand the architecture and learning algorithms of the more commonly encountered neural network models; ii) understand the strengths and limitations of artificial neural networks (ANNs); iii) be able to apply ANNs to typical pattern recognition and/or classification problems; iv) understand the need for preprocessing the available neural data.

CSCI465 Design and Analysis of Algorithms 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: 24cp @ 300 level
Co-requisites: nil
Restrictions: none
Exclusions: none
Assessment: 50% assessment 50% exam
Subject Description: The objective of this subject is to develop the knowledge, skills and techniques for designing and analysing algorithms. Topics to be studied include: review of standard algorithm designs including divide and conquer, the greedy method, etc; complexity analysis and comparison of algorithms, number theoretical algorithms

CSCI466 Coding for Secure Communication 6cp
Spring Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: 24cp @ 300 level
Co-requisites: nil
Restrictions: none
Exclusions: none
Assessment: Assignment 50% Exam 50%
Subject Description: This subject provides a fundamental understanding of information protection and efficient coding strategies that can be used to ensure correctness, security and authenticity of data. It uses entropy as the universal measure of information to analyse and explore fundamental bounds on the performance of secure and reliable storage and communication systems, and examine a range of coding schemes that form the main building blocks of such systems. It will include the following topics. i) redundancy in data and compression algorithms ii) efficient error control strategies for secure and reliable communication and storage systems; iii) coding methods for secrecy and authenticity.

CSCI471 Advanced Computer Security 6cp
Spring Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: 24cp @ 300 level
Co-requisites: nil
Restrictions: none
Exclusions: none
Assessment: 50% assessment 50% exam
Subject Description: This subject provides a review of computer security. Topics include: digital signatures, elliptic curve cryptography, El Gamal public key methods, the Advanced Encryption Standard (AES), Security Standards, Security Evaluation Standards, Linear Cryptanalysis, Differential Cryptanalysis.

Subject Objectives: At the completion of this subject students will be able to: i) understand and use modern cryptographic techniques; ii) access appropriate technique to be used in specific conditions; iii) undertake rudimentary cryptanalysis of a cryptalgorithm or hash algorithm; iv) understand what is required to get a certified security evaluation.
Subject Objectives: A student who successfully completes this subject should be able to: (i) identify the privacy, legal and security issues related to the introduction of information and communication technologies; (ii) explain technical solutions to security and privacy problems arising from the introduction of technology; (iii) evaluate existing laws and regulations relating to privacy legal and security issues.

Subject Description: IACT201 will examine the information technology industry which encompasses: telecommunications; computing; broadcasting and publishing. It will analyse the encroachment of industry activities that use electronic media on: citizens' rights in matters of data surveillance; freedom of access to information and ownership of intellectual property. The extent to which technical solutions to these problems can and cannot be provided will be discussed and alternative non-technical (eg administrative or regulatory) solutions will also be treated. An investigation of the current legal safeguards, their legislative histories and the need for new legislation will be covered.

Subject Objectives: A student who successfully completes this subject should be able to: (i) identify the privacy, legal and security issues related to the introduction of information and communication technologies; (ii) explain technical solutions to security and privacy problems arising from the introduction of technology; (iii) evaluate existing laws and regulations relating to privacy legal and security issues.

IACT202 The Structure and Organisation of Telecommunications 6cp
Spring Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: IACT101 OR CSCH102 or CSCH111
Co-requisites: none
Restrictions: none
Exclusions: none
Subject Description: The aim of the subject is to provide students with an introduction to the technologies and regulatory structures which constitute the modern telecommunications system. Under regulatory components, the variety of telecommunications services and related regulatory concepts and structures are discussed. Under technological components, the following issues are dealt with: telecommunications standards; new network services; and basic components of the telecommunications system such as the public switched network, the radio frequency spectrum, mobile telephony and satellites.
Subject Objectives: A student who successfully completes this subject should be able to: (i) explain the basic components of the modern telecommunications system; (ii) describe the fundamental technological and regulatory aspects of the modern telecommunications system; (iii) discuss some of the current social, economic and political issues surrounding telecommunications and its regulation;
Subject Descriptions

IACT303  World Wide Networking  6cp  Spring  Wollongong  On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: IACT101 or CSCI102 or CSCI213 or BUSS110 or CSCI111
Co-requisites: none
Restrictions: none
Exclusions: none
Subject Description: This subject investigates the issues listed in the schedule below within the context of world wide networking. Emphasis will be placed on group work with students required to participate in problem solving communications tasks. Web based activities will be an essential element in the conduct of this subject. Other activities may include: the setting up and conduct of a video-conference with students at another University, the running of a bulletin board or Internet mailing list or the maintenance of a World Wide Web site. Contributions to this subject have been made by several members of staff within the School.
Subject Objectives: A student who successfully completes this subject should be able to: (i) identify the technical, social and legal problems related to the developments in world wide networking; (ii) debate legal, business and social issues confronting the global networking community; (iii) critically analyse current standards and policies in relation to world wide networking; (iv) demonstrate a capacity to work as a team member; (v) discuss the key technical and security related issues confronting network managers; and (vi) evaluate use of global networks as an educational medium.

IACT401  IT Strategic Planning  6cp  Spring  Wollongong  On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: 24cp @ 300 level
Co-requisites: none
Restrictions: none
Exclusions: none
Subject Description: This subject aims to provide students with an understanding of IT strategic planning in today's global business environment. Today most businesses compete in a global environment; a sound IT Strategy is essential to facilitate this. This subject covers key areas of IT strategic planning, background issues in strategic planning, the planning life cycle, the components of a strategic plan and management of the strategic plan.
Subject Objectives: student who successfully completes this subject should be able to: (i) analyse corporate goals/missions; (ii) identify IT strategies that need to be put in place; (iii) develop a strategic plan; and (iv) explain how to implement and monitor an IT strategic plan.

IACT402  Applied Project Management  6cp  Autumn  Wollongong  On Campus
Contact Hours: 3 hr lectures.
Pre-requisites: 24cp @ 300 level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assessment 40% Examination 60%
Subject Description: IACT402 deals with the efficient management of a medium size project to ensure that a project meets deadlines and is within its budget. It covers the process of planning, directing and controlling the development of an IT project. Topics covered will include project management tools, software and techniques: expectations management matrices; and use of people management (the subtle art of delegation and accountability). Students will test the principles on the plan, design and implementation of a medium size project.
Subject Objectives: A student who successfully completes this subject should be able to: (i) explain the principles of project management; (ii) apply the tools and techniques of project management to a medium size IT project; and (iii) communicate and present coherent arguments relating to the planning, controlling and development of an IT project both individually and in groups.

IACT403  Human Computer Interface  6cp  Autumn  Wollongong  On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: 24cp @ 300 level
Co-requisites: none
Restrictions: none
Exclusions: CSCI324
Assessment: Final Exam 40%  Assessment 60%
Subject Description: IACT403 examines the design evaluation and implementation of interactive computing systems for human use (HCI) and the major phenomena surrounding them. Also considered are joint performance of tasks by humans and machines, structure of human machine communication, social and organizational interactions with machine design, human capabilities to use machines including their learnability as well as algorithms and programming of the interface itself, engineering concerns that arise in designing interfaces, the process of specification design and implementation of interfaces and design tradeoffs.
Subject Objectives: At the completion of this subject i) describe & justify HCI principles; ii) apply the principles of designing HCI; iii) design a HCI for a specific application and implement a prototype.

IACT404  International Telecommunications Policy Issues  6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: 24cp @ 300 level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: information unavailable.
Subject Description: IACT 404 provides students with an understanding of the policy issues relating to the emergence of political, economic and technological change in international telecommunications. The interdisciplinary foundations of telecommunications policy are examined. Issues in the development of telecommunications policy in Australia and overseas are reviewed as well as the regulatory frameworks adopted by different countries (eg. Australia and the United States) and regions (eg. European Union and South East Asia).
Subject Objectives: information unavailable.
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<td>IACT405</td>
<td>Information Technology and Innovation</td>
<td>6cp</td>
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<td>IACT416</td>
<td>Organisational Issues in Information</td>
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**IACT405 Information Technology and Innovation 6cp**

- **Autumn**: Wollongong On Campus
- **Contact Hours**: Information unavailable
- **Pre-requisites**: 24cp @ 300 level
- **Co-requisites**: none
- **Restrictions**: none
- **Assessment**: Examination 40% Tutorial/ seminar assignments 40% Essay 20%
- **Subject Description**: The rapid development of information technology networks has prompted governments to develop national policies to promote the growth of services in these areas. Innovation in information technology and its effective use is now seen to underpin international competitiveness. Successful innovation policies are now central to the future viability of industry and nations alike. This subject addresses key themes such as: the importance of innovation to the economy and the firm; the links between information, information technology and innovation; and, the development of effective national policies to promote industrial innovation. Issues such as the role of multinationals, transborder data flows and research and development are discussed in this context.
- **Subject Objectives**: A student who successfully completes this subject should be able to: (i) explain the central conceptual ideas underpinning the complex relationships between information, Information technology, telecommunications and innovation; (ii) analyse the key political and economic issues in the area of information technology policy; (iii) communicate and present complex arguments relating to the formulation of information technology and innovation policies, both individually and in groups.

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- **Spring**: Wollongong On Campus
- **Contact Hours**: 3hrs.
- **Pre-requisites**: 24cp @ 300 level
- **Co-requisites**: none
- **Restrictions**: none
- **Assessment**: Seminar presentation 15% Seminar paper 15% Essays 70%
- **Subject Description**: IACT416 aims to provide the student with an understanding of issues related to the combination of management, workers and information technology. Students will gain an appreciation of the complexity of the issues involved in decision making when people and technology are concerned. Students will also develop an understanding across commerce and industry of the parallels that exist in the development, implementation and application of information and communication technology. Effect on organisational information flows of growth in size and complexity: the management and technological response. Information technology as a catalyst in codifying work procedures and creating new organisational structures. Hierarchical versus horizontal approaches to information management. Management theory and IT. Industrial use of IT and parallels with office sector usage. Implications of broadband networks for traffic integration and subsequent application in commerce and industry.
- **Subject Objectives**: A student who successfully completes this subject should be able to: (i) explain the meaning of the major terms confronted in IACT416; (ii) discuss the major issues involved in the debate over technology versus people; (iii) explain what is meant by codification of information and knowledge; (iv) present a coherent discourse about the major topics in the subject; (v) argue persuasively about the advantages and disadvantages of the use of IAC technology in commerce and industry; (vi) report on broadband technologies and their possible implications commerce and industry; (vii) examine the relevance of change management and TQM in commerce and industry; (viii) develop skills in academic writing.

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- **Autumn**: Wollongong On Campus
- **Contact Hours**: 3hrs.
- **Pre-requisites**: 24 cp @ 300 level
- **Co-requisites**: none
- **Restrictions**: none
- **Exclusions**: none
- **Subject Description**: This subject focuses on the importance of information as a resource, on which the knowledge base of successful organisations is dependent. While the main focus of the subject is information management within the organisation, a broader context is important. National and international issues relating to information access will be addressed. These include: standards relating to electronic storage and retrieval of electronic documents (digital archiving); legal protection for information as an economic good (for example as patents, copyright and other forms of intellectual property); and social and ethical issues (eg privacy and security) relating to information management.
- **Subject Objectives**: A student who successfully completes this subject should be able to: (i) Understand the importance of information management to the firm; (ii) Identify organisational

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Subject Descriptions

commence regarding information management; (ii) Evaluate current mechanisms and/or procedures relating to information management within organisations; (iv) Appreciate the influence of external forces (governments and international bodies) in controlling or facilitating information flows; (iv) Investigate the importance of networks like the Internet in the global information context; (v) Discuss the key issues relating to digital archiving.

**IACT418 Corporate Network Management 6cp**

**Subject**: Corporate Network Management

**Contact Hours**: Subject not on offer in 2002.

**Pre-requisites**: 24cp @ 300 level

**Co-requisites**: none

**Restrictions**: none

**Exclusions**: none

**Assessment**: Major Project 40% Seminar presentation 10% Tutorial paper 10% Final Examination 40%

**Subject Description**: The subject investigates the documentation and management of telecommunications networks. Topics to be covered include: (1) Documenting the Network: requirements capture and specification, functional specification, design specification, documenting the network configuration; (2) Managing the Network: influences on the network, management architectures and standards, performance management, fault management, disaster management, managing changes in a network, cost minimisation management; (3) Corporate and Regulatory Requirements: management teams, operations and support, standards and protocols.

**Subject Objectives**: A student who successfully completes this subject should be able to: (1) Explore the uses of telecommunications by businesses; (2) Understand the current status and future directions of telecommunications regulatory environment; (3) Discuss the strategic management issues and the options created by emerging technologies; (4) Develop documentation to support organisational requirements for a telecommunications network.

**IACT419 Online Information Services 6cp**

**Spring**: Wollongong On Campus

**Contact Hours**: 3hrs.

**Pre-requisites**: 24cp @ 300 level

**Co-requisites**: none

**Restrictions**: none

**Exclusions**: none

**Assessment**: Practical work 20% Essays 30% Project or Report 30% Seminar and Seminar Paper 20%

**Subject Description**: This subject examines the emergence of electronic information supermarkets and the changes in ownership that have taken place within the online information industry as mass media conglomerates have entered the field. Other aspects covered include: the role of government in the development of online databases and networks; the creation of "value-added" products through re-formatting, marketing and electronic delivery of information; the future of public information sources such as libraries and government data collection and publication agencies in a changing online environment; and the potential of network developments such as AARNet, the Internet, and NREN in the delivery of online information resources. Some practical experience in the use of electronic information services is provided including Australian and international databases and computer networks.

**Subject Objectives**: A student who successfully completes this subject should be able to: (i) Identify major online information vendors and producers (both private sector and government) within Australia and internationally; (ii) Describe the services provided by online vendors and the means by which access to them can be achieved; (iii) Analyse the potential of network developments in the delivery of information; (iv) Discuss comparative value of a variety of electronic information resources and assess their usefulness; (v) Debate the issues affecting traditional information providers like libraries as more electronic services become available and information brokerages become more common; (vi) Complete practical exercises to a satisfactory level of achievement using a number of electronic information services including: online databases, CD-ROMs and a variety of resources through the Internet.

**IACT422 Case Studies in Information Technology Applications 6cp**

**Spring**: Wollongong On Campus

**Contact Hours**: Information unavailable

**Pre-requisites**: 24cp @ 300 level

**Co-requisites**: none

**Restrictions**: none

**Exclusions**: none

**Assessment**: Information unavailable

**Subject Description**: IACT422 examines leading edge technological developments and the issues arising from the innovative uses of such technology. This subject covers innovative and new applications of information technology to create services and systems, e.g., electronic banking, video conferencing, multimedia, EDI and CD-ROM. In order to provide a thorough background and understanding of an application, normally only one case will be studied in the subject in any one semester. Cases that may be covered include multimedia, EDI and EFTPOS.

**Subject Objectives**: Decide when staff member is allocated

**IACT424 Corporate Network Design and Implementation 6cp**

**Spring**: Wollongong On Campus

**Contact Hours**: 3hrs.

**Pre-requisites**: 24cp @ 300 level

**Co-requisites**: none

**Restrictions**: none

**Exclusions**: none

**Assessment**: Major project 40% Seminar presentation 10% Tutorial paper 10% Final Examination 40%

**Subject Description**: The subject investigates the design and implementation of a telecommunications network plan. Topics to be covered include: (1) The Need for Planning and the Planning Process: planning teams, strategic planning, the network plan, security planning and implementation planning. (2) The Design Process: design teams, translating the plan into design criteria, requirements capture and specification, design requirements and criteria, choosing topographies and architectures, evaluating plans. (3) The Implementation Process: implementation teams, validating implementation plans, managing people and technology, managing the implementation process.

**Subject Objectives**: A student who successfully completes this subject should be able to: 1. Explain the principles of telecommunications network traffic flow control, forecasting, dimensioning and security; 2. Debate the current status and future directions of telecommunications networks as a complex interrelated set of operations; 3. Evaluate the critical forecasting, long range planning issues and appropriate project management techniques; 4. Critically analyse the telecommunications network plan for a large organisation.
5. Identify design criteria and implementation choices for a large telecommunications network. 6. Critically analyse the implementation plan for a telecommunications network for a large organisation.

**IACT426 Information Society, Knowledge Work and Information Technology** 6cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** 24cp @ 300 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Examination 30%  Seminar presentation 10%  Seminar paper 10%  Essay 25% Project 25%

**Subject Description:** The subject examines the concept of 'information society' and its measurement. It also examines the changing structure of the workforce with an investigation of the place and role of knowledge workers in the labour force being a core element. An examination of the trends affecting knowledge workers in Australia, and internationally, with respect to increasing credentialism, life-long learning and issues relating to their education and training will be undertaken. The introduction and application of IT affects each of these areas is therefore another critical component of study.

**Subject Objectives:** A student who successfully completes this subject should be able to: (i) explain the role of IT in the trends relating to the composition of the Australian workforce; (ii) isolate the major issues associated with the use (and impact) of IT and compile suggestions about how commerce and industry can respond to the need for knowledge and skill development; (iii) report on the major trends in education/training in Australia (and to a lesser extent overseas) as they relate to skill and knowledge development and use of IT; (iv) list and explain a range of techniques and technologies used in developing knowledge and skills including those applicable to distance education; (v) analyse national (and/or state) plans for the continuing development of skills and knowledge; (vi) report on national (and/or state) plans for the continuing development of skills and knowledge; (vii) critically analyse the role of knowledge workers.

**IACT430 Special Topics in Information and Communication Technology** 6cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** 24 @300 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** information unavailable.

**Subject Description:** This is an elective subject usually undertaken in the Honours year of the BInfoTech degree, and is also available to students from other disciplines. IACT430 aims to provide the student with an understanding of topics at the forefront of the discipline. Topics will be selected from areas of interest of staff members or visiting staff members to the School. These will include topics in the application of information and communication technology. IT is a rapidly changing area. This subject will allow investigation into topics at the forefront of the discipline.

**Subject Objectives:** information unavailable.

**IACT433 Special Topics in Telecommunications Issues** 6cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** 24cp @ 300 level

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** information unavailable.

**Subject Description:** Topics will be selected from areas of interest of staff members or visiting staff members to the School. These will include topics in the application of information and communication technology. IT is a rapidly changing area. This subject will allow investigation into topics at the forefront of the discipline.

**Subject Objectives:** information unavailable.

**IACT440 Research Project** 24cp

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** WAM of 67.5 & approval from Head of School

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** information unavailable.

**Subject Description:** This subject is conducted under the supervision of academic staff in the School. It includes a series of seminars on research methodology (including qualitative and quantitative analysis). Seminars will cover the purpose of research, formulating a research question, conducting a literature review and writing a resear

**Subject Objectives:** information unavailable.

**IACT441 IT Research Methodology** 6cp

**Autumn** Wollongong  On Campus

**Contact Hours:** 3 hrs/wk.

**Pre-requisites:** WAM of 67.5 & approval from Head of School

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Annotated bibliography, Research proposal, Methodology 40%  Exam 40%  Workshop participation 20%

**Subject Description:** IACT441 will cover the following topics on IT research methodology: What is Research (Purpose of thesis components); Research Methods; Literature Review - Critical Reading, Annotated bibliography and note taking; Survey Methods; Quantitative Methodologies (Results etc); Literature Review - Structure, Writing Up and Presentation Skills Satisfactory attendance at workshops is a requirement for the successful completion of this subject as is attendance at the Postgraduate Forum, held usually during week 8 of Autumn Session

**Subject Objectives:** A student who successfully completes this subject should be able to: (i) communicate effectively (both orally and in writing) the results of their investigation ; (ii) present a literature review on the research topic which includes in its content relevant books, journal articles, software reviews
and bibliographics and which demonstrates skilful use of appropriate research tools; (ii) demonstrate the skills necessary to undertake a project.

**IACT450 Research Report 18cp**

Spring Wollongong On Campus

**Contact Hours:** Information unavailable

**Pre-requisites:** a grade of 75% or better in IACT441

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** IACT440

**Assessment:** Information unavailable

**Subject Description:** This is an Honours year subject of the BlinfoTech degree, only available to students enrolled for honours from year 2000 onwards. It is a research project conducted under the supervision of academic staff in the school.

**Subject Objectives:** Information unavailable

**INFO403 Computer Bioinformatics Honours Project 24cp**

Annual Wollongong On Campus

**Contact Hours:** 1hr.

**Pre-requisites:** WAM greater or equal to 67.5 after completing 144cp of the course

**Co-requisites:** none

**Restrictions:** only available to Computer Bioinformatics candidates

**Exclusions:** none

**Assessment:** Examination of written work Seminar presentation

**Subject Description:** This is a research project conducted under the supervision of one or more relevant members of academic staff. The topic of the work is determined jointly by the student and supervisor.

**Subject Objectives:** A student who successfully completes this subject should be able to: (i) communicate effectively (both orally and in writing) the results of their investigation ;(ii) present a literature review on the research topic which includes in its content relevant books, journal articles, software reviews and bibliographics and which demonstrates skilful use of appropriate research tools; (iii) demonstrate the skills necessary to undertake a research project.

**ITCS431 Advance Web Application Development 6cp**

Spring Wollongong On Campus

**Contact Hours:** 3 hours.

**Pre-requisites:** 24cp @ 300 level

**Co-requisites:** nil

**Restrictions:** none

**Exclusions:** none

**Assessment:** Assignments Final exam

**Subject Description:** This subject is an advanced web applications development subject utilizing the visual basic integrated development environment. Requirements analysis and component solution architectures for e-commerce applications will be studied and solutions implemented utilizing advanced features of VB IDE. See Subject Outline for details

**Subject Objectives:** At the end of this subjects students will be able to: 1. explain in-depth the importance of n-tier architectures for web-based application systems 2. explain the range and type of n-tier solution architectures for web application systems 3. explain the importance of analyzing the business requirements before proposing a solution architecture for e-commerce systems 4. analyse the business requirements for web application systems 5. apply in-depth knowledge of the VB IDE tools and technologies available to implementing a services design model 6. understand components, component architectures, and how to design and implement component applications using VB IDE

**ITCS432 Web Design 6cp**

Spring Wollongong On Campus

**Contact Hours:** Subject not on offer in 2002.

**Pre-requisites:** 24cp @300 level

**Co-requisites:** nil

**Restrictions:** none

**Exclusions:** none

**Assessment:** Assignments 100%

**Subject Description:** Introduces students to the creation and programming of web pages and to the design and management of web sites. Programming topics include XHTML, SMIL, Javascript, Java applets and image processing, and client server models. Creative topics include user interface design, page layout, text, graphics and image processing. Practical work involves creating web pages with professional packages and applet programming in Java. Emphasis is placed on good media design and efficient algorithms for applets.

**Subject Objectives:** 1. appreciation of the principles underlying good web design for information presentation 2. understand the process of creating web pages 3. able to work in a team comprising technical and creative people on web development projects 4. write Java applets for image and audio processing and animation 5. write multimedia web pages using the Synchronised Multimedia Markup Language (SMIL) 6. understand the client server model for efficient delivery of data over the web

**ITCS436 Enterprise Web Applications 6cp**

Spring Autumn Wollongong On Campus

**Contact Hours:** Information unavailable

**Pre-requisites:** 24cp @ 300 level

**Co-requisites:** nil

**Restrictions:** none

**Exclusions:** none

**Assessment:** Paper 3000 words Panel discussion based on paper Practical labs 12 weeks Lotus/Domino collaborative environments and development work and electronic collaboration assignment Practical assignment enterprise modelling assignment Final Examination

**Subject Description:** This subject studies 21st century organizations, in particular transorganizational development [TD] for agile organizations. It examines transorganizational ontologies, such as KWKOKM [knowledge work, knowledge organization, knowledge management] and the extent to which web application systems and strategies support these ontologies Topics covered will include: 1. Business strategies for the 21st century; market trends; the web: driver/enabler of transorganizational development. 2. Review of enterprise integration methodologies such as EKD [enterprise knowledge development] methodology. 2. Review of employee approaches to knowledge management service learning, team learning, quality learning and supporting applications such as ERP, CRM, Supply Chain Management consideration of technical and organizational/social issues; 3. Remote cooperation and the web review of electronic collaboration tools and technologies, e-commerce B2B,B2;

**Subject Objectives:**
1. A commitment to continued and independent learning, intellectual development, critical analysis and creativity
2. Coherent and extensive knowledge in a discipline appropriate ethical standards and, where appropriate, defined professional skills
3. Self confidence combined with oral and written communication skills of a high level
4. An ability to logically analyze issues, consider different options and viewpoints and implement decisions,
5. An appreciation and valuing of cultural and intellectual diversity and ability to function in a multicultural or global environment
6. A basic understanding of information literacy and specific skills in acquiring, organizing and presenting information, particularly through computer-based activity
7. A desire to continually seek improved solutions and to initiate and participate in organization and social change

**ITCS437 Security, Risk Management and Control in Electronic Commerce 6cp**

**Spring**

**Wollongong**

**On Campus**

**Contact Hours:** Information unavailable

**Pre-requisites:** IACT406

**Co-requisites:** nil

**Restrictions:** none

**Exclusions:** none

**Assessment:** Tutorial Participation/Exercises/Discussion; Essay; Risk Assessment Project (Major Group Assignment); Seminar Presentation.

**Subject Description:** This subject aims to provide students with a deep understanding of the security, risk management and regulatory aspects of e-commerce facing businesses in the on-line business environment. Today most businesses compete in a global business environment; a sound business strategy that addresses these issues is essential. This subject covers key issues in e-commerce, including: security options, trusted authorities, secure payment systems for the Internet, the regulatory environment and Government policy, risk management and control.

**Subject Objectives:** A student who successfully completes this subject should be able to: (i) explain the technical aspects & constraints of implementing on-line sites;(ii) analyse specific E-Commerce models & advise on their technical requirements for implementation;(iii) identify and demonstrate the most appropriate technology to deploy for specific E-Commerce requirements;(iv) develop specifications/requirements for the implementation of on-line sites.

**ITCS438 ECommerce Technology Essentials 6cp**

**Autumn**

**Wollongong**

**On Campus**

**Contact Hours:** 3hrs lec/lab.

**Pre-requisites:** 24cp @300 level

**Co-requisites:** none

**Restrictions:** Not available to MCompStud students
Subject Descriptions

MATHEMATICS & APPLIED STATISTICS

MATH110 Advanced Mathematics 1 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus

Contact Hours: 4

Pre-requisites: none
Co-requisites: none

Restrictions: none
Exclusions: none

Assessment: 10% assignments; 20 % mid-session test; 70% final examination.

Subject Description: Several areas of maths: Algebra (involves solving systems of equations using matrix methods, determinants and applications); Vector geometry (involves the idea of vectors and applications to geometry) Polar coordinates; Calculus (involves solution techniques for first and second order differential equations).

Subject Objectives: After successful completion of this subject students should be able to: (i) demonstrate a basic knowledge of the principles and techniques of mathematics; (ii) demonstrate problem solving skills and the ability to analyse the final results; (iii) apply general mathematical principles, think logically and analytically.

MATH111 Applied Mathematical Modelling 1 6cp
Spring Wollongong On Campus

Contact Hours: 6 hrs/wk.

Pre-requisites: Either a mark of at least 80 in MATH151 OR (in the NSW HSC Examination) 2 unit Mathematics - at least 72 marks out of 100; 3 unit Mathematics - at least 33 marks out of 50; 4 unit Mathematics - no minimum mark restriction

Co-requisites: MATH188 or MATH142
Restrictions: none
Exclusions: none

Assessment: Laboratory Reports 18%; Midsession exam 41%, Final examination 41%.

Subject Description: Emphasises the physical, mathematical, numerical and computational aspects of the modern usage of Applied Mathematics in Science, Engineering and Industry. It is strongly recommended for students who are majoring in Industrial and Applied Mathematics. Real-world problems are tackled as idealised mathematical systems, the mathematical problem is solved and the results interpreted.

Subject Objectives: After successful completion of this subject, students should be able to: (i) translate assumptions to mathematical equations, given a conceptual quantitative model; (ii) solve any separable first order differential equation, any second order linear differential equation or difference equation with constant coefficients; (iii) use spreadsheet software to display data generated by mathematical models.

MATH121 Discrete Mathematics 6cp
Autumn Wollongong On Campus

Contact Hours: 6 hrs/wk.

Pre-requisites: Either a mark of at least 80 in MATH151 OR (in the NSW HSC Examination) 2 unit Mathematics - at least 72 marks out of 100; 3 unit Mathematics - at least 33 marks out of 50; 4 unit Mathematics - no minimum mark restriction

Co-requisites: none
Restrictions: none
Exclusions: none

Assessment: Assignments 10%; Final examination 90%

Subject Description: Students will be introduced to the spirit of mathematical inquiry and critical analysis, and encouraged to develop the ability to apply mathematical principles to the formulation and solution of problems. This is done through the use of non-calculus techniques, especially those of logic and number theory. This subject is well suited to computer science students.

Subject Objectives: After successful completion of this subject students should be able to: (i) apply mathematical principles to the interpretation of data, the formulation and solution of problems and the critical analysis of answers for use in a range of problems in both mathematics and computer science; (ii) construct truth tables for logical expressions; test statements for logical equivalence and represent mathematical statements in the language of predicate logic; (iii) use appropriate methods of proof to derive results in set theory, number theory and the elementary theory of relations and functions; (iv) define the basic elements of graph theory, and apply these in analysing types of graphs; (v) define binary trees and apply them in networking.

MATH122 Probability and Logic 6cp
Autumn Wollongong On Campus

Contact Hours: 4L and 1 T/wk.

Pre-requisites: none
Co-requisites: none

Restrictions: none
Exclusions: not to count with MATH121 or STAT131.

Assessment: Exam 70%, assignments 30%

Subject Description: MATH122 consists of two sections: 1) Probability and Statistics: counting, modelling variability, tree diagrams, conditional probability, discrete and continuous random variables, central limit theorem, statistical literacy. 2) Logic and Set Theory: propositional logic, truth tables, tautology, negation, algebraic laws, deduction, proofs, basic set theory, equivalence relations, functions, partial order, linear order.

Subject Objectives: After successful completion of this subject students should be able to: i) apply mathematical principles to the interpretation of data, the formulation and solution of problems and the critical analysis of answers for use in a range of problems in both mathematics and computer science. ii) construct truth tables for logical equivalence and represent mathematical statements in the language of predicate logic. iii) use appropriate methods of proof to derive results in set theory and the elementary theory of relations and functions. iv) use the basic rules of probability. v) use probability distributions to model the behaviour of some random systems.

MATH141 Mathematics 1C Part 1 6cp
Autumn Wollongong On Campus

Contact Hours: 6 hrs/wk.

Pre-requisites: Either a mark of at least 65 in MATH151 OR in NSW HSC Examination: 2 unit Mathematics - no minimum mark restriction

Co-requisites: none
Restrictions: none
Exclusions: MATH101, MATH141 and MATH187 are not to count together.

Assessment: Assignments 10%; Tests 30%; Final examination 60%.
Subject Description: MATH141 is an alternative core subject for candidates whose HSC mathematics background is weaker than that required for MATH187. The aim of this subject is to develop ideas, concepts and skills in mathematics, especially applied skills, for application in later subjects. Main topics covered are matrix algebra, determinants, vectors, and differential and integral calculus. Computer Aided Learning modules on background material are available.

Subject Objectives: After successful completion of this subject the student should be able to: (i) demonstrate a basic knowledge of the principles and techniques in Mathematics; (ii) demonstrate problem solving skills and the ability to analyse the final results; (iii) apply general mathematical principles, think logically and analytically;

MATH142 Mathematics 1C Part 2 6cp
Spring Wollongong On Campus
Contact Hours: 6 hrs/wk.
Pre-requisites: Either MATH141 OR a mark in the range 45 to 54 in MATH187
Co-requisites: none
Restrictions: none
Exclusions: MATH101, MATH142 and MATH188 are not to count together.
Assessment: Assignments 10%; Tests 30%; Final examination 60%.

Subject Description: MATH142 is a core subject continuing on from MATH141. The aim of this subject is to develop ideas, concepts and skills, especially applied skills, in mathematics for application in later subjects. Main topics covered are further calculus, differential equations, numerical mathematics, sequences and series of numbers and complex numbers. Computer Aided Learning modules are available. Students who do sufficiently well in MATH142 may proceed to relevant 200 level mathematics subjects.

Subject Objectives: After successful completion of this subject the student should be able to: (i) demonstrate a basic knowledge of the principles and techniques in Mathematics; (ii) demonstrate problem solving skills and the ability to analyse the final results; (iii) apply general mathematical principles, think logically and analytically;

MATH151 General Mathematics 1A 6cp
Autumn Wollongong On Campus
Contact Hours: 6 hrs/week.
Pre-requisites: NSW HSC Examination 2 unit Mathematics in Society- no mark restriction; 2 unit Mathematics - no minimum mark restriction.
Co-requisites: none
Restrictions: none
Exclusions: Not to count with any one of MATH101, MATH141, MATH142, MATH187, or MATH188 unless satisfactorily completed prior to satisfactory completion of any of MATH101, MATH141, MATH142, MATH187, or MATH188 respectively.
Assessment: Tests 30%; Final examination 70%.

Subject Description: MATH151 is intended for candidates registered for courses in the Faculty of Science who do not meet the pre-requisite for the subject MATH187. It introduces topics in algebra, trigonometry, co-ordinate geometry, vectors, functions, and calculus. The material is presented in a self-contained manner with a view to further applications in Science subjects.

Subject Objectives: After successful completion of this subject students should be able to: (i) apply mathematical principles to the interpretation of data, the formulation and solution of problems and the critical analysis of answers in work relevant to the scientific disciplines; (ii) graph 2 and 3 dimensional vectors, calculate vector sums, scalar products, dot products of vectors, and the angle between 2 vectors; (iii) define the basic trigonometric ratios, sketch the graphs of trigonometric functions and apply this knowledge to represent the periodic behaviour of natural events; (iv) define the logarithmic and exponential functions and apply these functions to natural growth and decay and to understand data represented by log log and semi-log graphs; (v) differentiate basic functions, calculate rates of change and apply anti-differentiation to the calculation of areas.

MATH161 Mathematics 1E Part 1 6cp
Spring Wollongong Flexible
Contact Hours: Information unavailable
Pre-requisites: Either a mark of at least 65 in MATH151 OR in NSW HSC Examination: 2 unit Mathematics - no minimum mark restriction
Co-requisites: none
Restrictions: none
Exclusions: Not to count with MATH101, MATH141, MATH143, MATH144, MATH187.
Assessment: Assignments 10%; in-session tests 30%; Final examination 60%.

Subject Description: The content of MATH161 involves several areas of Mathematics. These areas are: Calculus which includes real functions, and an introduction to differentiation and integration; Polar co-ordinates; Algebra, which includes solving systems of equations using matrix methods, determinants and applications; and Vector Geometry, which involves vectors and their applications to geometry.

Subject Objectives: After successful completion of this subject the student should be able to: (i) demonstrate a basic knowledge of the principles and techniques in Mathematics; (ii) demonstrate problem solving skills and the ability to analyse the final results; (iii) apply general mathematical principles, think logically and analytically;

MATH187 Mathematics 1A Part 1 6cp
Autumn Wollongong On Campus
Contact Hours: 6 hrs/wk.
Pre-requisites: Either a mark of at least 80 in MATH151 OR (in the NSW HSC Examination) 2 unit Mathematics - at least 72 marks out of 100; 3 unit Mathematics - at least 33 marks out of 50; 4 unit Mathematics - no minimum mark restriction.
Co-requisites: none
Restrictions: none
Exclusions: MATH101, MATH141 and MATH187 are not to count together.
Assessment: Assignments 10%; Test 20%; Final examination 70%.

Subject Description: The pair of subjects MATH187 and MATH188 make up the core for 100 level subjects. They are needed for most 200 level subjects in Mathematics and Applied Statistics. Students not wishing to proceed to 200 level mathematics may just study MATH187. MATH187 is available to students in all disciplines. This subject aims to develop ideas, concepts and skills in mathematics for application in subjects that require MATH187 as a co- or pre-requisite. Main topics are matrix algebra, determinants, vectors, and differential and integral calculus. Assistance is available for students with a weak background in mathematics.

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**Subject Objectives:** After successful completion of this subject, the student should be able to: (i) demonstrate a basic knowledge of the principles and techniques in Mathematics; (ii) demonstrate problem solving skills and the ability to analyse the final results; (iii) apply general mathematical principles, think logically and analytically.

**MATH188 Mathematics 1A Part 2** 6cp
Spring Wollongong On Campus

Contact Hours: 6 hrs/wk.

Pre-requisites: Either MATH187 or a mark of at least 65 in MATH141
Co-requisites: none
Restrictions: none
Exclusions: MATH101, MATH142 and MATH188 are not to count together.

**Assessment:** Assignments 10%; Test 20%; Final examination 70%.

**Subject Description:** MATH188 is a core subject continuing on from MATH187. The aim of this subject is to develop ideas, concepts and skills in mathematics for application in later subjects. Main topics covered are further calculus, differential equations, sequences and series of numbers, numerical mathematics and complex numbers. This subject is required for most 200 level Mathematics and Applied Statistics subjects.

**Subject Objectives:** information unavailable

**MATH201 Multivariate and Vector Calculus** 6cp
Autumn Wollongong On Campus

Contact Hours: 4 hrs/wk.

Pre-requisites: One of MATH101 or MATH188 or MATH283 or a mark of at least 65 in MATH142
Co-requisites: none
Restrictions: none
Exclusions: none

**Assessment:** Assignments 12%; Final examination 88%; Lab assignments compulsory.

**Subject Description:** MATH201 is one of four core 200 level Mathematics subjects and is a prerequisite for many 300 level subjects in Mathematics and Statistics. This subject extends the calculus of functions of a real variable to functions of a complex variable. The study of Complex Variables extends the mathematics subjects. It is of substantial value to science and engineers. Study of these systems is done both theoretically and numerically with geometrical interpretations given. It aims to build on students knowledge of matrix algebra and vector analysis.

**Subject Objectives:** A student who successfully completes this subject should be able to: (i) identify vector spaces and subspaces of vector spaces and find bases for them; (ii) relate row and column spaces and null spaces to the solution of Ax = b and be able to discern relationships between the solution x of a linear system and its coefficient matrix; (iii) determine whether transformations are linear and perform simple geometry of linear transformations in R2; (iv) diagonalise square matrices; (v) solve linear systems numerically by a variety of direct and indirect methods; (vi) use a matrix laboratory package for a variety of algebraic tasks.

**MATH203 Linear Algebra** 6cp
Autumn Wollongong On Campus

Contact Hours: 4 hrs/wk.

Pre-requisites: One of MATH101 or MATH188 or MATH283 or a mark of at least 65 in MATH142.
Co-requisites: none
Restrictions: none
Exclusions: none

**Assessment:** Assignments 20%; Final examination 80%; Compulsory lab assignments.

**Subject Description:** MATH203 is one of four core 200 level Mathematics subjects. The study of systems of linear equations is important not only to mathematicians but also to scientists and engineers. Study of these systems is done both theoretically and numerically with geometrical interpretations given. It aims to build on students knowledge of matrix algebra and vector analysis.

**Subject Objectives:** A student who successfully completes this subject should be able to: (i) evaluate and manipulate relevant integrals in terms of Gamma, Beta and Error functions; (ii) recognise and evaluate integro-differential equations able to be solved by Laplace transform methods, and then solve then; (iii) express relevant functions using their Fourier series or other representations; (iv) solve partial differential equations by separation of variables techniques; (v) compare methods of solving differential equations numerically and assess their accuracy; (vi) use a laboratory package for solving differential equations.

**MATH204 Complex Variables and Group Theory** 6cp
Spring Wollongong On Campus

Contact Hours: 4 hrs/wk.

Pre-requisites: One of MATH101 or MATH188 or MATH283 or a mark of at least 65 in MATH142.
Co-requisites: MATH201
Restrictions: none
Exclusions: none

**Assessment:** Assignments 10%; Final examination 90%.

**Subject Description:** MATH204 is one of four core 200 level Mathematics subjects. It is of substantial value to science and other students. The study of Complex Variables extends the calculus of functions of a real variable to functions of a complex
variable. Group Theory studies basic algebraic properties common to many mathematical systems and is currently applied in the areas of physics, geology and computer science.

Subject Objectives: A student who successfully completes this subject should be able to: (i) use the basic theory of complex valued functions; (ii) determine which functions are differentiable; (iii) recognise and manipulate the elementary complex functions; (iv) evaluate complex valued integrals by a variety of methods; (v) use complex integration to evaluate certain real integrals, and (vi) define and use the fundamental concepts from group theory; (vii) apply the fundamental definitions to groups with special properties; (viii) prove elementary group identities and understand the proof of Lagrange's theorem and some applications; (ix) use the fundamental concepts from group theory and Lagrange's theorem to characterise small finite groups.

MATH212 Applied Mathematical Modelling II 6cp

Spring Wollongong On Campus

Contact Hours: 4 hrs/wk.

Pre-requisites: One of MATH101 or MATH188 or MATH283 or a mark of at least 65 in MATH142.

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Mid-session test 30%; Final examination 70%.

Subject Description: MATH212 is a subject in the applied mathematics strand. The subject provides insight into the process of Applied Mathematical Modelling in two important areas, heat transfer and Newtonian mechanics, though the modelling skills will be transferable to other areas. The main mathematical technique used is that of solving ordinary differential equations.

Subject Objectives: A student who successfully completes this subject should be able to: (i) apply the process of Applied Mathematical Modelling to some physical systems; (ii) illustrate the process with reference to simple Newtonian statics and dynamics; (iii) solve problems involving Newton's Second Law and the use of non-Cartesian coordinates; (iv) use the introductory concepts of continuum mechanics and heat transfer.

MATH222 Continuous and Finite Mathematics 6cp

Autumn Wollongong On Campus

Contact Hours: Information unavailable

Pre-requisites: One of MATH101 or MATH188 or a mark of at least 65 in MATH142.

Co-requisites: MATH201

Restrictions: none

Exclusions: none

Assessment: Assignments, tests and/or essay(s) 15%; Final examination 85%.

Subject Description: MATH222 is for students who wish to continue in the mathematical analysis strand. Continuous Mathematics is concerned with the continuation of concepts introduced in first year calculus, including those of convergent sequence, continuous function and the integral of a function. Finite Mathematics is strictly independent of earlier work, but is related to first year algebra.

Subject Objectives: A student who successfully completes this subject should be able to: (i) construct proofs relating to convergent sequences, continuous functions, sequences and series of functions, and number theory; (ii) identify situations where the interchange of integrals with limiting processes is valid; (iii) calculate the Fourier series of various functions and/or calculate the iterations of some functions, and demonstrate an understanding of some of the problems associated with these procedures; (iv) solve difference equations and present knowledge of some of their applications; (v) describe some topics in number theory and/or combinatorics and of some of their applications; and (vi) demonstrate an appreciation and understanding of the role of proof, problem-solving and clarity of argument in a mathematical context.

MATH235 Mathematics Project A 6cp

Autumn Wollongong On Campus

Spring Wollongong On Campus

Contact Hours: 2.

Pre-requisites: 24 credit points at 100 level including MATH110

Co-requisites: none

Restrictions: This subject is only for students enrolled in the BMath(Advanced) degree

Exclusions: none

Assessment: Assessment will depend upon the content and circumstances of the project, and will be specified in advance for each student. Assessment may include: (1) a written report (2) a spoken presentation (3) evaluation of performance in a business or industrial placement (4) evaluation in part by examination (5) assignments

Subject Description: The subject is a project individually chosen for the student, at a level appropriate to the 200 classification. The content may consist of (1) a placement in business or industry where substantial use is made of mathematical techniques; or (2) a project directed towards independent investigation by the student, written and/or oral presentations, and substantial interaction of the student with the supervisors of the project and other members of staff; or (3) a project directed to mastery of a mathematical package or language, with specific use of the package or language in some application or area of mathematics; or (4) a project of research collaboration with a member or members of staff, of which written and spoken presentation would be a part. Other projects which are appropriate but not primarily in one of these single categories may occur, such as a project combining features of (1) and (2).

Subject Objectives: After successful completion of the subject, and depending upon the nature of the project undertaken, the student should be able to: (i) demonstrate an independent approach to problems and communication and interaction skills in a business/industrial context where use is made of mathematical ideas and procedures, (ii) demonstrate skills of independent thought and investigation, emphasising written and oral communication skills, (iii) demonstrate the development of skills of investigation in the context of computation or mathematical software packages, (iv) show the acquisition of research skills involving interaction with established researchers, (v) write an independent report to a high level of presentation as appropriate to the 200 level classification. However, note that whatever the project is, there is to be an emphasis on written and spoken communication skills and upon the capacity of the student to interact and discuss problems with others.

MATH253 Linear Algebra 4cp

Autumn Wollongong On Campus

Contact Hours: 4.

Pre-requisites: MATH188 a mark of at least 65 in MATH142.

Co-requisites: Nil

Restrictions: none

Exclusions: MATH203
**MATH291 Differential Equations** 3cp  
Spring  
Wollongong  
On Campus  
Contact Hours: 4 hrs/wk.  
Pre-requisites: One of MATH101 or MATH142 or MATH144 or MATH162 or MATH188  
Co-requisites: none  
Restrictions: none  
Exclusions: Not to count with MATH202 or MATH261 or STAT231 or MATH281.  
Assessment: Assignments 30%; Final examination 70%.

**Subject Description:** MATH291 is a subject for Bachelor of Engineering students. The subject consists of two topics, Differential Equations and Statistics. Each topic is worth 50% of the final mark. Differential Equations deals with new techniques, including Laplace transforms, Fourier series, and special functions (gamma, beta and error functions). Statistics gives an introduction to statistical computing, and to basic statistical techniques, including mathematical models for describing variation in experimental situations.  

**Subject Objectives:** As for MATH202.

**MATH292 Numerical Analysis** 3cp  
Spring  
Wollongong  
On Campus  
Contact Hours: Information unavailable  
Pre-requisites: Information unavailable  
Co-requisites: MATH201  
Restrictions: none  
Exclusions: MATH202  
Assessment: As for MATH202.

**Subject Description:** Basic numerical techniques for the solution of differential equations, with application of computer packages, will also be covered. Students will also be expected to assess the comparative accuracy of these techniques.  

**Subject Objectives:** As for MATH202.

**MATH293 Complex Variables** 4cp  
Spring  
Wollongong  
On Campus  
Contact Hours: 3.  
Pre-requisites: One of MATH101 or MATH188 or a mark of at least 65 in MATH142.  
Co-requisites: none  
Restrictions: none  
Exclusions: Not to count with MATH204.  
Assessment: Assignments 10%; Final Examination 90%.

**Subject Description:** Complex functions, power series, analytic functions, Laurent series, singularities, residues, contour integration, Cauchy’s theorem, residue theorem and applications, conformal transformations.  

**Subject Objectives:** As for MATH204.

**MATH294 Group Theory** 2cp  
Spring  
Wollongong  
On Campus  
Contact Hours: 3.  
Pre-requisites: One of MATH101 or MATH188 or a mark of at least 65 in MATH142.  
Co-requisites: none  
Restrictions: none  
Exclusions: MATH204  
Assessment: Assignments 10%; Final Examination 90%.

**Subject Description:** Group Theory consists of a careful study of the fundamental properties of groups using the following concepts: order, finite groups, subgroups, cosets, group homomorphisms and group isomorphisms. This study leads to an important result in Group Theory called Lagrange’s theorem.  

**Subject Objectives:** As for MATH204.

**MATH302 Differential Equations III** 6cp  
Spring  
Wollongong  
On Campus  
Contact Hours: 3 hrs/wk.  
Pre-requisites: MATH283 or MATH202  
Co-requisites: none  
Restrictions: none
and universal conservation laws in the mathematical formulation. A student should be able to: (i) use notions of stress and strain; and fluid mechanics.

Subject Objectives: A student who successfully completes this subject should be able to: (i) evaluate and manipulate relevant integrals in terms of Gamma and Beta functions; (ii) recognize and evaluate higher integro-differential equations able to be solved by Laplace transform methods; (iii) recognize and evaluate integro-differential equations able to be solved by Fourier transform methods; (iv) recognize and evaluate differential equations able to be solved by Taylor or Frobenius methods; (v) recognize, and solve differential equations by the use of the Hypergeometric and Bessel functions.

MATH305 Partial Differential Equations 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: MATH201, 202 and 203
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Laboratory 10%; Assignments 5%; Final examination 85%.

Subject Description: MATH305 is in a central area of mathematics, as many physical problems in the world are modelled with partial differential equations. Various types of equations and their solutions are discussed. As many equations cannot be solved in analytical form, numerical methods of solution also are considered. The aim is to develop high level mathematical ability and problem solving skills.

Subject Objectives: A student who successfully completes this subject should be able to: (i) recognize and solve first order partial differential equations; (ii) classify second order partial differential equations as hyperbolic, elliptic or parabolic; (iii) use appropriate methods of solution for each of the above types; (iv) distinguish between methods of solving partial differential equations according to their type; (v) assess the stability of the numerical methods used to solve partial differential equations; (vi) demonstrate proficiency by using a laboratory package unassisted to successfully solve partial differential equations.

MATH312 Applied Mathematical Modelling III 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: MATH202 or (MATH283 and ENGG252)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 20%; Final examination 80%.

Subject Description: MATH312 builds on work and knowledge originating in MATH111 and MATH212 and shows how to undertake mathematical modelling of many scientific and engineering processes and problems arising in industry. Main foci are: continuum mechanics, including deformation of materials; linear elasticity, including basic concepts of the stress-strain relation; and fluid mechanics.

Subject Objectives: A student who successfully completes this subject should be able to: (i) use notions of stress and strain and universal conservation laws in the mathematical formulation of problems in solid and fluid mechanics; (ii) use and critically appraise the abstract notions of a "perfect fluid", a "perfectly elastic solid" and a "linear elastic solid"; (iii) correctly employ the Cartesian tensor notation and the Einstein summation convention to derive the basic underlying governing equations of fluid and solid mechanics; (iv) derive the simplest known exact solutions of the Navier-Stokes equations and of the governing equations of perfect and linear elasticity.

MATH313 Industrial Mathematical Modelling 6cp
Spring Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: MATH202 or (MATH283 and MECH343)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 10%; Tutorial participation 10%; Final examination 80%.

Subject Description: MATH313 is designed to develop mathematical modelling skills by the examination of case studies relevant to industry. The basic equations are derived from first principles and used to study the transfer of mass and heat, diffusion, solidification and combustion. In addition, the subject aims to improve oral presentation skills by making tutorial participation an assessable component of the subject.

Subject Objectives: A student who successfully completes this subject should be able to: (i) construct a mathematical model for an industrial process involving mass diffusion, heat conduction, change of phase, and combustion; (ii) express such a mathematical model in dimensionless form, identifying the important dimensionless parameters of a process; (iii) solve standard fixed and free boundary value problems of heat conduction; (iv) present and explain mathematical models and their solutions to colleagues/employers.

MATH317 Financial Calculus and Logistics 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: MATH202 and (STAT131 or STAT231)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 20%; Final examination 80%.

Subject Description: MATH317 is an elective subject available to students enrolled in the degree courses primarily offered within this School. The subject consists of two sections: Financial Calculus: This is an introductory mathematical modelling course into the rapidly accelerating area of financial derivatives. It explores the properties of options and provides a theoretical framework within which these options can be valued and hedged. Logistics: This section introduces general principles of mathematical logistics, using inventory modelling as the main example.

Subject Objectives: A student who successfully completes this subject should be able to: 1. explain and apply the mathematical background necessary for pricing options; 2. price European and American options by finding analytical and accurate numerical solutions; 3. construct various risk management strategies and determine their limitations; 4. determine the optimal order quantity of a stock item, given the production costs, holding costs, unit costs and demand pattern; 5. account for the effects of uncertain demand, stockout losses, bulk discounts and continuous production, in inventory planning; 6. construct a Material Requirement Plan.
Subject Descriptions

**MATH321  Numerical Analysis III** 6cp
Spring  Wollongong  On Campus
Contact Hours: 4 hrs/wk.
Pre-requisites: MATH202 and MATH203
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Laboratory assignments 10%; Assignments 10%; Final examination 80%.
Subject Description: MATH321 is designed to extend the ideas developed in MATH202 and MATH203 as to how numerical and computational mathematics can be used to solve problems that have no analytic solution. The foci are problems in linear algebra and applications to real world problems. Specific techniques include algorithms for calculating eigenvalues and eigenvectors of a matrix.

Subject Objectives: A student who successfully completes this course should be able to: (i) perform matrix decomposition by various methods; (ii) determine the effectiveness of various numerical methods; (iii) maximise the efficiency of various algorithms; (iv) identify special matrices and implement appropriate methods; (v) apply singular value decomposition where necessary; (vi) be proficient in the use of a laboratory package for solving numerical linear algebra problems.

**MATH322  Algebra** 6cp
Spring  Wollongong  On Campus
Contact Hours: 3.
Pre-requisites: Either MATH204 or MATH222
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 16%; Test 20%; Final examination 64%.
Subject Description: MATH322 has been designed to develop clear and critical understanding, problem-solving skills and a capacity for rigorous argument. It builds on the group theory section of MATH204, and to a lesser extent upon the finite mathematics section of MATH222. An aim is to develop an appreciation of some of the concepts of modern algebra, including the work leading to the classification of finite simple groups completed around 1980.

Subject Objectives: A student who successfully completes this subject should be able to: (i) distinguish the properties of Abelian and non-commutative groups; (ii) demonstrate, with proofs, an understanding of the basic properties of finite groups, (iii) demonstrate an ability to determine the structure of groups of small order; (iv) demonstrate basic knowledge of commutative rings, integral domains and fields; (v) demonstrate an ability to determine the structure of finite fields of prime power order; (vi) have some appreciation of the problem of classification of finite simple groups.

**MATH323  Topology and Chaos** 6cp
Autumn  Wollongong  On Campus
Contact Hours: 3.
Pre-requisites: MATH222
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments and Tutorial work 40%; Final examination 60%.
Subject Description: MATH323 aims to develop critical understanding and problem-solving skills in the context of topology and chaos theory. It is intended to convey some of the impact of chaos theory in other areas and encourage interest of the student in phenomena such as the Koch curve. Some concepts discussed are notions of distance, dynamical systems, fractals and the Mandelbrot set.

Subject Objectives: Students who successfully complete this subject should be able to: (i) define some of the basic concepts of topology; (ii) see connections between topological ideas and chaotic phenomena; (iii) deduce some elementary results for chaotic phenomena; (iv) apply some results of fixed point theory to derive some results in mathematical analysis; (v) use and appreciate the need for rigorous argument when proving results in topology and chaos; (vi) illustrate the way in which topological concepts can clarify and enhance the understanding of some topics in other areas.

**MATH345  Mathematics Project B** 6cp
Autumn  Wollongong  On Campus
Spring  Wollongong  On Campus
Contact Hours: 3.
Pre-requisites: 24 credit points at 200 level
Co-requisites: none
Restrictions: This subject is only for students enrolled in the BMath(Advanced) degree
Exclusions: none
Assessment: Assessment will depend upon the content and circumstances of the project, and will be specified in advance for each student. Assessment may include: (1) a written report (2) a spoken presentation (3) evaluation of performance in a business or industrial placement (4) evaluation in part by examination (5) assignments
Subject Description: The subject is a project individually chosen for the student, at a level appropriate to the 300 classification. The content may consist of (1) a placement in business or industry where substantial use is made of mathematical techniques; or (2) a project directed towards independent investigation by the student, written and/or oral presentations, and substantial interaction of the student with the supervisors of the project and other members of staff; or (3) a project directed to mastery of a mathematical package or language, with specific use of the package or language in some application or area of mathematics; or (4) a project of research collaboration with a member or members of staff, of which written and spoken presentation would be a part. Other projects which are appropriate but not primarily in one of these single categories may occur, such as a project combining features of (1) and (2).

Subject Objectives: After successful completion of the subject, and depending upon the nature of the project undertaken, the student should be able to: (i) demonstrate an independent approach to problems and communication and interaction skills in a business/industrial context where use is made of mathematical ideas and procedures, (ii) demonstrate skills of independent thought and investigation, emphasising written and oral communication skills, (iii) demonstrate the development of skills of investigation in the context of computation or mathematical software packages, (iv) show the acquisition of research skills involving interaction with established researchers, (v) write an independent report to a high level of presentation as appropriate to the 300 level classification. However, note that whatever the project is, there is to be an emphasis on written and spoken communication skills and upon the capacity of the student to interact and discuss problems with others.
MATH371 Special Topics in Industrial and Applied Mathematics III 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assessment methods will be determined after specification of objectives.
Subject Description: Entry to this subject is at the discretion of the Head of the School of Mathematics and Applied Statistics. This subject may not be offered in any particular year. MATH371 is one of a number of elective subjects available to students enrolled in the degree courses offered by the School. The aim of this subject is to provide students with specialist applied mathematical skills. Topics will be selected from the areas of interest of staff members of the School or visiting staff members.
Subject Objectives: information unavailable

MATH372 Special Topics in Mathematical Analysis III 6cp
Spring Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: At discretion of Head of School
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assessment methods will be determined after specification of objectives.
Subject Description: Entry to this subject is at the discretion of the Head of the School of Mathematics and Applied Statistics. This subject may not be offered in any particular year. MATH372 is one of a number of elective subjects available to students enrolled in the degree courses offered by the School. The aim of the subject is to provide students with advanced mathematical concepts and skills. Topics will be selected from the areas of interest of staff members of the School or visiting staff members.
Subject Objectives: information unavailable

MATH401 Mathematics IV (Honours) 48cp
Annual Wollongong On Campus
Spring Wollongong On Campus
2002/Autumn 2003
Contact Hours: 10 hrs/wk.
Pre-requisites: At discretion of Head of School
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: The coursework component is worth 70% of the total assessment in the subject MATH401. The Project is worth 30%.
Subject Description: A candidate must select 7 topics (a candidate may select 8 or more topics with approval from the Head of the School) from those on offer at the 400 level in Mathematics and Statistics. The topics are usually sessional, and a candidate will normally take 4 topics in one session, 3 in the other. With the approval of the Head of the School, up to 2 of these topics may be replaced by 300 level Mathematics and Statistics subjects that may be considered appropriate to complement a particular candidate's previous undergraduate studies. A candidate will complete a Project in an area of interest under the close supervision of one or more members of staff of the School.
Subject Objectives: A student who successfully completes this subject should be able to: (i) identify and demonstrate a range of mathematical techniques used extensively in current research; (ii) explain the arguments presented in a range of research publications in at least one branch of mathematics, with the aid of a library; (iii) identify appropriate books, journals, software, reviews and bibliographies when faced with a new project; (iv) communicate effectively the results of their investigations to others.

MATH411 Mathematical Sciences Honours Project A 12cp
Annual Wollongong On Campus
Contact Hours: 8 hrs/wk.
Pre-requisites: Subject to approval of head of school
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Report 80%; Seminar 20%.
Subject Description: MATH411 is a final year honours subject for Mathematics-Statistics/Science strand students. It is a project conducted under the supervision of one or more relevant members of academic staff. The aim is to provide students with mathematical skills which can be used effectively in scientific work.
Subject Objectives: A student who successfully completes this subject should be able to: (i) identify and demonstrate a range of mathematical techniques used extensively in current scientific research; (ii) explain the arguments presented in a range of research publications in at least one branch of mathematics, with the aid of a library; (iii) identify appropriate books, journals, software, reviews and bibliographies when faced with a new project; (iv) communicate effectively the results of their investigations to others.

MATH412 Mathematical Sciences Honours Project B 12cp
Annual Wollongong On Campus
Contact Hours: 8 hrs/wk.
Pre-requisites: Subject to approval of head of school
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Report 80%; Seminar 20%.
Subject Description: MATH412 is a final year honours subject for Mathematics-Geoscience and Mathematics/Ecology strands students. It is a project conducted under the supervision of one or more relevant members of academic staff. The aim is to provide students with mathematical skills which can be used effectively in scientific work.
Subject Objectives: A student who successfully completes this subject should be able to: (i) identify and demonstrate a range of mathematical techniques used extensively in current scientific research; (ii) explain the arguments presented in a range of research publications in at least one branch of mathematics, with the aid of a library; (iii) identify appropriate books, journals, software, reviews and bibliographies when faced with a new project; (iv) communicate effectively the results of their investigations to others.

MATH411 Mathematical Sciences Honours Project A 12cp
Annual Wollongong On Campus
Contact Hours: 8 hrs/wk.
Pre-requisites: Subject to approval of head of school
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Report 80%; Seminar 20%.
Subject Description: MATH411 is a final year honours subject for Mathematics-Statistics/Science strand students. It is a project conducted under the supervision of one or more relevant members of academic staff. The aim is to provide students with mathematical skills which can be used effectively in scientific work.
Subject Objectives: A student who successfully completes this subject should be able to: (i) identify and demonstrate a range of mathematical techniques used extensively in current scientific research; (ii) explain the arguments presented in a range of research publications in at least one branch of mathematics, with the aid of a library; (iii) identify appropriate books, journals, software, reviews and bibliographies when faced with a new project; (iv) communicate effectively the results of their investigations to others.
MATH471 Honours Topics in Mathematics A 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: Subject to approval of Head of School
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 20%; Final examination 80%.
Subject Description: MATH471, MATH472, MATH473 and MATH474 are offered to BMathEcon, BMathFin, and BMathSc candidates. The aim of each of these subjects is to provide students with mathematical skills which can be used effectively in the relevant discipline. Students may be required to present some part of the course to the rest of the class, in a working seminar. The content is a topic from those offered in a particular year at 400-level within the subject MATH401, and which may vary from year to year.
Subject Objectives: information unavailable

MATH472 Honours Topics in Mathematics B 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: Note 1
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 20%; Final examination 80%.
Subject Description: MATH471, MATH472, MATH473 and MATH474 are offered to BMathEcon, BMathFin, and BMathSc candidates. The aim of each of these subjects is to provide students with mathematical skills which can be used effectively in the relevant discipline. Students may be required to present some part of the course to the rest of the class, in a working seminar. The content is a topic from those offered in a particular year at 400-level within the subject MATH401, and which may vary from year to year.
Subject Objectives: information unavailable

MATH473 Honours Topics in Mathematics C 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: WAM 367.5 or subject to approval of Head of School
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 20%; Final examination 80%.
Subject Description: MATH471, MATH472, MATH473 and MATH474 are offered to BMathEcon, BMathFin, and BMathSc candidates. The aim of each of these subjects is to provide students with mathematical skills which can be used effectively in the relevant discipline. Students may be required to present some part of the course to the rest of the class, in a working seminar. The content is a topic from those offered in a particular year at 400-level within the subject MATH401, and which may vary from year to year.
Subject Objectives: information unavailable

MATH474 Honours Topics in Mathematics D 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: WAM 367.5 or subject to approval of Head of School
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 20%; Final examination 80%.
Subject Description: MATH471, MATH472, MATH473 and MATH474 are offered to BMathEcon, BMathFin, and BMathSc candidates. The aim of each of these subjects is to provide students with mathematical skills which can be used effectively in the relevant discipline. Students may be required to present some part of the course to the rest of the class, in a working seminar. The content is a topic from those offered in a particular year at 400-level within the subject MATH401, and which may vary from year to year.
Subject Objectives: information unavailable

STAT131 Understanding Variation and Uncertainty 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 6 hrs/wk.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments, Portfolio of In-Session work, Mid­session test 50%; Examination 50%
Subject Description: Variation and uncertainty occur in most aspects of life. Topics covered include Displaying variation and summarising data; Statistical computing and report writing; Probability Models: Markov Chains, binomial, Poisson; Modelling Uncertainty: Normal and other continuous distributions; Sampling Distributions - Central Limit Theorem; Inference - Point and Interval Estimation, Hypothesis Testing.
Subject Objectives: A student who successfully completes this subject should be able to: (i) produce numerical and graphical data summaries and use them as exploratory tools with univariate and bivariate data; (ii) correctly apply the principles of graphical integrity and excellence; (iii) apply probabilistic concepts to build stochastic models, especially Markov chains, and to build statistical models, especially the Normal, Binomial, Poisson and Exponential Distributions; (iv) explain the relationship between samples and populations and use statistical models to derive statistical properties of random samples; (v) describe the principles of statistical inference, find point and interval estimates of population parameters, carry out tests of hypotheses, and explain the meaning and use of p-values.

STAT151 Introduction to the Concepts and Practice of Statistics 6cp
Spring Wollongong On Campus
Contact Hours: 4 hrs/wk.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with STAT131 or STAT252
Assessment: Assignments and In-Session tests 40%; Examination 60%
Subject Description: STAT151 enables students to understand the statistical content of articles in their own discipline. Includes exploratory data analysis; samples and populations; elementary probability; the Normal, binomial and Poisson distributions; estimation and confidence intervals; hypothesis testing for means, proportions and regression analysis; sensitivity and specificity.

Subject Objectives: A student who successfully completes this subject should be able to: (i) apply Exploratory Data Analysis, both with and without use of a statistical package, and present the conclusions of that analysis; (ii) explain concepts involved in designing experiments and collecting data; (iii) interpret and model practical problems, by application of sensitivity/specificity analysis, and by use of the Normal, Binomial and Poisson distributions; (iv) select and apply appropriate statistical techniques, including confidence intervals, one and two-sample tests, chi-squared contingency table tests, and linear regression; (v) critically evaluate and draw conclusions from health research papers which use simple statistical tools.

STAT171 Understanding Variation and Risk 6cp

Subject Description: Variation and uncertainty occur in most aspects of life. Topics covered include Displaying variation and summarising data; Statistical computing and report writing; Probability Models: Markov Chains, binomial, Poisson; Modelling Uncertainty: Normal and other continuous distributions; Sampling Distributions - Central Limit Theorem; Inference - Point and Interval Estimation, Hypothesis Testing.

Subject Objectives: A student who successfully completes this subject should be able to: (i) produce numerical and graphical data summaries and use them as exploratory tools with univariate and bivariate data; (ii) correctly apply the principles of graphical integrity and excellence; (iii) apply probabilistic concepts to build stochastic models, especially Markov chains, and to build statistical models, especially the Normal, Binomial, Poisson and Exponential Distributions; (iv) explain the relationship between samples and populations and use statistical models to derive statistical properties of random samples; (v) describe the principles of statistical inference, find point and interval estimates of population parameters, carry out tests of hypotheses, and explain the meaning and use of p-values.

STAT231 Probability and Random Variables 6cp

Subject Description: STAT231 applies statistical tools to the modelling and analysis of random experiments. Includes graphical and numerical data presentation; statistical computing; discrete random variables (binomial, geometric, hypergeometric and Poisson) and continuous random variables (uniform, Normal and gamma); expected values; transformations; moment generating functions; multivariate distributions; the Poisson process.

Subject Objectives: A student who successfully completes this subject should be able to: (i) apply Exploratory Data Analysis, both with and without use of a statistical package, and present the conclusions of that analysis; (ii) interpret and model practical problems; (iii) explain the basic concepts of probability and distribution theory; (iv) derive distributions from models and by transformations; (v) derive the moments of distributions directly and by using moment generating functions; (vi) simulate various random variables.

STAT232 Estimation and Hypothesis Testing 6cp
presentation would be a part. Other projects which are appropriate but not primarily in one of these single categories may occur, such as a project combining features of (1) and (2) above.

Subject Objectives: After successful completion of the subject, and depending upon the nature of the project undertaken, the student should be able to: (i) demonstrate an independent approach to problems and communication and interaction skills in a business/industrial context where use is made of statistical ideas and procedures, (ii) demonstrate skills of independent thought and investigation, emphasising written and oral communication skills, (iii) demonstrate the development of skills of investigation in the context of computation or statistical software packages, (iv) show the acquisition of research skills involving interaction with established researchers, (v) write an independent report to a high level of presentation as appropriate to the 200 level classification. However, note that whatever the project is, there is to be an emphasis on written and spoken communication skills and upon the capacity of the student to interact and discuss problems with others.

STAT252 Statistics For the Natural Sciences 6cp
Spring     Wollongong  On Campus
Contact Hours: 4 hrs/wk.
Pre-requisites: 24 credit points
Co-requisites: none
Restrictions: none
Exclusions: Not to count with STAT131 or STAT151 or STAT231 or STAT232 or PSYC232
Assessment: Assignments 25%; Mid-Term Test 10%; Examination 65%
Subject Description: STAT252 provides an introduction to statistical techniques. Topics covered are: data presentation; probability, binomial and Poisson distributions; Normal distribution; inference for single samples; comparison of two samples; analysis of variance and multiple comparisons; linear regression and correlation; goodness-of-fit testing and contingency tables.

Subject Objectives: A student who successfully completes this subject should be able to: (i) select an appropriate simple experimental design; (ii) apply and interpret Exploratory Data Analysis; (iii) explain basic concepts of hypothesis testing and estimation; (iii) analyse categorical data and proportions; (iv) implement basic statistical procedures, both parametric and non-parametric, for single and multiple samples, using both calculator and tables and also a computer package; (v) select appropriate models and procedures for practical problems; (vi) present the conclusions of a statistical analysis in the context of the particular application.

STAT291 Engineering Statistics 3cp
Autumn     Wollongong  On Campus
Contact Hours: 3.
Pre-requisites: MATH142 or MATH188
Co-requisites: none
Restrictions: none
Exclusions: Not to count with STAT231.
Assessment: information unavailable
Subject Description: (Part of MATH283) In this topic, methods of collecting and summarising data are discussed. Statistical inference methods concerning population means, proportions and variances are given. Linear and multiple regression methods are used to develop mathematical relationships among variables and to predict variables of interest. Some basic advantages of using experimental planning are discussed. Latin square and randomised block experimental designs are discussed. Students will be introduced to a major statistical package.

Subject Objectives: A student who successfully completes this topic (Statistics) should be able to: (i) apply and interpret Exploratory Data Analysis, both using a calculator and using a statistical computer package; (ii) explain basic concepts of hypothesis testing and estimation; (iii) analyse categorical data and proportions; (iv) implement basic statistical procedures, both parametric and non-parametric, for single and multiple samples, using both calculator and tables and also a computer package; (v) select appropriate models and procedures for practical problems; (vi) present the conclusions of a statistical analysis in the context of the particular application.

STAT304 Operations Research and Applied Probability 6cp
Spring     Wollongong  On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: Either (MATH188 and [STAT131 or STAT231]) or MATH283
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 25%; Examination 75%
Subject Description: The operations research component includes linear programming, simplex algorithm, duality, sensitivity analysis, transportation and assignment problems, integer programming, and use of computer software. The applied probability component includes Markov chains, birth and death processes and queuing theory.

Subject Objectives: A student who successfully completes this subject should be able to: (i) formulate practical optimisation problems as linear programming, transportation or assignment problems; (ii) apply the Simplex Algorithm, both manually and using a computer package, to solve linear programming problems; (iii) conduct sensitivity analysis on solved linear programming problems via duality theory; (iv) formulate models for random processes or systems as Markov chains or other stochastic processes; (v) simulate various stochastic processes; (vi) analyse the probabilistic behaviour of simple stochastic processes.

STAT332 Multiple Regression and Time Series 6cp
Spring     Wollongong  On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: STAT232
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 40%; Examination 60%
Subject Description: STAT332 is an advanced course covering relationships between variables and the analysis of observational studies and designed experiments. Topics covered include multiple linear regression, non-linear regression, generalised linear regression, ARIMA models, forecasting of time series and Box-Jenkins approach.

Subject Objectives: A student who successfully completes this subject should be able to: (i) explain the theory and techniques of model building; (ii) apply the theory and techniques to practical problems and to use these methods for prediction purposes; (iii) undertake model building and forecasting for problems representative of those arising in industry and commerce.
STAT333 Statistical Inference and Multivariate Analysis 6cp

Autumn Wollongong On Campus

Contact Hours: 3 hrs/wk.
Pre-requisites: STAT232
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 25%; Examination 75%.

Subject Description: STAT333 covers inference (estimation and hypothesis testing) in both one and many dimensions. Topics covered include transformations, maximum likelihood and minimum variance unbiased estimation, the likelihood ratio, score and Wald tests, vector random variables, the multivariate Normal distribution, principal components analysis, factor analysis and discriminant analysis.

Subject Objectives: A student who successfully completes this subject should be able to (i) explain the principles of statistical inference and the use of some standard procedures; (ii) derive good parameter estimators and tests of hypotheses in a wide range of circumstances; (iii) perform various forms of inference when the type of distribution being considered is unknown; (iv) explain the general techniques of considering more than one dependent variable at a time; (v) apply appropriate statistical procedures to the analysis of multivariate data; (vi) apply and interpret appropriate procedures from a statistical package such as SAS.

STAT335 Sample Surveys and Experimental Design 6cp

Autumn Wollongong On Campus

Contact Hours: 3 hrs/wk.
Pre-requisites: STAT232 or STAT252 at Credit level or better, or STAT151 at Credit level or better, or PSYC232 at Credit level or better, or ECON121 at Credit or better, or (STAT131 & STAT231 both at Credit or better)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 25%; Examination 75%.

Subject Description: STAT335 develops skills in designing and analysing statistical investigations. Statistical computing is an essential part of the course. Topics covered: Experimental designs: completely randomised, randomised complete block, Latin Square, factorial; the analysis of the data arising from these designs. Steps in conducting a sample survey; methods such as simple random sampling and stratified sampling, number raised and ratio estimation.

Subject Objectives: A student who successfully completes this subject should be able to: (i) explain the importance of proper planning of experiments and sample surveys; (ii) identify the major pitfalls associated with the collection and analysis of data; (iii) evaluate different methods of collecting and analysing data; (iv) design simple experiments and sampling schemes; (v) determine the sample sizes required in experiments and sample surveys; (vi) analyse the results of a simple experiment; (vii) evaluate critically the methodology used in a survey and the validity of the results; (viii) present conclusions in a clear and simple manner.

STAT345 Statistics Project B 6cp

Autumn Wollongong On Campus

Spring Wollongong On Campus

Contact Hours: 3.
Pre-requisites: 24 credit points at 200 level
Co-requisites: none
Restrictions: The subject is only for students enrolled in the BMath(Advanced) degree
Exclusions: none
Assessment: Will depend upon the content and circumstances of the project, and will be specified in advance for each student. Assessment may include: (1) a written report; (2) a spoken presentation; (3) evaluation of performance in a business or industrial placement; (4) evaluation in part by examination (5) assignments

Subject Description: The subject is a project individually chosen for the student, at a level appropriate to the 300 classification. The content may consist of (1) a placement in business or industry where substantial use is made of statistical techniques; or (2) a project directed towards independent investigation by the student, written and/or oral presentations, and substantial interaction of the student with the supervisors of the project and other members of staff; or (3) a project directed to mastery of a statistical package or language, with specific use of the package or language in some application or area of statistics; or (4) a project of research collaboration with a member or members of staff, of which written and spoken presentation would be a part. Other projects which are appropriate but not primarily in one of these single categories may occur, such as a project combining features of (1) and (2) above.

Subject Objectives: After successful completion of the subject, and depending upon the nature of the project undertaken, the student should be able to: (i) demonstrate an independent approach to problems and communication and interaction skills in a business/industrial context where use is made of statistical ideas and procedures, (ii) demonstrate skills of independent thought and investigation, emphasising written and oral communication skills, (iii) demonstrate the development of skills of investigation in the context of computation or statistical software packages, (iv) show the acquisition of research skills involving interaction with established researchers, (v) write an independent report to a high level of presentation as appropriate to the 300 level classification. However, note that whatever the project is, there is to be an emphasis on written and spoken communication skills and upon the capacity of the student to interact and discuss problems with others.

STAT355 Sample Surveys and Experimental Design (with Project) 6cp

Autumn Wollongong On Campus

Contact Hours: 2 hrs lectures; 1 hrs tutorial; consultation with supervisor.
Pre-requisites: STAT232 or STAT252 at Credit level or better, or STAT151 at Credit level or better, or PSYC232 at Credit level or better, or ECON121 at Credit or better, or (STAT131 & STAT231 both at Credit or better)
Co-requisites: none
Restrictions: none
Exclusions: STAT335
Assessment: Assignments 20%; Project 25%; Examination 55%.
Subject Description: STAT355 develops skills in designing and analysing statistical investigations. Statistical computing is an essential part of the course. Topics covered: Experimental designs: completely randomised, randomised complete block, Latin Square, factorial; the analysis of the data arising from these designs. Steps in conducting a sample survey; methods such as simple random sampling and stratified sampling, number raised and ratio estimation.

Subject Objectives: A student who successfully completes this subject should be able to: (i) identify the importance of proper planning of experiments and sample surveys; (ii) design and conduct experiments and sample surveys; (iii) determine the sample sizes required in experiments and sample surveys; (iv) evaluate critically the methodology used in a survey and the validity of the results; (v) present conclusions in a clear and simple manner.

STAT373 Special Topics in Applied Statistics III 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 3 hrs/wk.
Pre-requisites: Entry to this subject is at the discretion of the Head of the School of Mathematics and Applied Statistics. This subject may not be offered in any particular year.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: A combination of assignments, projects, mid-session and examination.

Subject Description: STAT373 will be available at the discretion of the Head of the School. Topics will be selected from areas of expertise of visiting staff members, or from other subjects offered by the School of Mathematics and Applied Statistics.

Subject Objectives: Where the content is in an area of expertise of a visiting staff member, the objectives will be advised when the subject is offered.

STAT401 Statistics IV (Honours) 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: 10 hrs/wk.
Pre-requisites: At least 36 cp of maths 300 level subjects, and the approval of the Head of School.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Coursework 70%; Project 30%.

Subject Description: The subject consists of two components, one being coursework, the other a project. Coursework Requirements: A candidate must select seven topics from those on offer at the 400 level in Statistics and Mathematics to satisfy the requirements of this part of the course. The topics are usually sessional, and a candidate will normally take four topics in one session and three in the other. With the approval of the Head of the School, up to two of these topics may be replaced by 300 level Statistics and Mathematics subjects that may be considered appropriate to complement a particular candidate's previous undergraduate studies.

Subject Objectives: A student who successfully completes this subject should be able to: (i) identify and demonstrate a range of statistical and mathematical skills; (ii) explain, with the possibility of appropriate selection of books, journals, software, reviews and bibliographies, when faced with a new project; (iv) successfully complete a research project in Statistics, and to make a major contribution to quantitative research projects in other disciplines; (v) communicate and liaise effectively with other researchers.

STAT411 Mathematical Sciences Honours Project B 12cp
Annual Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: Subject to approval by Head of School
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Seminar 70%; Project Report 30%.

Subject Description: STAT411 and STAT412 are only offered to BMathSc candidates. Students will acquire statistical skills which can be used effectively in scientific work. These subjects are projects conducted under the supervision of one or more relevant members of academic staff.

Subject Objectives: information unavailable

STAT412 Mathematical Sciences Honours Project B 12cp
Annual Wollongong On Campus
Contact Hours: 2.
Pre-requisites: Subject to approval of Head of School
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Seminar 70%; Project Report 30%.

Subject Description: STAT411 and STAT412 are only offered to BMathSc candidates. Students will acquire statistical skills which can be used effectively in scientific work. These subjects are projects conducted under the supervision of one or more relevant members of academic staff.

Subject Objectives: information unavailable

STAT471 Honours Topics in Statistics A 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2.
Pre-requisites: MATH188
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 25%; Examination 75%.

Subject Description: STAT471, STAT472, STAT473 and STAT474 are only offered to BMathFin, BMathEcon and BMathSc candidates. Students will acquire statistical skills which can be used effectively in scientific work. A topic from those offered in a particular year at 400-level within the subject STAT401, and which may vary from year to year.

Subject Objectives: information unavailable
STAT472 Honours Topics in Statistics B 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2
Pre-requisites: MATH188
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 25%; Examination 75%
Subject Description: STAT471, STAT472, STAT473 and STAT474 are only offered to BMathFin, BMathEcon and BMathSc candidates. Students will acquire statistical skills which can be used effectively in scientific work. A topic from those offered in a particular year at 400-level within the subject STAT401, and which may vary from year to year.
Subject Objectives: information unavailable

STAT473 Honours Topics in Statistics C 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2
Pre-requisites: MATH188
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 25%; Examination 75%
Subject Description: STAT471, STAT472, STAT473 and STAT474 are only offered to BMathFin, BMathEcon and BMathSc candidates. Students will acquire statistical skills which can be used effectively in scientific work. A topic from those offered in a particular year at 400-level within the subject STAT401, and which may vary from year to year.
Subject Objectives: information unavailable

STAT474 Honours Topics in Statistics D 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 2
Pre-requisites: MATH188
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 25%; Examination 75%
Subject Description: STAT471, STAT472, STAT473 and STAT474 are only offered to BMathFin, BMathEcon and BMathSc candidates. Students will acquire statistical skills which can be used effectively in scientific work. A topic from those offered in a particular year at 400-level within the subject STAT401, and which may vary from year to year.
Subject Objectives: information unavailable

INFO401 Mathematics and Finance Honours Project 12cp
Annual Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: WAM greater than or equal to 67.5 after completing 144 cp of the course.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Examination of written work, and a seminar.
Subject Description: This is a project conducted under the supervision of one or more relevant members of academic staff. The topic of the work is determined jointly by the student and supervisor.
Subject Objectives: information unavailable

INFO402 Mathematics and Economics Honours Project 12cp
Spring 2002/ Wollongong On Campus
Annual Wollongong On Campus
Spring 2003 Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: WAM greater than or equal to 67.5 after completing 144 cp of the course.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Examination of written work, and a seminar.
Subject Description: This is a project conducted under the supervision of one or more relevant members of academic staff. The topic of the work is determined jointly by the student and supervisor.
Subject Objectives: information unavailable

INFO404 Mathematics and Economics Honours Project 6cp
Spring Wollongong On Campus
Contact Hours: 2
Pre-requisites: MATH188
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 15%; Final examination 85%
Subject Description: This is a project conducted under the supervision of one or more relevant members of academic staff. The topic of the work is determined jointly by the student and supervisor.
Subject Objectives: information unavailable

INFO407 Mathematics and Economics Honours Project 6cp
Annual Wollongong On Campus
Spring Wollongong On Campus
Summer Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: MATH188
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 15%; Final examination 85%
Subject Description: This is a project conducted under the supervision of one or more relevant members of academic staff. The topic of the work is determined jointly by the student and supervisor.
Subject Objectives: information unavailable

INFO408 Mathematics and Economics Honours Project 6cp
Spring 2002/ Wollongong On Campus
Annual Wollongong On Campus
Spring 2003 Wollongong On Campus
Contact Hours: 2 hrs/wk.
Pre-requisites: WAM greater than or equal to 67.5 after completing 144 cp of the course.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Examination of written work, and a seminar.
Subject Description: This is a project conducted under the supervision of one or more relevant members of academic staff. The topic of the work is determined jointly by the student and supervisor.
Subject Objectives: information unavailable

INFO409 Mathematics and Economics Honours Project 6cp
Spring Wollongong On Campus
Contact Hours: 2
Pre-requisites: MATH188
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 15%; Final examination 85%
Subject Description: This is a project conducted under the supervision of one or more relevant members of academic staff. The topic of the work is determined jointly by the student and supervisor.
Subject Objectives: information unavailable

INFO410 Mathematics and Economics Honours Project 6cp
Spring Wollongong On Campus
Contact Hours: 2
Pre-requisites: MATH188
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 15%; Final examination 85%
Subject Description: This is a project conducted under the supervision of one or more relevant members of academic staff. The topic of the work is determined jointly by the student and supervisor.
Subject Objectives: information unavailable

INFO411 Data Mining and Knowledge Discovery 6cp
Spring Wollongong On Campus
Contact Hours: 2
Pre-requisites: 36 cp (Knowledge of mathematical and statistical notation at an introductory level.)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Projects and Assignments (40%) Exam (60%)
Subject Description: Introduction to Data Mining and Knowledge Discovery, Data Bases and Warehouses, Data Structures, Exploratory Data Analysis Techniques, Association Rules, Artificial Neural Networks, Tree Based Methods, Clustering and Classification Methods, Regression Methods, Overfitting and Inferential issues, Use of Data Mining packages.
Subject Objectives: To provide students with the knowledge and understanding to plan and carry out analyses of large and complex data sets to identify useful relationships and important subgroups.

INFO412 Mathematics for Cryptography 6cp
Autumn Wollongong On Campus
Contact Hours: 4
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments 15%; Final examination 85%
Subject Objectives: After successful completion of this subject students should be able to: (i) apply a knowledge of elementary logic to the simplification and designing of electrical circuits; (ii) prove theorems various classical and nonclassical logics; (iii) apply knowledge of number theory and group theory to the implementation of some modern methods of cryptography; (iv) apply basic notions from combinatorics, game theory and linear programming to cryptography.

INFO413 Information Theory 6cp
Spring Wollongong On Campus
Contact Hours: 3.
Pre-requisites: MATH121 or MATH122 or (MATH187 and MATH188), or (MATH141 and MATH142).
Co-requisites: nil
Restrictions: none
Exclusions: none
Assessment: Assignments 16%, test 20%, final examination 64%

Subject Description: The following is a selection of topics which may vary. The idea of probability, entropy, inequalities involving entropy, data compression, Huffman and Fano codes, information sources, McMillan's theorem, communication and capacity, block codes, Shannon's theorems, applications to other areas which may include communication, linguistics, genetics and financial investment.

Subject Objectives: One aim is to develop a critical and analytical understanding of information theory, especially by means of precise formulation of central concepts such as information, entropy, and compression of information. Another aim is to develop an understanding and appreciation of how these concepts relate to other disciplinary areas.
Degrees Offered

Bachelor of Laws (LLB) - 3 year course
Bachelor of Laws (LLB) - 4 year course
Bachelor of Arts - Bachelor of Laws (BA,LLB)
Bachelor of Commerce - Bachelor of Laws (BCom,LLB)
Bachelor of Computer Science - Bachelor of Laws (BCompSc,LLB)
Bachelor of Creative Arts - Bachelor of Laws (BCA,LLB)
Bachelor of Engineering - Bachelor of Laws (BE,LLB)
Bachelor of Information and Communication Technology - Bachelor of Laws (BInfoTech, LLB)
Bachelor of Mathematics - Bachelor of Laws (BMath,LLB)
Bachelor of Medical Science - Bachelor of Laws (BMedSc, LLB)
Bachelor of Science - Bachelor of Laws (BSc,LLB)
Legal Studies (as part of a Bachelor of Commerce or Bachelor of Arts)

Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/, or contact the relevant Faculty.
Course Structures

Bachelor of Laws
(3 year course)
A candidate who wishes to undertake the award of the degree of Bachelor of Laws (3 year course) must have qualified for
admission to a degree of bachelor in this University or an approved equivalent qualification at the date of first enrolment and
registration for the course.
To qualify for the award of the degree of Bachelor of Laws a candidate who is not enrolled in a double degree course must
complete, satisfactorily and independently, each of (a) and (b) as follows:
  a) all compulsory Law subjects;
  b) elective subjects to the value of 32 credit points.
To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314 from the elective schedule.

Bachelor of Laws
(4 year course)
A candidate who wishes to undertake the award of the degree of Bachelor of Laws (4 year course) must be at least 25 years
old at the date of first enrolment and registration for the course.
To qualify for the award of the degree of Bachelor of Laws a candidate who is not enrolled in a double degree course must
complete, satisfactorily and independently, each of (a) and (b) as follows:
  a) all compulsory Law subjects;
  b) elective subjects to the value of 64 credit points.
To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314 from the list of electives.

Bachelor of Arts - Bachelor of Laws
Course requirements
To qualify for the award of the degrees of Bachelor of Arts - Bachelor of Laws a candidate must complete, satisfactorily and
independently, each of (a), (b) and (c) as follows:
  a) all compulsory Law subjects;
  b) elective subjects to the value of 56 credit points; to be eligible for the award of Honours, candidates must complete either
     LLB313 or LLB314;
  c) subjects, not having the prefix LAW or LLB, selected from one or more of the Arts Schedule, the General Schedule or the
     Health and Behavioural Sciences Schedule and having a value of at least 90 credit points of which:
     i) at least 72 credit points, including a major study shall be for subjects selected from either the Arts Schedule or the
        Health and Behavioural Sciences Schedule,
     ii) no more than 48 credit points shall be for 100-level subjects,
     iii) at least 36 credit points shall be for subjects offered by member academic units of the Faculty of Arts.

Bachelor of Commerce - Bachelor of Laws
Course requirements
To qualify for the award of the degrees of Bachelor of Commerce - Bachelor of Laws a candidate must complete, satisfactorily
and independently, each of (a), (b) and (c) as follows:
  a) all compulsory Law subjects;
  b) elective subjects to the value of 56 credit points; to be eligible for the award of Honours, candidates must complete either
     LLB313 or LLB314;
  c) subjects selected from the General Schedule, including the satisfactory completion of:
     i) compulsory subjects
     ii) an approved Commerce major except for a Legal Studies major, and
     iii) subjects with a value of at least 90 credit points, consisting of (i) and (ii) and excluding subjects listed in (a) and (b),
         except,
     iv) where the subjects in (i) and (ii) have the prefix LAW, the equivalent LLB subjects must be substituted.
Bachelor of Computer Science - Bachelor of Laws

Course requirements
To qualify for the award of the degrees of Bachelor of Computer Science - Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

a) all compulsory Law subjects;

b) elective subjects to the value of 48 credit points; to be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

c) subjects selected from either or both of the Computer Science Schedule or the General Schedule having a value of at least 108 credit points of which:
   i) at least 84 credit points, including a major study shall be for subjects selected from the Computer Science Schedule,
   ii) no more than 48 credit points shall be for 100-level subjects,
   iii) at least 12 credit points, in addition to the 24 credit points in the major study shall be for 300-level subjects.

Bachelor of Creative Arts - Bachelor of Laws

Course requirements
To qualify for the award of the degrees of Bachelor of Creative Arts - Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

a) all compulsory Law subjects;

b) elective subjects to the value of 48 credit points; to be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

c) a major study (comprising 108 credit points) as approved by Creative Arts.

Bachelor of Engineering - Bachelor of Laws

Course requirements
To qualify for the award of the degrees of Bachelor of Engineering - Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

a) all compulsory Law subjects;

b) elective subjects to the value of 40 credit points; to be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

c) a major study (comprising 162 credit points) as prescribed for the Bachelor of Engineering. All students should discuss their Engineering program with the relevant Course Coordinator.

Bachelor of Information & Communication Technology - Bachelor of Laws

Course requirements
To qualify for the award of the degrees of Bachelor of Information and Communication Technology - Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

a) all compulsory Law subjects;

b) elective subjects to the value of 40 credit points; to be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

c) all requirements as prescribed for the Bachelor of Information and Communication Technology.
Course Structures

Bachelor of Mathematics - Bachelor of Laws

Course requirements
To qualify for the award of the degrees of Bachelor of Mathematics - Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b), (c) and (d) as follows:

a) all compulsory Law subjects;

b) elective subjects to the value of 48 credit points; to be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

c) subjects selected from either or both of the Mathematics Schedule or the General Schedule having a value of at least 108 credit points, including a major study in Mathematics; and

d) satisfy the requirements prescribed for the Bachelor of Mathematics degree.

Bachelor of Medical Science - Bachelor of Laws

Course requirements
To qualify for the award of the degrees of Bachelor of Medical Science - Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

(a) all compulsory Law subjects;

(b) elective subjects to the value of 56 credit points; to be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

c) general elective subjects having a value of at least 90 credit points forming a Medical Science major study which must:
   i) be selected from the Health and Behavioural Sciences Schedule of Subjects;
   ii) include no more than 48 credit points for 100-level subjects; and
   iii) include at least 24 credit points for 300-level subjects.

Bachelor of Science - Bachelor of Laws

Course requirements
To qualify for the award of the degrees of Bachelor of Science - Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

a) all compulsory Law subjects;

b) elective subjects to the value of 56 credit points; to be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

c) general elective subjects having a value of at least 90 credit points including a major study which shall:
   i) be selected from either the Science Schedule, or the Health and Behavioural Sciences Schedule; and
   ii) include no more than 48 credit points for 100-level subjects
or a prescribed Environmental Science program of study having a value of 92 credit points.

Compulsory Law Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLB100</td>
<td>Law in Society</td>
<td>6</td>
</tr>
<tr>
<td>LLB222</td>
<td>Perspectives on Law</td>
<td>6</td>
</tr>
<tr>
<td>LLB210</td>
<td>Law of Contracts</td>
<td>8</td>
</tr>
<tr>
<td>LLB300</td>
<td>Remedies and Procedure</td>
<td>8</td>
</tr>
<tr>
<td>LLB301</td>
<td>Evidence</td>
<td>8</td>
</tr>
<tr>
<td>LLB302</td>
<td>Law of Business Organisations</td>
<td>8</td>
</tr>
<tr>
<td>LLB304</td>
<td>Criminal Law and the Process of Justice</td>
<td>8</td>
</tr>
<tr>
<td>LLB305</td>
<td>Law of Property A</td>
<td>8</td>
</tr>
<tr>
<td>LLB306</td>
<td>Law of Property B</td>
<td>8</td>
</tr>
<tr>
<td>LLB307</td>
<td>Law of Torts</td>
<td>8</td>
</tr>
<tr>
<td>LLB308</td>
<td>Public Law A</td>
<td>8</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>LLB309</td>
<td>Public Law B</td>
<td>8</td>
</tr>
<tr>
<td>LLB311</td>
<td>Lawyers and Australian Society</td>
<td>8</td>
</tr>
<tr>
<td>LLB312</td>
<td>Legal Theory</td>
<td>8</td>
</tr>
<tr>
<td>LLB390</td>
<td>Computing and Statistical Skills</td>
<td>2</td>
</tr>
<tr>
<td>LLB391</td>
<td>Litigation Practice</td>
<td>2</td>
</tr>
<tr>
<td>LLB392</td>
<td>Communication Skills</td>
<td>2</td>
</tr>
<tr>
<td>LLB393</td>
<td>Drafting and Conveyancing Practice</td>
<td>2</td>
</tr>
<tr>
<td>LLB394</td>
<td>Advocacy and Negotiation</td>
<td>2</td>
</tr>
<tr>
<td>LLB395</td>
<td>Legal Research and Writing</td>
<td>2</td>
</tr>
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</table>

**Elective Law Subjects**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLB303</td>
<td>Family, Children and Welfare</td>
<td>8</td>
</tr>
<tr>
<td>LLB313</td>
<td>Legal Research Project A</td>
<td>8</td>
</tr>
<tr>
<td>LLB314</td>
<td>Legal Research Project B</td>
<td>16</td>
</tr>
<tr>
<td>LLB316</td>
<td>Occupational Health and Safety Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB317</td>
<td>E-Commerce Law*</td>
<td>8</td>
</tr>
<tr>
<td>LLB320</td>
<td>Commercial and Consumer Contracts</td>
<td>8</td>
</tr>
<tr>
<td>LLB321</td>
<td>Finance and Security</td>
<td>8</td>
</tr>
<tr>
<td>LLB330</td>
<td>Law of Employment</td>
<td>8</td>
</tr>
<tr>
<td>LLB331</td>
<td>Intellectual Property Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB332</td>
<td>Labour Relations Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB334</td>
<td>Environmental Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB335</td>
<td>Anti-Discrimination Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB337</td>
<td>Comparative Studies in Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB339</td>
<td>Advanced Criminal Law and Procedure*</td>
<td>8</td>
</tr>
<tr>
<td>LLB341</td>
<td>Revenue Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB343</td>
<td>International Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB344</td>
<td>Indigenous Peoples and Legal Systems</td>
<td>8</td>
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<tr>
<td>LLB348</td>
<td>Media Law</td>
<td>8</td>
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<tr>
<td>LLB350</td>
<td>Special Study in Law A</td>
<td>8</td>
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<tr>
<td>LLB351</td>
<td>Special Study in Law B</td>
<td>8</td>
</tr>
<tr>
<td>LLB360</td>
<td>Foreign Investment Law in the People’s Republic of China*</td>
<td>8</td>
</tr>
<tr>
<td>LLB3911</td>
<td>Introduction to Natural Resources Law</td>
<td>8</td>
</tr>
<tr>
<td>LLB3918</td>
<td>Law of Land and Nature Conservation*</td>
<td>8</td>
</tr>
<tr>
<td>LLB3919</td>
<td>Water Law*</td>
<td>8</td>
</tr>
<tr>
<td>LLB3920</td>
<td>Local Government Law and the Neighbourhood Environment*</td>
<td>8</td>
</tr>
<tr>
<td>LLB3922</td>
<td>International Maritime Environmental Law*</td>
<td>8</td>
</tr>
<tr>
<td>LLB3923</td>
<td>The Law of the Sea</td>
<td>8</td>
</tr>
<tr>
<td>LLB3924</td>
<td>International Environmental Law*</td>
<td>8</td>
</tr>
<tr>
<td>LLB3927</td>
<td>Natural Resources Law Review</td>
<td>8</td>
</tr>
<tr>
<td>LLB3928</td>
<td>Special Studies in Natural Resources Law I</td>
<td>8</td>
</tr>
<tr>
<td>LLB3929</td>
<td>Special Studies in Natural Resources Law II</td>
<td>8</td>
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<tr>
<td>SOC222</td>
<td>Sociology of Crime and Justice</td>
<td>8</td>
</tr>
<tr>
<td>SOC244</td>
<td>Punishment: Purpose, Practice, Policy</td>
<td>8</td>
</tr>
<tr>
<td>SOC349</td>
<td>Social Regulation: Policies &amp; Issues</td>
<td>8</td>
</tr>
</tbody>
</table>

*Not available in 2002

Note: To be eligible for the award of Honours, candidates MUST complete either LLB313 or LLB314 from the elective schedule.

Note: Elective subjects will be offered only if a sufficient number of students enrol during the Official Enrolment Period. The elective subject will be cancelled if less than 10 students are enrolled.
Course Structures

Legal Studies

Note: Legal Studies subjects will not normally count towards the LLB. Students enrolled in the LLB or a double degree course leading to the LLB should consult the Law Schedule.

Major Study in BA

Students wishing to major in Legal Studies in the BA degree must complete 54 credit points of Legal Studies subjects at Pass Grade or better with at least 24 credit points of the major study at the 300-level. LAW100 Law in Society is a compulsory subject in the BA major study.

Important: There may be some restrictions on class sizes in Legal Studies subjects. Accordingly, students are strongly advised to finalise their enrolment in Legal Studies subjects for BOTH Autumn and Spring sessions as early as possible, preferably before the commencement of the academic year. In certain instances, adding Legal Studies subjects after the enrolment or re-enrolment dates may not be possible.

Legal Studies Subjects

100-Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW100</td>
<td>Law in Society</td>
<td>6</td>
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</table>

200-Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW210</td>
<td>Contract Law</td>
<td>6</td>
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</table>

300-Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW302</td>
<td>Law of Business Organisations</td>
<td>6</td>
</tr>
<tr>
<td>LAW303</td>
<td>Children, Families and the Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW304</td>
<td>Criminal Law and the Process of Justice</td>
<td>6</td>
</tr>
<tr>
<td>LAW308</td>
<td>Administrative Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW315</td>
<td>Taxation Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW316</td>
<td>Occupational Health and Safety Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW317</td>
<td>E-Commerce Law*</td>
<td>6</td>
</tr>
<tr>
<td>LAW330</td>
<td>Law of Employment</td>
<td>6</td>
</tr>
<tr>
<td>LAW331</td>
<td>Intellectual Property Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW332</td>
<td>Labour Relations Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW334</td>
<td>Environmental Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW335</td>
<td>Anti-Discrimination Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW343</td>
<td>International Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW344</td>
<td>Indigenous Peoples and Legal Systems</td>
<td>6</td>
</tr>
<tr>
<td>LAW348</td>
<td>Media Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW352</td>
<td>Advanced Taxation Law*</td>
<td>6</td>
</tr>
<tr>
<td>LAW360</td>
<td>Foreign Investment Law in the People's Republic of China*</td>
<td>6</td>
</tr>
<tr>
<td>LAW366</td>
<td>Selected Issues in Legal Studies*</td>
<td>6</td>
</tr>
<tr>
<td>LAW370</td>
<td>An Introduction to Civil Law in the People's Republic of China*</td>
<td>6</td>
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</tbody>
</table>

400-Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW453</td>
<td>Studies in Taxation*</td>
<td>6</td>
</tr>
<tr>
<td>LAW463</td>
<td>Jurisprudence*</td>
<td>6</td>
</tr>
<tr>
<td>LAW464</td>
<td>Studies in Business Law*</td>
<td>6</td>
</tr>
<tr>
<td>LAW465</td>
<td>Studies in Administrative Law*</td>
<td>6</td>
</tr>
<tr>
<td>LAW466</td>
<td>Studies in Industrial Law*</td>
<td>6</td>
</tr>
<tr>
<td>LAW467</td>
<td>Studies in Trade Practices and Consumer Law*</td>
<td>6</td>
</tr>
<tr>
<td>LAW487</td>
<td>Special Topic in Law-A</td>
<td>6</td>
</tr>
<tr>
<td>LAW488</td>
<td>Special Topic in Law-B</td>
<td>6</td>
</tr>
<tr>
<td>LAW493</td>
<td>Research Essay*</td>
<td>12</td>
</tr>
</tbody>
</table>

*Not available in 2002.
<table>
<thead>
<tr>
<th>LLB100</th>
<th>Law in Society</th>
<th>6cp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Wollongong</td>
<td>On Campus</td>
</tr>
<tr>
<td>Contact Hours:</td>
<td>3 x 2S.</td>
<td></td>
</tr>
<tr>
<td>Pre-requisites:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Co-requisites:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Restrictions:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Exclusions:</td>
<td>Not to count with LAW100</td>
<td></td>
</tr>
<tr>
<td>Assessment:</td>
<td>Court research plan and report; research essay; take-home problem; final examination.</td>
<td></td>
</tr>
<tr>
<td>Subject Description:</td>
<td>An overall perspective on the Australian legal system and its role in the Australian social order; an introduction to the sources and authority of legal rules, the nature of legal institutions and practices, legal materials, reasoning and terminology. Aspects of substantive law will be used to illustrate general principles.</td>
<td></td>
</tr>
<tr>
<td>Subject Objectives:</td>
<td>To recognise and describe (among others) the interdependence between law and society in Australia; to identify and describe the relations between law and significant features of Australian society; to explain the processes of law-making by Australian parliaments; to describe and apply the different approaches to statutory interpretation; to describe and apply the processes of analysis and justification used by judges.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LLB210</th>
<th>Law of Contracts</th>
<th>8cp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>On Campus</td>
</tr>
<tr>
<td>Contact Hours:</td>
<td>2 x 2S.</td>
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<tr>
<td>Pre-requisites:</td>
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<td>Co-requisites:</td>
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<td></td>
</tr>
<tr>
<td>Restrictions:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Exclusions:</td>
<td>Not to count with LAW210</td>
<td></td>
</tr>
<tr>
<td>Assessment:</td>
<td>Class participation; 2 assignments; final examination.</td>
<td></td>
</tr>
<tr>
<td>Subject Description:</td>
<td>The study of the modern law of contract as it has developed in Australia. Particular areas of focus include formation of contract; vitiating factors; privity; identification and construction of terms; breach of contract; and remedies. Emphasis is placed upon students developing skills in the application of legal principles to factual situations through the analysis of cases and hypotheticals.</td>
<td></td>
</tr>
<tr>
<td>Subject Objectives:</td>
<td>At the end of the course a student will be expected to: 1. have acquired a good knowledge of the principles pursuant to which a person may be contractually bound and the consequences of being so bound; 2. be able to identify the sources of contract law, and the relevant legal principles to apply to a given problem; 3. be able to apply those legal principles to the analysis of complex hypothetical problems; 4. be able to critically evaluate those principles and any need for reform and be able to discuss the shape any desirable reforms should take.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LLB222</th>
<th>Perspectives on Law</th>
<th>6cp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>On Campus</td>
</tr>
<tr>
<td>Contact Hours:</td>
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<tr>
<td>Pre-requisites:</td>
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<td>Co-requisites:</td>
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<td></td>
</tr>
<tr>
<td>Restrictions:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Exclusions:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Assessment:</td>
<td>Assignments and a reflective journal</td>
<td></td>
</tr>
<tr>
<td>Subject Description:</td>
<td>As its title suggests, this is a subject about law rather than a subject on the law itself. A basic theme of the subject is the underlying tension between law as an abstract medium of scholarship and the way it operates in real life. A wide variety of theoretical tools will be presented to help students make sense of the differences between law in books and law in action.</td>
<td></td>
</tr>
<tr>
<td>Subject Objectives:</td>
<td>At the end of the course a student will be expected to be able to: understand the prevailing ideological foundations of law in Australian society; describe aspects of the relationship between customary law and common law; identify and explain the different modes of inquiry of law and disciplines examining law; appreciate issues in the application of law, both civil and criminal, including the exercise of police discretion and the transformation of disputes; appreciate the impact of laws on aspects of everyday life; analyse the emergence and reform of laws; explain aspects of the legal uses of linguistic devices including narrative.</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>LLB300</th>
<th>Remedies and Procedure</th>
<th>8cp</th>
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<tbody>
<tr>
<td>Autumn</td>
<td>Wollongong</td>
<td>On Campus</td>
</tr>
<tr>
<td>Contact Hours:</td>
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<td>Pre-requisites:</td>
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<tr>
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<td>Restrictions:</td>
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</tr>
<tr>
<td>Exclusions:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Assessment:</td>
<td>Class participation, assignment and examination</td>
<td></td>
</tr>
<tr>
<td>Subject Description:</td>
<td>Explores civil remedies available in Australia including self-help remedies and curial remedies available in law and in equity, and examines principles of civil procedure in the courts of NSW.</td>
<td></td>
</tr>
<tr>
<td>Subject Objectives:</td>
<td>1. be familiar with the origin of each of the major curial remedies, and will understand the principles governing the availability of those remedies; 2. be familiar with the major non curial remedies which may be available to an injured or wronged party; 3. be able to analyse different factual situations to identify curial and non curial remedies which may be available to an injured or wronged party and be able to prepare and present arguments to support or oppose the grant of those remedies in a given case; 4. understand and be able to utilise the procedures available in civil proceedings in a superior court including being able to prepare and present arguments to support or oppose the application of those procedures in a given case; and 5. be able to evaluate the need for reform in each of the main content areas covered, and be able to discuss critically the shape any desirable reforms should take.</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>LLB301</th>
<th>Evidence</th>
<th>8cp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>On Campus</td>
</tr>
<tr>
<td>Contact Hours:</td>
<td>1L, 2S.</td>
<td></td>
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<tr>
<td>Pre-requisites:</td>
<td>LLB304</td>
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<td>Co-requisites:</td>
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<td>Restrictions:</td>
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</tr>
<tr>
<td>Exclusions:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Assessment:</td>
<td>Research essay, class participation and final examination</td>
<td></td>
</tr>
<tr>
<td>Subject Description:</td>
<td>The legal rules relating to the admissibility of evidence to prove facts in civil and criminal trials; comparison and analysis of the adversarial system of justice and the inquisitorial system.</td>
<td></td>
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</tbody>
</table>
| Subject Objectives: | At the end of the course a student will be expected to be able to:- Identify and apply the basic concepts of the rules of evidence; Discuss whether the rules are necessary;
Subject Descriptions

Evaluate whether the rules should be flexible and discretionary or rigid and predictable; Assess the effectiveness of the rules and decide if they are applied fairly; Relax the common law to the Evidence Act 1995 (Cth) and Evidence Act 1995 (NSW) where appropriate.

LLB302 Law of Business Organisations 8cp

Autumn Wollongong On Campus

Contact Hours: 1L, 2S.
Pre-requisites: LLB306
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW302
Assessment: Groupwork constitution and related documents; class participation; and take-home examination

Subject Description: The subject comprises an introduction to: the main forms of organisation adopted by voluntary (non-profit) associations and commercial enterprises and their legal incidents; the law of partnerships and companies; public policy in the above areas.

Subject Objectives: It is not intended that a student will conclude this course having knowledge of the myriad technical requirements for each or all of the forms of association referred to during the course of the session. It is intended that a student will: (a) examine and discuss the purposes and policy considerations underlying the choice that must necessarily be made between alternative forms of association; (b) further develop legal writing skills, and in particular, the skill of legal drafting; (c) be able to isolate, examine and discuss the policies underlying, and the purposes for regulation in specific areas of partnership law and corporations law; (d) develop an appreciation of corporate regulation as an evolving mechanism, not to be isolated from its economic, political and social context; and (e) develop a familiarity and expertise in the usage of the Corporations Act 1989.

LLB303 Family, Children and Welfare 8cp

Autumn Wollongong On Campus

Contact Hours: 3S.
Pre-requisites: LLB100
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW303
Assessment: Essay; class participation; final examination.

Subject Description: To develop in students a satisfactory level of understanding of all aspects of the Family Law Act and related legislation.

Subject Objectives: At the end of this course a student will be expected to: identify and apply the basic concepts of family law; assess whether the legislation is necessary and suggest improvements to the law; evaluate the effects family law has on children; have obtained basic skills in the practice of family law.

LLB304 Criminal Law and the Process of Justice 8cp

Autumn Wollongong On Campus

Contact Hours: 1L, 2S.
Pre-requisites: LLB100
Co-requisites: none
Restrictions: none
Exclusions: Pre-requisites apply only to candidates in double degree courses; not to count with LAW304
Assessment: Essay, class participation and examination

Subject Description: This subject is an introduction to: general principles of criminal liability; major categories of offences and selected defences; and aspects of criminal procedure.

Subject Objectives: A student who has completed this subject successfully will: i. understand the elements of a selection of criminal offences, including public order offences, drugs offences, homicide, and theft, and be able to apply them to hypothetical fact situations; ii. appreciate how different criminal laws have changed over time; iii. be able to identify the particular attributes of criminal law as a form of social regulation and compare it with other forms of regulation; iv. be able to examine the extent to which the versions of criminal law practised by you, as citizens, as well as by law enforcement agencies, juries and trial judges conform with that propagated by the appeal courts; v. appreciate the significance of statistical information on offences and how they are processed; vi. develop ideas relating to reform of the criminal law in an attempt to adapt it to the contours of specific problems.

LLB305 Law of Property A 8cp

Autumn Wollongong On Campus

Contact Hours: 3S.
Pre-requisites: LLB210
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class participation, assignment and final examination

Subject Description: Consideration of the notion of property and interests in property; the distinctions between real, personal and intangible property, legal and equitable interests in property and the notion of title; the notion of ownership, legal protection of property interests. The relationship of landlord and tenant; easements and covenants.

Subject Objectives: At the end of the course a student should be able to: demonstrate knowledge of the legal doctrine applicable to the ownership of interests in real and personal property; apply these doctrinal elements to solve problems concerning the acquisition of property rights; critically evaluate the legal doctrine applicable to Australian property law and identify potential areas for legal reform; discuss the role of property in Australian society and critically evaluate that role; demonstrate awareness of the responsibilities of the lawyer involved with matters concerning property law.

LLB306 Law of Property B 8cp

Spring Wollongong On Campus

Contact Hours: 3S.
Pre-requisites: LLB305
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class participation; assignment and final examination.

Subject Description: The modern law of real property, including the Torrens system of registration of title to land; trusts and the powers and obligations of trustees; introduction to the idea of mortgages and other security interests in property; succession to title by will and on intestacy; introduction to legal drafting in a property law context.

Subject Objectives: At the conclusion of this subject, students should be able to: demonstrate knowledge of the legal doctrine applicable to the ownership of interests in real and personal property; apply these doctrinal elements to solve problems concerning conflicting property claims and the acquisition of
property rights; critically evaluate the legal doctrine applicable to Australian property law and identify potential areas for legal reform; discuss the role of property in Australian society and critically evaluate that role; demonstrate awareness of the responsibilities of the lawyer involved with matters concerning property law; and draft basic documents relevant to property transactions.

**Subject Objectives:**
1. **Describe the powers and functions of the representative government, judicial review and federalism;**
2. **Describe the relationships between the three arms of government in Australia - the legislature, the executive and the judiciary;**
3. **Describe the procedures available for obtaining reasons for decisions and access to information about government, and seek critical judgements about i) the ethics and conduct of the legal profession, ii) the practical operation of the law in at least two different legal environments and iii) the suitability of different procedures for performing these functions;**
4. **Describe the significance of a case, or series of cases, in a concise manner;**
5. **Explain the roles and functions of the law of torts;**
6. **Differentiate between different types of torts, particularly in terms of the relevant fault component;**
7. **Demonstrate an understanding of the different components of a negligence action;**
8. **Discuss and evaluate the contemporary relevance of the torts of trespass and nuisance;**
9. **Assess the adequacy of existing legal principles as a means of compensating for a range of economic and non-economic losses;**
10. **Evaluate arguments about the effectiveness of tort law;**
11. **Analyse a hypothetical fact situation, and identify legal issues involving the law of torts;**
12. **Formulate and present oral and written arguments, drawing on relevant precedent and policy consideration.**

**LLB307 Law of Torts 8cp**
- **Contact Hours:** 2L, 2S.
- **Pre-requisites:** LLB210
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** Assignments; class participation; examination

**Subject Description:** Introduction to the law of civil wrongs, its aims, operation and relationship to other societal mechanisms of compensation. Topics include negligence, intentional torts; nuisance. The focus will be the development of the common law and the operation of public policy granting relief in a variety of tort actions. Students will work individually and in groups.

**Assessment:**
- **Minor problem assignment 15%; major problem assignment 40%; takehome exam 45%.

**Subject Objectives:**
1. **Describe the powers and functions of the representative government, judicial review and federalism;**
2. **Describe the relationships between the three arms of government in Australia - the legislature, the executive and the judiciary;**
3. **Describe the procedures available for obtaining reasons for decisions and access to information about government, and seek critical judgements about i) the ethics and conduct of the legal profession, ii) the practical operation of the law in at least two different legal environments and iii) the suitability of different procedures for performing these functions;**
4. **Describe the significance of a case, or series of cases, in a concise manner;**
5. **Explain the roles and functions of the law of torts;**
6. **Differentiate between different types of torts, particularly in terms of the relevant fault component;**
7. **Demonstrate an understanding of the different components of a negligence action;**
8. **Discuss and evaluate the contemporary relevance of the torts of trespass and nuisance;**
9. **Assess the adequacy of existing legal principles as a means of compensating for a range of economic and non-economic losses;**
10. **Evaluate arguments about the effectiveness of tort law;**
11. **Analyse a hypothetical fact situation, and identify legal issues involving the law of torts;**
12. **Formulate and present oral and written arguments, drawing on relevant precedent and policy consideration.**

**LLB308 Public Law A 8cp**
- **Contact Hours:** 3S.
- **Pre-requisites:** LLB100
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** Pre-requisite applies only to candidates in double degree courses; not to count with LAW308
- **Assessment:** Minor problem assignment 15%; major problem assignment 40%; takehome exam 45%.

**Subject Description:** The notion of the state and state power; limitations on state power; the constitutional structure of the Australian nation-state; the notion of division and separation of powers; mechanisms of accountability and control of government officials, including access to government information, the Ombudsman, review tribunals and judicial review; the statutory framework of the new Administrative Law.

**Subject Objectives:** At the conclusion of the subject students should be able to: describe the powers and functions of the three arms of government in Australia - the legislature, the executive and the judiciary; describe the relationships between the three arms of government with reference to the concepts of responsible government, the separation of powers, representative government, judicial review and federalism; describe the procedures available for obtaining reasons for decisions and access to information about government, and seeking review of administrative decisions internally, by Ombudsmen, by tribunals and the courts; assess the applicability of these procedures in given fact situations and evaluate the suitability of different procedures for performing these functions; describe and evaluate existing legal constraints on the operations of executive government at all levels in Australia.

**LLB309 Public Law B 8cp**
- **Spring**
- **Contact Hours:** 3S.
- **Pre-requisites:** LLB308
- **Co-requisites:** none
- **Restrictions:** none
- **Exclusions:** none
- **Assessment:** Problem assignment 15%; research assignment 40%; takehome exam 45%.

**Subject Description:** Division of power between Commonwealth and State legislatures; the structure and powers of State and Commonwealth governments, with special emphasis on the limitation of the power of the Commonwealth parliament, the place of the judiciary and judicial review of legislative and executive power; funding the operations of Commonwealth and State Governments; express and implied constitutional rights; constitutional change.

**Subject Objectives:** The aims of this subject are to enable students to develop an understanding of the concept of federation and its operation in Australia, including: a) the theory of the division of powers between the Commonwealth and the States; b) the federal legal framework and the scope of Commonwealth powers under the Australian Constitution; c) the system of judicial review of legislative action and the political and legal position of the High Court of Australia; d) the practical operation of the federal system; e) the process of constitutional change and contemporary constitutional issues.

**LLB311 Lawyers and Australian Society 8cp**
- **Spring**
- **Contact Hours:** 3S.
- **Pre-requisites:** LLB304
- **Co-requisites:** LLB210
- **Restrictions:** none
- **Exclusions:** Before becoming eligible for a grade in this subject, a candidate must complete the practical component of the subject to the satisfaction of the Faculty.
- **Assessment:** Research essay or project 35%, Problems in Professional Responsibility assignment 25%, class participation and placement program 40%.

**Subject Description:** This subject falls into two parts. 1) the nature of professionalism and ethics; the 'legal profession', its regulation, and its rules of conduct; and how the law in practice relates to access to justice. 2) a practical or clinical element, in which students can observe and participate in the practice and operation of the law, through the Professional Experience Placement Program. Each student must undertake 2 placements each of 20 working days of professional experience, in two different legal environments approved by the Faculty. The Placement Program is undertaken after the Course work in the subject has been completed.

**Subject Objectives:** After completing this subject you should be able to: discuss and explain i) the nature of the legal profession, ii) the nature of the relations between lawyers and their clients, iii) the practical operation of the law in at least two different legal environments; explain, discuss and apply, in simple cases i) the rules of conduct of the legal profession, ii) the law relating to legal practice; make informed, practical and critical judgements about i) the ethics and conduct of the legal
profession, ii) the operation of the Australian legal system and the role of lawyers in that system; i) the influence of lawyers in society; determine how you would act in situations arising in particular professional contexts which create value-choices for professionals.

LLB312  Legal Theory  8cp
Spring  Wollongong  On Campus
Contact Hours: 2S.
Pre-requisites: 48 credit points of LLB subjects including LLB222
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignment; research essay; class participation
Subject Description: This subject addresses a range of fundamental issues in jurisprudence, revolving around the nature of law, the basis for legal authority, the scope and limits of law, and the relationship between law, morality and values such as justice, liberty and autonomy.
Subject Objectives: Students who complete LLB312 Legal Theory will be able to engage critically with the study of law using philosophic analytic and critical reasoning skills. Students who complete LLB312 will develop their capacity to consider the justification, content and significance of law within the wider social and political contexts of legislation, regulation, governance and ethics.

LLB313  Legal Research Project A  8cp
Spring  Wollongong  On Campus
Autumn  Wollongong  On Campus
Contact Hours: 2S.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Performance is assessed by progress on a number of tasks, with the greatest weight given to the final research paper. The research paper will be assessed by two persons appointed by the Dean on the recommendation of the subject co-ordinator. Each examiner must provide a written report which will be made available to the students and the supervisor.
Subject Description: A supervised research paper of no more than 25,000 words on a subject selected by the student and approved by the Dean by week 6 of the first session of enrolment in this subject.
Subject Objectives: The aim of the subject is to provide practical experience in research on a legal topic. At the end of the subject a student should be able to conduct independent research in an area of law, and report in writing the results of that research.

LLB316  Occupational Health and Safety Law  8cp
Autumn  Wollongong  On Campus
Contact Hours: Intensive Subject.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class participation, research essay and examination
Subject Description: The unit considers the following themes: the early English Factory Acts; factors motivating the use of law to regulate the workplace; prescriptive laws regulating the workplace; factors leading to the reform of the prescriptive approach; The Roben's Report a new era in workplace safety; the influence of Robens in Australia; self-regulation in the post-Roben's era; occupational health and safety laws in New South Wales and at national level; review of reports into selected major accidents, and worker's compensation schemes. Within the context of the above broad themes particular attention will be given to the following specific issues: risk management and the law; how to determine a safe system of work according to law; how does law identify a hazard; what are the legal obligations to undertake a risk assessment? in law what determines reasonable practicable steps. Contemporary debate relating to the development of legal and policy measures to promote a safe workplace will be reviewed.
Subject Objectives: At the end of the subject a student should be able to:- appreciate the historical development of the Factory Acts to promote a safer workplace; understand limitation of the legislative approach underpinning the prescriptive approach of the Factory Act movement; recognise the demand for reform leading to the Roben's Report 1972; evaluate the main principles of self-regulation as proposed in the Roben's Report; trace the impact of the Roben's Report on Australian jurisdictions; demonstrate an understanding of the key legal obligations imposed under occupational health and safety laws; identify the State and national framework for promoting a safe workplace; summarise the main legal obligations for a safe workplace under New South Wales law; interpret the major cases which have shaped the case-law, and be aware of the workers compensation schemes. Particular attention will be given to incorporating the statutory obligation under law to the practical applications at the workplace.

LLB314  Legal Research Project B  16cp
Spring  Wollongong  On Campus
Autumn  Wollongong  On Campus
Annual  Wollongong  On Campus
Contact Hours: 2S.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Performance is assessed by progress on a number of tasks, with the greatest weight given to the final research paper. The research paper will be assessed by two persons appointed by the Dean on the recommendation of the subject co-ordinator. Each examiner must provide a written report which will be made available to the students and the supervisor.
Subject Description: A supervised research paper of no more than 25,000 words on a subject selected by the student and approved by the Dean by week 6 of the first session of enrolment in this subject.
Subject Objectives: The aim of the subject is to provide practical experience in research on a legal topic. At the end of the subject a student should be able to conduct independent research in an area of law, and report in writing the results of that research.

LLB320  Commercial and Consumer Contracts 8cp
Autumn  Wollongong  On Campus
Contact Hours: 3S.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class participation; assignment and examination

Subject Description: The special rules relating to common commercial contracts, such as contracts of agency, contracts for the sale of goods, insurance contracts, and contracts of carriage; statutory restrictions on contracts.

Subject Objectives: At the end of the course a student will be expected to be able to (among others): explain and describe commercial and consumer transactions as they occur in the real world of business; evaluate the basic concepts in the law relating to commercial and consumer transactions; recognise that commercial law is more than just a body of legal rules and that the real test of commercial law is to be found in what actually happens in commercial practice; explain the relevant commercial and legal principles as they relate to real situations through an understanding and application of relevant commercial transactions.

LLB321 Finance and Security 8cp
Spring Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: 48 credit points of LLB subjects, including LLB306 and LLB302
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class Participation, assignment, examination.

Subject Description: This subject is designed to develop in students a sound understanding of the law governing financial institutions in Australia, and the manner in which these institutions are regulated. The relationship between financial institutions and their customers will be examined, along with the impact of recent technological developments on this relationship and on the business of banking. The law dealing with cheques and other negotiable instruments will be discussed in detail. The issue of security for transactions with financial institutions will be analysed, along with the position of banks as creditors when a customer becomes bankrupt.

Subject Objectives: At the end of the course a student will be able to: discuss and evaluate the importance of financial institutions; and the manner in which these institutions are regulated; identify and analyse the legal issues arising in the dealings between financial institutions and their customers; identify and explain the legal nature of cheques and negotiable instruments and evaluate the legal issues arising in this context; analyse the legal issues commonly arising in the law of security; analyse and apply the law relating to bankruptcy as it impacts on creditors and debtors; relate and apply legal principles in respect of financial transactions to fact situations; discuss and evaluate relevant policy issues; appreciate the reasons for and nature of change in the law relating to financial and banking transactions.

LLB330 Law of Employment 8cp
Autumn Wollongong On Campus
Contact Hours: 1L, 2S.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW330
Assessment: Class participation, assignment, examination.

Subject Description: The rights and duties of individual employers and employees under common law and selected legislation, including: formation, content and termination of the contract of employment; implied duties of employers and employees; remedies at common law; unfair dismissal legislation; anti-discrimination law; unfair work contracts; occupational health and safety.

Subject Objectives: At the end of the subject a student will be expected to be able to: explain the general legal principles governing individual relations between employers and employees under both common law and selected statutory modifications; evaluate the law of employment in terms of its context, interests, assumptions and limitations; apply the principles of the law of employment to factual problems; analyse current issues in the law of employment and assess their significance.

LLB331 Intellectual Property Law 8cp
Autumn Wollongong On Campus
Contact Hours: 1L, 2S.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW331
Assessment: Class participation, Tutorial Presentation, Research Essay, Take-home Examination

Subject Description: An introduction to intellectual property law exploring the legislative regimes of copyright, designs, patents and trademarks, the protection of confidential information and business reputation.

Subject Objectives: By the end of the subject a student should be able to: 1. describe the nature and scope of intellectual property law in Australia including international obligations and proposed reforms; 2. identify the requirements for protection of intellectual property rights under statute and common law; 3. outline and evaluate the policies underlying intellectual property protection; 4. develop strategies to problem solve and resolve legal disputes involving intellectual property rights; 5. identify the application of intellectual property rights in commercial planning and management.

LLB332 Labour Relations Law 8cp
Spring Wollongong On Campus
Contact Hours: 2L, 2S.
Pre-requisites: 48 credit points of LLB subjects including LLB330
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW332
Assessment: Essay, class participation, take-home examination.

Subject Description: The legal regulation of collective relations between employers and employees under the Workplace Relations Act 1996 (Cth). Topics include: constitutional requirements; parties to an industrial dispute; powers of industrial tribunals (including natural justice); processes of award making and variation; collective bargaining and certified agreements; Australian Workplace Agreements; legal regulation of trade unions; law of industrial action.

Subject Objectives: By the successful completion of this subject, students will be able to: explain the major current principles governing the legal regulation of collective relations between employers and employees; evaluate the structure, functions, interests, operation and limitations of legal aspects of the industrial relations system and processes; demonstrate familiarity with the main provisions of the Workplace Relations Act 1996 (Cth) as amended, and other relevant major legislation; analyse and interpret industrial decisions, awards
Subject Descriptions

and agreements from a legal perspective; analyse current issues in labour relations law and assess their significance.

LLB334 Environmental Law 8cp
Autumn Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW334 or LLB3911
Assessment: Assignments; research essay; class participation; examination

Subject Description: Legal and policy issues of environmental protection, resource utility and management.

Subject Objectives: After completing this subject, a student will be expected to have, among other: a critical appreciation of the general anthropocentric and fragmented nature of environmental law; an understanding of basic principles of international environmental law and their implications for environmental law in Australia; an understanding of the division of environmental responsibilities between the various levels of government in Australia, together with an appreciation of opportunities and constraints for closer integration of environmental decision making within the Federal system; a critical appreciation of current directions in Commonwealth environmental law.

LLB335 Anti-Discrimination Law 8cp
Spring Wollongong On Campus
Contact Hours: 1L, 2S.
Pre-requisites: LLB100
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW335
Assessment: Essay/research project; session journal; class participation and examination.

Subject Description: An analysis and appraisal of laws prohibiting discrimination in Australia on various grounds, including: sex, marital status, race, disability, age, sexual preference and transgender. Laws prohibiting harassment and vilification will also be examined. The subject includes exploration of the aims and social context of anti-discrimination legislation, as well as related concepts such as equal opportunity, social justice and affirmative action. Examination of processes for complaints, dispute resolution and enforcement, and powers of investigative and adjudicatory bodies.

Subject Objectives: On successful completion of the subject students will be able to:- appreciate the background, aims and limitations of anti-discrimination law in Australia; analyse the grounds of unlawful discrimination under Commonwealth and New South Wales legislation; demonstrate familiarity with the contents of Commonwealth and New South Wales anti-discrimination statutes, as well as key or illustrative interpretations by courts or tribunals; apply the contents of Commonwealth and New South Wales anti-discrimination legislation to factual problems; explain and apply the statutory exceptions to grounds and areas of unlawful discrimination; critically assess the barriers to effective operation of anti-discrimination laws; describe the methods and processes of complaint, dispute resolution and enforcement, including the general principles of assessment of damages, costs, and implementation of judgments.

LLB337 Comparative Studies in Law 8cp
Spring Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research essay and final examination

Subject Description: A comparison of the French civil law with the common law of England and Australia, with the objective of developing an appreciation of different legal systems and approaches.

Subject Objectives: The objectives of this course are to enable you: to understand the basic structure and principles of the Civil Law; to learn something of the basic substantive law of the Civil Law in several key subject areas; to understand better the general structure and functioning of the Common Law by contrasting it to a Civil Law legal system.

LLB341 Revenue Law 8cp
Spring Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class presentation; written advice to clients involving 2 scenarios; class participation and assignment

Subject Description: Revenue Law, or taxation law, is one of the highly technical fields of law bringing together economic, accounting and financial concepts into a legal construct for the determination of how the costs of good government are to be shared among the members of society. Taxation pervades everyone's life in some way, whether in the form of income tax, for instance, or some form of consumption or other tax like the GST. LLB341 is confined to the Income Tax Assessment Act (1936/97), the Fringe Benefits Tax Assessment Act and associated legislation. These fields alone provide more than enough content for a one semester subject, but are essential for those students seeking registration as CPAs or Chartered Accountants after completing their Degree.

Subject Objectives: At the end of the course a student will be expected to be able to:- Describe, explain and evaluate the policies behind the past present and future development of revenue law in Australia. Analyse revenue law critically. Explain and apply the fundamental principles of the law relating to income taxation, and the major provisions of the Commonwealth Income Tax Assessment Act 1936, and 1997. Evaluate critically existing taxation laws and government policy and consider future developments in the function and application of taxation in Australian society. Use taxation literature and source materials. Communicate with others and work in teams.

LLB344 Indigenous Peoples and Legal Systems 8cp
Spring Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: 48 Credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW344
Assessment: Essays, class participation, research paper
Subject Description: This subject is an introduction to the relationship between Indigenous and non-Indigenous laws and legal systems in Australia. It considers the nature and status of Aboriginal and Torres Strait Islander laws, and explores some of the specific legal issues of current relevance to Indigenous peoples in Australia. Topics include the impact of European colonisation, over-representation in the criminal justice system, land rights and native title, recognition of Aboriginal law, and self-determination.

Subject Objectives: Please refer to subject outline for objectives.

LLB348 Media Law 8cp

Spring Wollongong On Campus

Contact Hours: 3S.

Pre-requisites: 48 credit points of LLB subjects

Co-requisites: none

Restrictions: none

Exclusions: Not to count with LAW348

Assessment: Research project; class tests; examination

Subject Description: An introduction to the law affecting information (in the broadest sense of the term) gathering and dissemination, and to the policies and philosophies informing the legal protection of and restrictions on freedom of speech.

Subject Objectives: By the end of the subject a student will be expected to be able to: explain and critically evaluate the arguments for a right of freedom of expression; describe and explain the main areas of Australian law that restrict freedom of expression; critically evaluate the law having regard to the arguments for and critique of the right of freedom of expression; apply the law to hypothetical situations likely to arise in the course of a journalist or editor's professional activities, in a manner that demonstrates both: i) the ability to select the legal principles likely to be relevant in a particular fact situation, and elaborate on how the principle/s might apply in that situation; ii) problem solving skills that give maximum effect to "the public's right to know"; discuss the impact of the internet on media law and policy.

LLB350 Special Study in Law A 8cp

Spring Wollongong On Campus

Autumn Wollongong On Campus

Contact Hours: Information not available.

Pre-requisites: 48 credit points of LLB subjects and permission of Dean or Sub-Dean

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable

Subject Description: A study in depth of a selected area of law.

Subject Objectives: information unavailable

LLB351 Special Study in Law B 8cp

Spring Wollongong On Campus

Autumn Wollongong On Campus

Contact Hours: Information not available.

Pre-requisites: 48 credit points of LLB subjects and permission of Dean or Sub-Dean

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: information unavailable

Subject Description: This subject deals with the rules, practices and skills relevant to the conduct of civil and criminal litigation in the Federal Court and State Courts.

Subject Objectives: At the end of the course a student will be expected to be able to: select appropriate strategies for the resolution of civil disputes; evaluate material relevant to the conduct of a particular area of litigation; find sources of law governing litigation practices in both State and Federal jurisdictions; understand how summary and indictable matters proceed in the criminal justice system; explain pre-trial and interlocutory procedures; understand the procedure involved in conducting civil hearings; draft documents used in civil proceedings; know the legal principles applied in sentencing and bail applications

LLB390 Computing and Statistical Skills 2cp

Autumn Wollongong On Campus

Contact Hours: 2Lab.

Pre-requisites: none

Co-requisites: LLB395

Restrictions: none

Exclusions: none

Assessment: Students are required to demonstrate competence in a number of computing related and statistical exercises.

Subject Description: The course introduces students to a range of information technologies and statistical principles relevant to law, including basic computer applications, information retrieval and storage, basic principles of statistical inference, and the interpretation and display of numerical data.

Subject Objectives: At the end of this subject, students should be able to: save, transport and organise electronic information using a variety of platforms and applications; send an e-mail message with attachments; create a document using Microsoft Word, and copy it to an e-mail message; understand the basic concepts of information storage and retrieval using databases; construct their own database using FileMaker Pro, using appropriate fields and layouts; search for and find legal resources on-line, using AustLII; export data from a FileMaker to a Word file and edit that data to an acceptable format for legal citation; comprehend the fundamental notions of statistical inference and interpretation of numerical data; manipulate numerical data in tables and graphs using Excel.

LLB391 Litigation Practice 2cp

Autumn Wollongong On Campus

Spring Wollongong On Campus

Contact Hours: Refer to Subject Outline

Pre-requisites: none

Co-requisites: LLB304

Restrictions: none

Exclusions: none

Assessment: Assignments

Subject Description: This subject deals with the rules, practices and skills relevant to the conduct of civil and criminal litigation in the Federal Court and State Courts.

Subject Objectives: At the end of the course a student will be expected to be able to: select appropriate strategies for the resolution of civil disputes; evaluate material relevant to the conduct of a particular area of litigation; find sources of law governing litigation practices in both State and Federal jurisdictions; understand how summary and indictable matters proceed in the criminal justice system; explain pre-trial and interlocutory procedures; understand the procedure involved in conducting civil hearings; draft documents used in civil proceedings; know the legal principles applied in sentencing and bail applications

LLB392 Communication Skills 2cp

Autumn Wollongong On Campus

Contact Hours: included in contact hours for LLB100

Pre-requisites: none

Co-requisites: LLB100

Restrictions: none

Exclusions: none
Subject Descriptions

**LLB395 Legal Research and Writing 2cp**

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**Contact Hours:** Included in contact hours for LLB100

**Pre-requisites:** none

**Co-requisites:** LLB100 or LAW810

**Restrictions:** none

**Exclusions:** none

**Assessment:** Exercises, small-group presentation, class participation

**Subject Description:** An introduction to the location and use of primary legal materials, including the use of computers in retrieving legal material; observation of legal practice in courts and elsewhere; analysis of legal documents; development of clear, concise and simple styles of presenting ideas and arguments in writing; citation of legal materials.

**Subject Objectives:** At the conclusion of this subject, students should be able to: understand the nature of both statutory law and case law; undertake research involving primary sources, including: case law, statutes, regulations, and other government publications; undertake research involving secondary sources, including: journals, texts, digests and encyclopaedias, and non-legal materials; provide accurate citations and references; continue to develop skills in reading and interpreting both statutory law and case law after having developed a firm foundation in this subject; continue to develop skills in legal writing and editing after having developed a firm foundation in this subject.

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**LLB393 Drafting and Conveyancing Practice 2cp**

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**Contact Hours:** 2 x 8S.

**Pre-requisites:** none

**Co-requisites:** LLB305

**Restrictions:** none

**Exclusions:** none

**Assessment:** information unavailable

**Subject Description:** The skills of modern legal drafting in plain English, including those skills employed in professional legal practice in planning, writing and reviewing letters, memoranda and other legal documents. An introduction to will drafting. Conveyancing practice including analysis of relevant property law, practice and procedure, the standard contract for sale and consideration of time in performance of the contract.

**Subject Objectives:** information unavailable

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**LLB394 Advocacy and Negotiation 2cp**

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**Contact Hours:** 2S.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** 1. Written brief to counsel 2. Participation in negotiation/mediation exercise 3. Participation in an advocacy exercise 4. Class participation, including participation in simulations and role plays

**Subject Description:** Advanced skills of oral and written presentation of arguments in a range of different forums, and in the skills of negotiation and resolution of disputes. Exercises may include moots, practice court appearances, and the preparation of written submissions.

**Subject Objectives:** After completing this subject students will: understand the purpose, nature and contents of, and be able to prepare, a brief to counsel; develop skills acquired in Legal Writing and Research and Communication Skills; understand the function of a written submission to court and be able to prepare one; be able to present a plea in mitigation, bail application and/or interlocutory application; be able to prepare and present a simple case in court; be able to prepare and take part in a simple negotiation and mediation.
Subject Description: The evolving law of the sea from an historical perspective. The 1982 United Nations Convention on the Law of the Sea (LOSC) and its associated instruments. Maritime zones of jurisdiction and the navigational regime under LOSC. The major factors influencing the development of the law of the sea; the various interests involved in the law of the sea and how LOSC attempts to balance these interests.

Subject Objectives: On successfully completing the subject students will be familiar with the law of the sea regime; be aware of its rules in various sectors and of the institutional processes for their development; and understand the political and management issues in law of the sea now facing the Asia-Pacific region.

LLB3927 Natural Resources Law Review  8cp
Autumn  Wollongong  On Campus
Contact Hours: Refer to faculty.
Pre-requisites: 48 credit points of LLB subjects and approval the subject co-ordinator.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Revision of student research paper for publication Preparation of case/legislation note Editorial work
Subject Description: Writing and editing of academic papers for the Australasian Journal of Natural Resources Law and Policy, a biannual publication by the Faculty of Law and distributed worldwide. Preparation of a case or legislation note for publication in the journal. Student will work in consultation with the Managing Editor and the subject co-ordinator.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. Develop skills in legal writing and editing; in analysis of legal arguments; 2. Broaden students' familiarity with a broad range of topical issues in natural resources law and policy; 3. Facilitate publication of student research papers.

LLB3928 Special Studies in Natural Resources Law I  8cp
Autumn  Wollongong  Flexible
Contact Hours: 1 week intensive.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class participation, assignment and take-home examination
Subject Description: A study in depth of a selected area of Natural Resources Law.
Subject Objectives: A student who completes this course successfully will be able to analyse a selected area of natural resources law, identify and apply relevant principles, and evaluate the effectiveness of the legal rules and/or policies studied.

LLB3929 Special Studies in Natural Resources Law II  8cp
Autumn  Wollongong  Flexible
Contact Hours: 1 week intensive.
Pre-requisites: 48 credit points of LLB subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Subject Descriptions

LEGAL STUDIES SUBJECT DESCRIPTIONS

LAW100  Law in Society  6cp
Autumn  Wollongong  On Campus
Contact Hours: 4 x 1L, 2T.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LLB100 or LAW190
Assessment: Class participation; law in action report; assignment; examination.
Subject Description: A study of the overall framework of law in Australia, the sources, classifications and terminology of law, the judicial process, legal reasoning, materials and methodology. Selected aspects of the substantive law will be used to illustrate the above.
Subject Objectives: By the end of this subject, students should be able to: 1) explain the functions of law in society; describe Australia's constitutional and legal structure; identify key legal concepts, processes and personnel; situate issues within an international context; apply legal concepts to problems and issues; demonstrate sensitivity to different experiences of law; and evaluate the effectiveness of the legal system in carrying out specific tasks.

LAW130  The Business of Law  6cp
Autumn  Shoalhaven  On Campus
Fall  Bega Education Access Centre  On Campus
Spring  Batemans Bay  On Campus
Contact Hours: 1.5T.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Assignments
Subject Description: The subject provides a foundation for the legal knowledge and skills required to participate in the business world.
Subject Objectives: By the end of the subject you should be able to: 1) Demonstrate a knowledge and understanding of: a) the regulatory framework within which small business operates in the community, b) the range of business structures that are available to small business, and c) the legal system as it applies to small business. 2) Identify legal issues arising in a small business context. 3) Identify situations in which specialist advice may be required. 4) Demonstrate an understanding of legal rights and responsibilities within a small business context. 5) Identify and evaluate legal and non-legal ways of resolving disputes. 6) Appreciate the limitations of the law in practical business contexts.

LAW210  Contract Law  6cp
Spring  Wollongong  On Campus
Contact Hours: 2L.
Pre-requisites: LAW100 or LAW190
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LLB210 or LAW290
Assessment: Multiple choice tests; problem question; examination.
Subject Description: To develop in students a satisfactory level of understanding of all aspects of the Family Law Act and related legislation.

LAW302  Law of Business Organisations  6cp
Autumn  Wollongong  On Campus
Contact Hours: 1L, 2T.
Pre-requisites: LAW210 OR LAW290
Co-requisites: NIL
Restrictions: none
Exclusions: Not to count with LLB302
Assessment: Assignments; seminar presentation and final examination.
Subject Description: The subject outlines the key features of the different legal structures which people might adopt for their business and voluntary activities. The legal regulation of two of these, partnership and a company incorporated under the Corporations Law, are then considered in depth. Practical applications of the law, and public policy dimensions, are addressed throughout the subject.
Subject Objectives: By the conclusion of the subject a student should be able to: 1) Identify the principles under which a person may become bound by contractual statements and actions, including: i) the requirements for a valid contract; ii) the terms of a contract and their interpretation; iii) the parties who may rely on or be bound by contractual promises; iv) the circumstances in which contractual obligations may be departed from or become void; v) the application of related obligations arising from promises or conduct; vi) the remedies available for breach or avoidance of contract. 2) Explain the policy, context and limits of these principles, by discussion of leading cases and statutory provisions. 3) Apply these principles to the analysis of complex hypothetical problems.
Subject Objectives: At the end of this course a student will be expected to: identify and apply the basic concepts of family law; assess whether the legislation is necessary and suggest improvements to the law; evaluate the effects family law has on children; have obtained basic skills in the practice of family law.

LAW304 Criminal Law and the Process of Justice 6cp
Autumn Wollongong On Campus
Contact Hours: 1L, 2S.
Pre-requisites: LAW100 or LAW190
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LLB304
Assessment: Essay; class participation; examination.

Subject Description: This subject is an introduction to: the general principles of criminal liability; major categories of offences and selected defences; and aspects of criminal procedure.

Subject Objectives: A student who has completed this subject successfully will: i. understand the elements of a selection of criminal offences, including public order offences, drug offences, homicide, and theft, and be able to apply them to hypothetical fact situations; ii. appreciate how different criminal laws have changed over time, iii. be able to identify the particular attributes of criminal law as a form of social regulation and compare it with other forms of regulation; iv. be able to examine the extent to which the versions of criminal law practised by you, as citizens, as well as by law enforcement agencies, juries and trial judges conform with that propagated by the appeal courts; v. appreciate the significance of statistical information on offences and how they are processed; vi. develop ideas relating to reform of the criminal law in an attempt to adapt it to the contours of specific problems.

LAW308 Administrative Law 6cp
Autumn Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: LAW100 OR LAW190 OR LLB100
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Minor problem assignment 15%; major problem assignment 40%; take-home exam 45%

Subject Description: The notion of the state and state power; limitations on state power; the constitutional structure of the Australian nation-state; the notion of division and separation of powers; mechanisms of accountability and control of government officials, including access to government information, the Ombudsman, review tribunals and judicial review; the statutory framework of the new Administrative Law.

Subject Objectives: At the conclusion of the subject students should be able to: describe the powers and functions of the three arms of government in Australia - the legislature, the executive and the judiciary; describe the relationships between the three arms of government with reference to the concepts of responsible government, the separation of powers, representative government, judicial review and federalism; describe the procedures available for obtaining reasons for decisions and access to information about government, and seeking review of administrative decisions internally, by Ombudsmen, by tribunals and the courts; assess the applicability of these procedures in given fact situations and evaluate the suitability of different procedures for performing these functions; describe and evaluate existing legal constraints on the operations of executive government at all levels in Australia.

LAW315 Taxation Law 6cp
Spring Wollongong On Campus
Contact Hours: 1L, 2S.
Pre-requisites: LAW210 or LAW290
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW251
Assessment: 2 assignments, tutorial participation, and a final examination

Subject Description: The focus of this course is the law relating to income tax and its practical application. The basic concepts of assessable income and allowable deductions are explored together with capital gains tax, tax accounting, taxation of business entities and dividend imputation, fringe benefits tax, an overview of international tax, retirement and termination payments, tax avoidance and tax administration.

Subject Objectives: At the end of the course a student should be able to: 1. demonstrate a sound knowledge of the fundamental principles of the law relating to income tax; 2. demonstrate a good working knowledge of the major provisions of the Commonwealth Income Tax Assessment Act 1936 and the Income Tax Assessment Act 1997; 3. identify and evaluate taxation policy in Australia; 4. apply income tax and fringe benefits tax laws to simulated real life situations for the purpose of giving advice; and 5. develop strategies to solve practical problems involving taxation law principles and resolve disputes with the Australian Tax Office.

LAW316 Occupational Health and Safety Law 6cp
Autumn Wollongong On Campus
Contact Hours: Intensive subject.
Pre-requisites: LAW100 and 12 credit points in LAW subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Class participation, research essay and examination

Subject Description: The unit considers the following themes: the early English Factory Acts; factors motivating the use of law to regulate the workplace; prescriptive laws regulating the workplace; factors leading to the reform of the prescriptive approach; The Roben's Report a new era in workplace safety; the influence of Robens in Australia; self-regulation in the post-Roben's era; occupational health and safety laws in New South Wales and at national level; review of reports into selected major accidents, and worker's compensation schemes. Within the context of the above broad themes particular attention will be given to the following specific issues: risk management and the law; how to determine a safe system of work according to law; how does law identify a hazard; what are the legal obligations to undertake a risk assessment? in law what determines reasonable practicable steps. Contemporary debate relating to the development of legal and policy measures to promote a safe workplace will be reviewed.

Subject Objectives: At the end of the subject a student should be able to: appreciate the historical development of the Factory Acts to promote a safer workplace; understand limitation of the legislative approach underpinning the prescriptive approach of the Factory Act movement; recognise the demand for reform leading to the Roben's Report 1972; evaluate the main principles of self-regulation as proposed in the Roben's Report; trace the impact of the Roben's Report on Australian
jurisdictions; demonstrate an understanding of the key legal obligations imposed under occupational health and safety laws; identify the State and national framework for promoting a safe workplace; summarise the main legal obligations for a safe workplace under New South Wales law; interpret the major cases which have shaped the case-law, and be aware of the workers compensation schemes. Particular attention will be given to incorporating the statutory obligation under law to the practical applications at the workplace.

**LAW330 Law of Employment 6cp**

**Autumn**

Wollongong On Campus

**Contact Hours:** 1L, 2S.

**Pre-requisites:** (LAW100 or LAW190) and (LAW210 or LAW290 or ECON140/ECON240)

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** Not to count with LLB330

**Assessment:** Class participation, assignment, essay/project and final examination

**Subject Description:** The rights and duties of individual employers and employees under common law and selected legislation, including: formation, content and termination of the contract of employment; implied duties of employers and employees; remedies at common law; unfair dismissal legislation; anti-discrimination law; unfair work contracts; occupational health and safety.

**Subject Objectives:** At the end of the subject a student will be expected to be able to: explain the general legal principles governing individual relations between employers and employees under both common law and selected statutory modifications; evaluate the law of employment in terms of its context, interests, assumptions and limitations; apply the principles of the law of employment to factual problems; analyse current issues in the law of employment and assess their significance.

**LAW331 Intellectual Property Law 6cp**

**Autumn**

Wollongong On Campus

**Contact Hours:** 1L, 2S.

**Pre-requisites:** LAW210 or LAW290

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** Not to count with LLB331

**Assessment:** Class participation, tutorial presentation, research essay and take-home examination

**Subject Description:** An introduction to intellectual property law covering the six main protection regimes - copyright, design, breach of confidence, patents, passing off and trade marks - and their economic and social significance.

**Subject Objectives:** By the end of a subject, a student should be able to: 1. describe the nature and scope of intellectual property legislation in Australia including international obligations and proposed reforms; 2. identify the requirements for protection of intellectual property rights under statute and common law; 3. outline and evaluate the policies underlying intellectual property protection; 4. develop strategies to problems solve and resolve legal disputes involving intellectual property rights; 5. identify the application of intellectual property rights in commercial planning and management.

**LAW332 Labour Relations Law 6cp**

**Spring**

Wollongong On Campus

**Contact Hours:** 2L, 2S.

**Pre-requisites:** LAW330 and (either LAW210 or ECON140/240)

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** Not to count with LLB332

**Assessment:** Essay, class participation and a take-home examination

**Subject Description:** The legal regulation of collective relations between employers and employees under the Workplace Relations Act 1996 (Cth). Topics include: constitutional requirements; parties to an industrial dispute; powers of industrial tribunals (including natural justice); processes of award making and variation; collective bargaining and certified agreements; Australian Workplace Agreements; legal regulation of trade unions; law of industrial action.

**Subject Objectives:** By the successful completion of this subject, students will be able to: explain the major current principles governing the legal regulation of collective relations between employers and employees; evaluate the structure, functions, interests, operation and limitations of legal aspects of the industrial relations system and processes; demonstrate familiarity with the main provisions of the Workplace Relations Act 1996 (Cth) as amended, and other relevant major legislation; analyse and interpret industrial decisions, awards and agreements from a legal perspective, analyse current issues in labour relations law and assess their significance.

**LAW333 Environmental Law 6cp**

**Spring**

Wollongong On Campus

**Contact Hours:** 2L, 1S.

**Pre-requisites:** LAW100 or LAW190

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** Not to count with LLB334 or LLB3911

**Assessment:** Take-home exercise and a final examination

**Subject Description:** Examination of both legal and public policy issues in the area of environmental protection, resource utility and management, emphasising the available machinery for preventative and remedial action, e.g. pollution control legislation. Appraisal of local, regional, state and national distribution of power and resources.

**Subject Objectives:** A critical appreciation of the general anthropocentric and fragmented nature of environmental law, and the role of the ideology of private property in shaping environmental policy instruments; an understanding of the division of environmental responsibilities between the various levels of government in Australia, together with an appreciation of opportunities and constraints for closer integration of environmental decision making within the Federal system; an understanding of basic principles of international environmental law and their implications for environmental law in Australia; an understanding of legal principles relating to Australian statutory systems for environmental planning and development control; a sound working knowledge of the Environmental Planning and Assessment Act 1979 (NSW); an ability to interpret environmental planning instruments; an understanding of fundamental legal principles relating to statutory systems of pollution control.
LAW335 Anti-Discrimination Law 6cp
Spring Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: LAW100 or LAW190 or ABST100
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Essay/research Project, Session Journal, class participation and final examination
Subject Description: An analysis and appraisal of laws prohibiting discrimination in Australia on various grounds, including: sex, marital status, race, disability, age, sexual preference and transgender. Laws prohibiting harassment and vilification will also be examined. The subject includes exploration of the aims and social context of anti-discrimination legislation, as well as related concepts such as equal opportunity, social justice and affirmative action. Examination of processes for complaints, dispute resolution and enforcement, and powers of investigative and adjudicatory bodies.
Subject Objectives: On successful completion of the subject students will be able to: appreciate the background, aims and limitations of anti-discrimination law in Australia; analyse the grounds of unlawful discrimination under Commonwealth and New South Wales legislation; demonstrate familiarity with the contents of Commonwealth and New South Wales anti-discrimination statutes, as well as key or illustrative interpretations by courts or tribunals; apply the contents of Commonwealth and New South Wales anti-discrimination legislation to factual problems; explain and apply the statutory exceptions to grounds and areas of unlawful discrimination; critically assess the barriers to effective operation of anti-discrimination laws; describe the methods and processes of complaint, dispute resolution and enforcement, including the general principles of assessment of damages, costs, and implementation of judgments.

LAW344 Indigenous Peoples and Legal Systems 6cp
Spring Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: LAW100 or LAW190 or ABST100
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LLB335
Assessment: Essay, class participation, research paper
Subject Description: This subject introduces the relationship between Indigenous and non-Indigenous laws and legal systems in Australia. It considers the nature and status of Aboriginal and Torres Strait Islander laws, exploring some of the specific legal issues of current relevance to Indigenous peoples in Australia. Topics include the impact of European colonisation, over-representation in the criminal justice system, land rights and native title, recognition of Aboriginal law, and self-determination.
Subject Objectives: Please refer to subject outline for objectives

LAW348 Media Law 6cp
Spring Wollongong On Campus
Contact Hours: 3S.
Pre-requisites: 72 cp including among completed subjects one of: (LAW100 and LAW210) or (COMS100 and COMS101 and LAW100) or other as may from time to time be approved
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LLB335
Assessment: Essay, take-home examination, take-home exercise and a final examination
Subject Description: This subject introduces the relationship between Indigenous and non-Indigenous laws and legal systems in Australia. It considers the nature and status of Aboriginal and Torres Strait Islander laws, exploring some of the specific legal issues of current relevance to Indigenous peoples in Australia. Topics include the impact of European colonisation, over-representation in the criminal justice system, land rights and native title, recognition of Aboriginal law, and self-determination.
Subject Objectives: Please refer to subject outline for objectives

LAW380 Law For Environmental Managers 8cp
Spring Wollongong On Campus
Contact Hours: 2L, 1S.
Pre-requisites: 72 credit points in a discipline other than Law
Co-requisites: none
Restrictions: none
Exclusions: Not to count with LAW334
Assessment: Take-home examination, take-home exercise and a final examination
Subject Description: Examination of both legal and public policy issues in the area of environmental protection, resource utility and management, emphasising the available machinery for preventative and remedial action, e.g. pollution control legislation. Appraisal of local, regional, state and national distribution of power and resources.
Subject Objectives: A critical appreciation of the general anthropocentric and fragmented nature of environmental law, and the role of the ideology of private property in shaping environmental policy instruments; an understanding of the division of environmental responsibilities between the various levels of government in Australia, together with an appreciation of opportunities and constraints for closer integration of environmental decision making within the Federal system; an understanding of basic principles of international environmental law and their implications for environmental law in Australia; an understanding of legal principles relating to Australian statutory systems for environmental planning and development control; a sound working knowledge of the Environmental Planning and Assessment Act 1979 (NSW); an ability to interpret environmental planning instruments; an understanding of fundamental legal principles relating to statutory systems of pollution control.

LAW487 Special Topic In Law - A 6cp
Autumn Wollongong On Campus
Spring Wollongong On Campus
Contact Hours: Information not available.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: The research paper will be assessed by two persons appointed by the Dean on the recommendation of the subject co-ordinator. Each examiner must provide a written
Subject Description: A special topic to be selected from any area of commercial law. The selection would be made by the Dean of the Faculty taking into account the expertise of academic staff, including visiting staff, and the interest of students.

Subject Objectives: The aim of the subject is to provide practical experience in research on a legal topic. At the end of the subject a student should be able to conduct independent research in an area of law, and report in writing the results of that research.

**LAW488 Special Topic in Law - B 6cp**

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Contact Hours: Information not available.

Pre-requisites: none

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: The research paper will be assessed by two persons appointed by the Dean on the recommendation of the subject co-ordinator. Each examiner must provide a written report which will be made available to the students and the supervisor.

Subject Description: A special topic to be selected from any area of commercial law. The selection would be made by the Dean of the Faculty taking into account the expertise of academic staff, including visiting staff, and the interest of students.

Subject Objectives: The aim of the subject is to provide practical experience in research on a legal topic. At the end of the subject a student should be able to conduct independent research in an area of law, and report in writing the results of that research.
Faculty of Science

Member Units

Biological Sciences
Chemistry
Environmental Science
Geosciences

Degrees Offered

Bachelor of Science
Bachelor of Science (Honours) - Advanced

Specialist Degrees

Bachelor of Biotechnology
Bachelor of Biotechnology - Advanced
Bachelor of Environmental Science
Bachelor of Environmental Science - Advanced
Bachelor of Marine Science
Bachelor of Marine Science - Advanced
Bachelor of Medicinal Chemistry
Bachelor of Medicinal Chemistry - Advanced

Students entering one of the four specialist degrees with a UAI of at least 90 are eligible to enrol in the Advanced for these degrees. For details refer to the Bachelor of Science (Honours) - Advanced.

The specialist degrees are structured differently to the Bachelor of Science. They are comprised of prescribed subjects with very few elective subjects. In the four-year degrees there is special coursework in the 4th year which is not available in other degrees as well as an Honours research project. Honours is awarded on completion of the 4th year on academic performance assessed by calculating a weighted average mark for specified 300-level and 400-level subjects. For the three-year Bachelor of Marine Science, a separate Honours research year is available after completion of the three years of coursework.

The Faculty of Science is also involved in the following degree:

Bachelor of Arts (Human Geography, Physical Geography, Geosciences, Geology)

Double Degrees

Bachelor of Science - Bachelor of Arts
Bachelor of Science - Bachelor of Commerce
Bachelor of Science - Bachelor of Engineering
Bachelor of Science - Bachelor of Laws
Bachelor of Creative Arts - Bachelor of Science
Bachelor of Engineering - Bachelor of Science (Faculty of Engineering)
Bachelor of Engineering - Bachelor of Science (Faculty of Informatics)
Bachelor of Computer Science - Bachelor of Science (Faculty of Informatics)

Please note that course and subject availability and requirements are often changed after the publication of the Calendar. For up-to-date information please refer to the on-line Course Structures and Subject Database, available from http://www.uow.edu.au/student/calendar/, or contact the relevant Faculty.
Course Structures

All students enrolled in Faculty of Science degrees should note that:

1. they must satisfy the minimum mathematics requirement for all degrees offered by the Faculty of Science as set out in the Course Rules;
2. a Pass or Pass Conceded grade (not a Pass Restricted grade) is required in a pre-requisite subject to progress to a higher level subject in disciplines within the Faculty of Science unless that pre-requisite is waived by a Head of the Academic Unit for a particular student in special circumstances;
3. a Pass Conceded grade in a 300-level subject forming part of a Science major may not be counted towards the completion of the major.

Students may obtain a copy of the Science Students' Guide from the Faculty Office, 41.258.

Bachelor of Science

Bachelor of Science degrees require 3 years of full-time study or equivalent part-time, and the completion of subjects to the value of 144 credit points. In the Faculty of Science, Bachelor of Science degrees fall into one of three categories, as follows:

1. a) At least one major chosen from disciplines located in the Faculty of Science. A major study consists of at least 90 credit points from the Science Schedule of which at least 60 credit points are from one of the Faculty of Science disciplines:
   - Biological Sciences
   - Chemistry
   - Human Geography
   - Physical Geography
   - Geology
   - Geosciences

   The balance of 54 credit points (to a degree total of 144) may be chosen from either the Science Schedule or General Schedule and may include a second Science major or a selection of complementary or contrasting subjects.

   b) One major from within the Faculty of Science and a co-major from outside the Faculty. Approved co-majors are: Biomedical Sciences, Computer Science, Human Resource Management, Management, Marketing, Mathematics/Applied Statistics, Nutrition, Physics, Psychology. In this category, where an approved major is combined with a Science major, the requirement of at least 90 credit points from the Science Schedule is waived.

2. An approved major from outside of the Faculty combined with a minor from within the Faculty. A minor is defined as comprising at least 12 credit points of 100-level and 32 credit points of 200-level and/or 300-level subjects from one of the Science Academic Units: Biological Sciences, Chemistry or Geosciences. The allowed external majors are Computer Science, Mathematics/Applied Statistics, Physics, Psychology.

Note: Students wishing to undertake a major program involving a discipline outside of the Faculty of Science as in 1(b) and 2 above, must first obtain the approval of the Head of the relevant Department or School and verify their planned study program. Recommended major programs can be obtained from the Faculty of Science Office in room 41.258.

3. One of the six special degree programs, as listed below. These programs have separate entry requirements from the general BSc. The approval of the Dean or Sub-Dean is required for entry.
   - Analytical Chemistry
   - Biochemistry
   - Ecology
   - Environment
   - Geochemistry
   - Land and Heritage Management

Refer to the Faculty of Engineering for the following course:
- Bachelor of Science (Physics)
Bachelor of Science (Honours) Advanced

The Advanced Program, designed specifically for high achieving students, offers direct entry into Honours, unlike the normal BSc which delays selection for Honours until the completion of the third year. It offers a greater degree of flexibility in program design through: the possibility of exemptions from some first year subjects; direct entry into some 200-level subjects; the opportunity to undertake individual research subjects at second, third and fourth year level; the opportunity to progress at a faster rate through the use of "fast tracking" mechanisms; the chance to participate in various enrichment activities and to develop a close association with an appropriate member of one of the Department's research teams. In the final year, all students undertake a substantial piece of supervised research in their major discipline together with other required seminar and/or course work.

Study programs are structured on an individual basis in consultation with the Head of Department. Students are required to fulfil all the normal BSc and Honours requirements and may select their major study program from any of those available within the Faculty (refer to Bachelor of Science majors and special programs).

Similar Advanced programs are also available to students wishing to undertake one of the specialist degrees: Bachelor of Biotechnology, Bachelor of Environmental Science, Bachelor of Marine Science and Bachelor of Medicinal Chemistry.

BSc students with an exceptionally high level of performance in first year may apply to enter the program by contacting the Dean or Sub-Dean.

Bachelor of Science (Biological Sciences)

First year (BIOL103, 104) offers a general, self-contained introduction to the Biological Sciences, as well as essential background for future years. There is no requirement for any prior study in biology but participation in the bridging course in February is advised for students without HSC Biology. First year Chemistry (CHEM101, 102) is compulsory for students wishing to complete a Biological Sciences major. Participation in the Chemistry bridging course is also recommended for students without HSC Chemistry. MATH151 is a requirement for any student who has not obtained a pass of at least 72/100 in 2 unit Maths or 33/50 in 3 unit Maths at the HSC. This is a basic introduction to the skills in Mathematics that are relevant to future studies.

Students proceeding to a Biological Sciences major are strongly encouraged to take more than the minimum array of Biological Sciences subjects, especially at second year.

Third Year Biological Sciences subjects are available to any student with the relevant pre-requisites. All students majoring in Biological Sciences must take at least three 300-level subjects that form a coherent course of study. Approved subject combinations are (i) BIOL320, 321, and one of BIOL 303, 332, 392 (ii) BIOL 351, 355 and one of BIOL 332, 357 and 392. Other subject combinations are possible and should be discussed with the Head of Department.

Advanced Biology Project (BIOL392) is an 8-credit point project-based subject and Advanced Biology (BIOL391) is a 16 credit point project-based subject. These two subjects are available for high-quality students wishing to complement their coursework with research projects. Entry into these subjects is by permission of the Coordinator and requires good performance (usually Distinction average) in four 200-level Biological Sciences subjects.

An elective subject, BIOL357 - Field Methods in Ecology, is offered in Summer Session for students wishing to gain additional field experience.

Students with a good academic record, particularly in third year (eg. At least a credit average in relevant subjects) are encouraged to proceed to the Honours year, a fourth year of study which provides a training in independent research.

Biological Sciences Major Study

100-Level

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL103</td>
<td>Molecules, Cells and Organisms</td>
<td>6</td>
</tr>
<tr>
<td>BIOL104</td>
<td>Evolution, Biodiversity and Environment</td>
<td>6</td>
</tr>
<tr>
<td>Either</td>
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</tr>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A</td>
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<tr>
<td>or</td>
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<td>CHEM104</td>
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<td>CHEM102</td>
<td>Chemistry 1B</td>
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<td>or</td>
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<tr>
<td>CHEM105</td>
<td>Chemistry 1E</td>
<td>6</td>
</tr>
<tr>
<td>MATH151</td>
<td>General Mathematics 1A (if required)</td>
<td>6</td>
</tr>
</tbody>
</table>
200-Level

Four of the following subjects (24 credit points) plus Statistics (STAT252)

- BIOL213 Principles of Biochemistry 6
- BIOL214 The Biochemistry of Energy and Metabolism 6
- BIOL215 Introductory Genetics 6
- BIOL240 Functional Biology of Plants and Animals 6
- BIOL241 Biodiversity: Classification and Sampling 6
- BIOL251 Principles of Ecology and Evolution 6
- MARE200 Introduction to Oceanography 6
- STAT252 Statistics for Natural Sciences (or other Statistics subject approved by the Department of Biological Sciences) 6

Note: A fourth Biological Sciences 200-level subject may be waived for students taking both a Biological Sciences major and a major from the School of Geosciences. STAT252 may be waived for programs combining 300-level Biological Sciences and some other disciplines.

300-Level

An approved combination of three of the following subjects (at least 24 credit points):

- BIOL303 Biotechnology: Applied Molecular and Cell Biology 8
- BIOL318 Bioinformatics 8
- BIOL320 Molecular Cell Biology 8
- BIOL321 Cellular and Molecular Immunology 8
- BIOL332 Ecological and Evolutionary Physiology 8
- BIOL351 Conservation Biology: Marine and Terrestrial Populations 8
- BIOL355 Marine and Terrestrial Ecology 8
- MARE300 Fisheries and Aquaculture 8
- BIOL391 Advanced Biology 16
- BIOL392 Advanced Biology project 8

Plus additional elective subjects at any level (subject to prerequisite requirements) chosen from the Science Schedule to total 90 credit points.

Plus additional elective subjects chosen from the Science Schedule or General Schedule to total 144 credit points.

400-Level

Honours Program

- BIOL401 Biology Honours 48
- BIOL402 Biology Joint Honours 24

Bachelor of Science (Chemistry)

Chemistry is the study of the molecular nature of all matter and its interactions. The relationship between its structure and a molecule’s properties and reactivity give chemistry an essential, central position in science and technology. An understanding of chemistry is needed for the full gamut of technology based disciplines from solid-state physics and astro-physics to molecular biology and the life sciences; from geochemistry and environmental science to engineering and health sciences. Chemistry 1A and 1B, or Chemistry 1D and 1E for students with an inadequate background in chemistry, provide the basic framework and concepts to students progressing onto 200 and higher level chemistry subjects as well as being suitable for those majoring in other areas.

A major in chemistry (set out below) consists of the four core 200 level subjects, together with an approved combination of 300 level subjects offered by the Department of Chemistry, with a value of at least 24 credit points. Completion of this major qualifies graduates for membership of the Royal Australian Chemical Institute.

The Department offers a third year research subject CHEM340 to students with a good academic record (usually a credit average or better) who wish to gain experience in research. Entry into this subject is by permission of the Head of Department.

Students with a good record, particularly in 3rd year (eg. credit average or above) are encouraged to proceed to Honours year, a fourth year of study providing training in independent research.
Major Study in Chemistry

100-Level
Either
CHEM101 Chemistry 1A 6
or
CHEM104 Chemistry 1D 6
Either
CHEM102 Chemistry 1B 6
or
CHEM105 Chemistry 1E 6

200-Level
CHEM211 Inorganic Chemistry II 6
CHEM212 Organic Chemistry II 6
CHEM213 Physical Chemistry II 6
CHEM214 Analytical and Environmental Chemistry II 6

300-Level
Any three subjects taken from the following list:
CHEM311 Inorganic Chemistry III 8
CHEM314 Instrumental Analysis 8
CHEM320 Biological Chemistry 8
CHEM321 Organic Synthesis and Reactivity 8
CHEM327 Environmental Chemistry 8
CHEM340 Chemistry Laboratory Project 8
CHEM364 Molecular Structure and Spectroscopy 8
Plus additional subjects at any level (subject to prerequisite requirements) chosen from the Science Schedule to total 90 credit points.
Plus additional elective subjects chosen from the Science Schedule or General Schedule to total 144 credit points.

400-level
Honours Program
CHEM401 Chemistry Honours 48
CHEM402 Chemistry Honours Part 1 for Part Time Students 24
CHEM403 Chemistry Honours Part 2 for Part Time Students 24
CHEM405 Chemistry Joint Honours 24
Entry to the Chemistry IV single Honours course normally requires the completion of at least four 300-level Chemistry subjects (32 credit points at 300-level). For entry to a joint Honours program at least three 300-level Chemistry subjects (24 credit points) should have been completed.

Bachelor of Science (Human Geography, Physical Geography, Geology, Geosciences)
The School of Geosciences comprises the disciplines of Geography and Geology, and offers the following major studies. Students may undertake one major study or combine two.

i) Human Geography

ii) Physical Geography

iii) Geology

iv) Geosciences

i) Major Study in Human Geography

100-Level
GEOS112 Physical Environments 6
GEOS142 The Human Environment: Problems and Changes 6
Course Structures

200 -Level
GEOS242 Living in Cities 6
GEOS243 Rural Australia: Economy, Community and Environment 6
GEOS246 A Hungry World: Food Resources and the World Economy 6
Plus one subject chosen from the following:
GEOS231 Environmental Impact of Societies 6
GEOS234 Environmental Prehistory of Australia 6
GEOS239 Remote Sensing of the Environment 6

300-Level
At least three subjects selected from
GEOS331 Environmental Management and Decision-making 8
GEOS339 Geographic Information Systems 8
GEOS347 Northern Neighbours: Economic and Social Change in the Asia-Pacific Rim 8
GEOS348 Cultural Landscapes 8
GEOS349 Population, Health and Environment 8
Plus additional elective subjects at any level (subject to prerequisite requirements) chosen from the Science Schedule to total 90 credit points. Plus additional elective subjects chosen from the Science Schedule or General Schedule to total 144 credit points.

ii) Major Study in Physical Geography

100-Level
GEOS111 Planet Earth 6
GEOS102 Earth Environments and Resources 6
GEOS112 Physical Environments 6
GEOS142 The Human Environment: Problems and Change 6

200-Level
Any four subjects from the following
GEOS214 Soils, Landscape and Hydrology 6
GEOS217 Field Techniques in Earth Sciences 6
GEOS220 Climate and Natural Hazards 6
GEOS222 Biogeography 6
GEOS231 Environmental Impact of Societies 6
GEOS234 Environmental Prehistory of Australia 6
GEOS239 Remote Sensing of the Environment 6

300-Level
Any three subjects from the following
GEOS339 Geographic Information Systems 8
GEOS321 Fluvial Geomorphology, Sedimentology and River Management 8
MARE322 Global Environmental Change 8
MARE323 Coastal Environments: Process and Management 8
Recommended as elective subjects
GEOS315 Field Studies in Physical Geography 8
GEOS331 Environmental Management and Decision-Making 8
Plus additional subjects at any level (subject to prerequisite requirements) chosen from the Science Schedule to total 90.

iii) Major Study in Geology

100-Level
GEOS111 Planet Earth 6
GEOS102 Earth Environments and Resources 6
GEOS112 Physical Environments 6
Recommended as an elective subject
GEOS142 The Human Environment: Problems and Change 6
200-Level
GEOS205 Field Geology I 6
GEOS214 Soils, Landscape and Hydrology 6
GEOS217 Field Techniques in Earth Sciences 6
GEOS219 The Earth in Crisis 6
GEOS239 Remote Sensing of the Environment 6
Recommended as elective subjects
GEOS220 Climate and Natural Hazards 6
GEOS231 Environmental Impacts of Society 6
MARE218 Marine Sediments and Fossils 6

300-Level
At least three subjects taken from the following list
GEOS305 Field Geology II 8
GEOS302 Basin Resources 8
GEOS304 Dynamic Earth 8
GEOS307 Mineral Resources 8
Recommended as elective subjects
GEOS315 Field Studies in Physical Geography 8
GEOS321 Fluvial Geomorphology, Sedimentology and River Management 8
GEOS339 Geographic Information Systems 8
MARE322 Global Environmental Change 8
MARE323 Coastal Environments: Process and Management 8
Plus additional subjects at any level (subject to prerequisite requirements) chosen from the Science Schedule to total 90.

iv) Major Study in Geosciences

100-Level
GEOS111 Planet Earth 6
GEOS102 Earth Environments and Resources 6
GEOS112 Physical Environments 6
GEOS142 The Human Environment: Problems and Change 6

200-Level
At least 4, and up to 8, subjects from the School of Geosciences, at 200-level

300-Level
At least 3, and up to 6, subjects from the School of Geosciences, at 300-level, subject to appropriate prerequisites. Plus additional subjects at any level (subject to prerequisite requirements) chosen from the Science Schedule to total 90 credit points. Plus additional elective subjects chosen from the Science Schedule or General Schedule.

400-Level
Honours Program in Human Geography, Physical Geography, Geology or Geosciences
GEOS401 Geosciences Honours 48
GEOS402 Geosciences Joint Honours 24
Students with a good academic record, particularly in third year are encouraged to proceed to the Honours year, a fourth year of study which provides a training in independent research.

Bachelor of Science (Analytical Chemistry)
This degree provides students with the necessary background and skills to gain employment as analytical chemists. Statistics, Business Computing, Physics and Management subjects have been included as useful additional skills in the laboratory and in later career development such as laboratory and business management. The inclusion of optional Geosciences subjects provides a background for students interested in environmental or mining analyses. The approval of the Dean or Sub-Dean is required for entry to the degree. The Coordinator is Dr Dianne Jolley.
Course Structures

**100-Level**

Either

- CHEM101 Chemistry 1A 6
- or
- CHEM104 Chemistry 1D 6

Either

- CHEM102 Chemistry 1B 6
- or
- CHEM105 Chemistry 1E 6

BUSS110 Introductory Business Computing A 6

BUSS111 Introductory Business Computing B 6

Plus either

- GEOS102 Earth Environments and Resources 6
- GEOS112 Physical Environments 6
- MATH151 General Mathematics 1A 6
- PHYS132 Physics for the Environmental and Life Sciences B 6
- or
- MATH187 Mathematics 1A, Part 1 (or MATH141/161) 6
- MATH188 Mathematics 1A, Part 2 (or MATH142/162) 6
- PHYS131 Physics for the Environmental and Life Sciences A 6
- PHYS132 Physics for the Environmental and Life Sciences B 6

**200-Level**

CHEM211 Inorganic Chemistry II 6

CHEM212 Organic Chemistry II 6

CHEM213 Physical Chemistry II 6

CHEM214 Analytical and Environmental Chemistry II 6

STAT252 Statistics for the Natural Sciences 6

MGMT308 Introduction to Management for Professionals A 8

MGMT350 Total Quality Management 6

Plus one elective subject chosen in consultation with the course coordinator

**300-Level**

CHEM314 Instrumental Analysis 8

CHEM364 Molecular Structure and Spectroscopy 8

CHEM327 Environmental Chemistry 8

MGMT398 Human Resource Management 6

MGMT321 Management of Occupational Health and Safety 6

Plus two of the following subjects

CHEM311 Inorganic Chemistry III 8

CHEM320 Biological Chemistry 8

CHEM321 Organic Synthesis and Reactivity 8

CHEM340 Chemistry Laboratory Project 8

GEOS239 Remote Sensing of the Environment 6

GEOS214 Soils, Landscapes and Hydrology 6

PHYS233 Introduction to Intermediate Physics 6

Note: The above structure yields 4 additional credit points in 3rd Year than the required 48.

Students who achieve the required standard are eligible to enrol in the Chemistry Honours program.
Bachelor of Science (Biochemistry)

Biochemistry is the study of the chemistry of living organisms and involves defining the structure, organisation, function and regulation of living organisms in molecular terms. This program has a multi-disciplinary approach and a flexible structure that provides students with the choice of three strands: a Structural Stream, a Cell and Molecular Stream and a Metabolism and Physiology Stream. Information on these streams can be obtained from the Departments of Biological Sciences and Chemistry or the Faculty of Science Office. Approval is required for entry to this degree program.

The Joint Coordinators of the program are Associate Professor John Carver (Department of Chemistry) and Associate Professor Ross Lilley (Department of Biological Sciences).

100 Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL103</td>
<td>Molecules, Cells and Organisms</td>
<td>6</td>
</tr>
<tr>
<td>BIOL104</td>
<td>Evolution, Biodiversity and Environment</td>
<td>6</td>
</tr>
<tr>
<td>Either</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM104</td>
<td>Chemistry 1D</td>
<td>6</td>
</tr>
<tr>
<td>Either</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM102</td>
<td>Chemistry 1B</td>
<td>6</td>
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<td>or</td>
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</tr>
<tr>
<td>CHEM105</td>
<td>Chemistry 1E</td>
<td>6</td>
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<tr>
<td>Plus either</td>
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</tr>
<tr>
<td>PHYS131</td>
<td>Physics for Environmental and Life Sciences A</td>
<td>6</td>
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<tr>
<td>PHYS132</td>
<td>Physics for Environmental and Life Sciences B</td>
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<td>BMS101</td>
<td>Systemic Anatomy</td>
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<tr>
<td>BMS112</td>
<td>Human Physiology 1: Principles and Systems</td>
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<td>or</td>
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<tr>
<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
<td>6</td>
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<tr>
<td>PHYS142</td>
<td>Fundamentals of Physics B</td>
<td>6</td>
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<tr>
<td>MATH187</td>
<td>Mathematics 1A Part 1 (or MATH141/161)</td>
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<tr>
<td>MATH188</td>
<td>Mathematics 1B Part 2 (or MATH142/162)</td>
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</table>

Note: PHYS131 may need to be replaced by MATH151 if entering the program with below the Science Minimum Mathematics Requirement of at least HSC Mathematics Band 4.

200 Level

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
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<tr>
<td>BIOL214</td>
<td>The Biochemistry of Energy and Metabolism</td>
<td>6</td>
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<tr>
<td>BIOL215</td>
<td>Introductory Genetics</td>
<td>6</td>
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<td>CHEM211</td>
<td>Inorganic Chemistry II</td>
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<tr>
<td>CHEM212</td>
<td>Organic Chemistry II</td>
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<tr>
<td>CHEM214</td>
<td>Analytical and Environmental Chemistry II</td>
<td>6</td>
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<tr>
<td>plus two of the following</td>
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<td></td>
</tr>
<tr>
<td>BIOL240</td>
<td>Functional Biology of Plants and Animals</td>
<td>6</td>
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<tr>
<td>CHEM213</td>
<td>Physical Chemistry II</td>
<td>6</td>
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<td>BMS202</td>
<td>Human Physiology II</td>
<td>6</td>
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<tr>
<td>BMS204</td>
<td>Introduction to Pathophysiology II</td>
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</tbody>
</table>

300 Level

An approved combination of at least 24 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>BIOL303</td>
<td>Biotechnology: Applied Molecular and Cell Biology</td>
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<tr>
<td>BIOL320</td>
<td>Molecular Cell Biology</td>
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<td>CHEM320</td>
<td>Biological Chemistry</td>
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<td>Plus three of the following</td>
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<tr>
<td>BIOL321</td>
<td>Cellular and Molecular Immunology</td>
<td>8</td>
</tr>
<tr>
<td>CHEM321</td>
<td>Organic Synthesis and Reactivity</td>
<td>8</td>
</tr>
<tr>
<td>CHEM364</td>
<td>Molecular Structure and Spectroscopy</td>
<td>8</td>
</tr>
</tbody>
</table>
Course Structures

CHEM314  Instrumental Analysis
CHEM350  Principles of Pharmacology
PHN301  Nutrients and Metabolism

(Consult subject co-ordinator) Advanced Biochemistry Project.

If the required academic standard is attained the Biochemistry student may proceed to an Honours year (one year research project) within any of the Departments of Biological Sciences, Biomedical Science or Chemistry or to a joint project between any two of these Departments.

Bachelor of Science (Ecology)

This is a 3 year degree program. Appropriate subjects in Biological Sciences and Geosciences are combined with mathematics and statistics to form the following program. Approval is required for entry to this program. Coordinator: Associate Professor David Ayre.

100 Level

BIOL104  Evolution, Biodiversity and the Environment
BIOL103  Molecules, Cells and Organisms
GEOS102  Earth Environments and Resources
GEOS112  Physical Environments
MATH111  Applied Mathematical Modelling
STAT131  Understanding Variation and Uncertainty
MATH187  Mathematics 1A Part 1 (or MATH141/161)
MATH188  Mathematics 1B Part 2 (or MATH142/162)

200 Level

BIOL240  Functional Biology of Plants and Animals
BIOL241  Biodiversity: Classification and Sampling
BIOL251  Principles of Ecology and Evolution
GEOS220  Climate and Natural Hazards
GEOS239  Remote Sensing of the Environment
GEOS222  Biogeography
STAT252  Statistics for the Natural Sciences

Plus 6 credit points from

Either

CHEM101  Chemistry 1A

or

CHEM104  Chemistry 1D

Either

CHEM102  Chemistry 1B

or

CHEM105  Chemistry 1E
STAT231  Probability and Random Variables
STAT232  Estimation and Hypothesis Testing
GEOS231  Environmental Impact of Societies

or other subjects as approved by the course coordinator.

Note: STAT252 is NOT included if STAT131 or 232 is taken. MATH187 and MATH188 are prerequisite for STAT231 and 232

300 Level

BIOL351  Conservation Biology
BIOL355  Marine and Terrestrial Ecology
STAT355  Sample Surveys and Experimental Design (with project)
MARE322  Global Environmental Change

Plus 16 credit points from

BIOL332  Ecological and Evolutionary Physiology
BIOL357  Field Techniques in Ecology
BIOL392  Advanced Biology Project
GEOS339  Geographic Information Systems
MARE323  Coastal Environments
Bachelor of Science (Environment)

This is a broad, flexible degree program offered jointly by the Departments of Biological Sciences and Chemistry and the School of Geosciences as an alternative to the more comprehensive four-year Bachelor of Environmental Science. The program has separate entry requirements from the general BSc. The approval of the Dean or Sub-Dean is required for entry to the program.

There are two strands available within the program:

a) Biological Sciences/Chemistry/Geosciences Strand.

Students may elect to specialise in one of these disciplines.

Coordinator: Associate Professor Adrian Hutton

b) Physical Sciences Strand.

This strand combines Chemistry and Physics and is aimed at the physical sciences end of the broad environmental spectrum.

Coordinator: Associate Professor David Griffith

a) Biological Sciences/Chemistry/Geosciences Strand.

First Year

<table>
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<tr>
<th>Code</th>
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<th>Credit</th>
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<tr>
<td>BIOL103</td>
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<td>CHEM102</td>
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<td>CHEM105</td>
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<td>GEOS142</td>
<td>The Human Environment Problems and Change</td>
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<tr>
<td>GEOS112</td>
<td>Physical Environments</td>
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<td>GEOS111</td>
<td>Planet Earth</td>
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<tr>
<td>GEOS102</td>
<td>Earth Environments and Resources</td>
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</tbody>
</table>

Note: Students entering without a minimum of HSC Mathematics Band 4 (or equivalent) are required to satisfactorily complete MATH151 General Mathematics. This subject may be taken in the preceding Summer Session, the Summer Session between Year 1 and 2 or in Autumn Session of Year 2.

Second Year

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BIOL251</td>
<td>Principles of Ecology and Evolution</td>
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<tr>
<td>CHEM214</td>
<td>Analytical and Environmental Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>GEOS222</td>
<td>Biogeography</td>
<td>6</td>
</tr>
<tr>
<td>GEOS239</td>
<td>Remote Sensing of the Environment</td>
<td>6</td>
</tr>
<tr>
<td>STAT252</td>
<td>Statistics for the Natural Sciences</td>
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</tr>
<tr>
<td>PHYS233</td>
<td>Environmental Physics</td>
<td>6</td>
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</tbody>
</table>

Options: Plus two of the following subjects (one of which should be MATH151 if minimum mathematics require work not already met), as approved, to total 48 credit points:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MATH151</td>
<td>General Mathematics (if required)</td>
<td>6</td>
</tr>
<tr>
<td>BIOL240</td>
<td>Functional Biology of Plants and Animals</td>
<td>6</td>
</tr>
<tr>
<td>BIOL241</td>
<td>Biodiversity: Classification and Sampling</td>
<td>6</td>
</tr>
<tr>
<td>CHEM211</td>
<td>Inorganic Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM212</td>
<td>Organic Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM213</td>
<td>Physical Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>GEOS205</td>
<td>Field Geology I</td>
<td>6</td>
</tr>
<tr>
<td>GEOS214</td>
<td>Soils, Landscape and Hydrology</td>
<td>6</td>
</tr>
<tr>
<td>GEOS217</td>
<td>Field Techniques in Earth Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>
Course Structures

GEOS219 The Earth in Crisis 6
GEOS220 Climate and Natural Hazards 6
GEOS231 Environmental Impact of Societies 6
GEOS234 Environmental Prehistory of Australia 6
MARE200 Introduction to Oceanography 6

Third Year
ENVI391 Environmental Science 8
GEOS339 Geographic Information Systems 8

Options: Plus four of the following subjects, as approved
BIOL351 Ecological and Evolutionary Physiology 8
BIOL356 Marine and Terrestrial Ecology (Environmental Science) 8
BIOL357 Field Methods in Ecology 8
CHEM314 Instrumental Analysis 8
CHEM327 Environmental Chemistry 8
GEOS305 Field Geology II 8
GEOS302 Basin Resources 8
GEOS307 Mineral Resources 8
GEOS321 Fluvial Geomorphology, Sedimentology and River Management 8
GEOS331 Environmental Management and Decision-Making 8
MARE300 Fisheries and Aquaculture 8
MARE322 Global Environmental Change 8
MARE323 Coastal Environments: Process and Management 8

Honours
Students would be eligible to enrol in Honours in their chosen discipline, Biological Sciences, Geosciences or Chemistry.

b) Physical Sciences Strand

First Year
Either
CHEM101 Chemistry 1A 6
or
CHEM104 Chemistry 1D 6
Either
CHEM102 Chemistry 1B 6
or
CHEM105 Chemistry 1E 6
PHYS141 Fundamentals of Physics A 6
PHYS142 Fundamentals of Physics B 6
MATH187 Mathematics 1A Part 1 (or MATH141/161) 6
MATH188 Mathematics 1B Part 2 (or MATH142/162) 6
GEOS112 Physical Environments 6
CSCI111 Computing Science 1A 6

Second Year
CHEM213 Physical Chemistry II 6
CHEM214 Analytical and Environmental Chemistry II 6
PHYS230 Intermediate Physics 6
PHYS235 Mechanics and Thermodynamics 6
PHYS233 Environmental Physics 6
MATH283 Mathematics 2E for Engineers Part 1 6
BIOL352 Biology for Environmental Engineers 6

Third Year
Core subjects
PHYS375 Nuclear and Solid State Physics 8
CHEM314 Instrumental Analysis 8
CHEM327 Environmental Chemistry 8
ENVE221 Air and Noise Pollution 6
GEOS239 Remote Sensing of the Environment 6
Options: plus 2-3 of the following as approved to total a minimum of 48 cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVE321</td>
<td>Solid and Hazardous Waste Management</td>
<td>8</td>
</tr>
<tr>
<td>ENVI385</td>
<td>Environmental Engineering</td>
<td>8</td>
</tr>
<tr>
<td>ENVI411</td>
<td>Aqueous and Atmospheric Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>PHYS305</td>
<td>Quantum Mechanics</td>
<td>8</td>
</tr>
<tr>
<td>PHYS335</td>
<td>Classical Mechanics</td>
<td>8</td>
</tr>
<tr>
<td>PHYS325</td>
<td>Electromagnetism</td>
<td>8</td>
</tr>
<tr>
<td>CHEM364</td>
<td>Molecular Structure and Spectroscopy</td>
<td>8</td>
</tr>
</tbody>
</table>

plus electives as approved by Course Coordinator.

Fourth Year - Honours

Students would be eligible to apply for enrolment in Honours or Joint Honours in the discipline(s) of their choice. The Honours year will normally involve both coursework and research thesis components.

Bachelor of Science (Geochemistry)

This three-year special program combines majors in Geology and Chemistry to provide a strong background and skills in geochemical exploration.

Approval is required for entry to the program. The Coordinator is Professor Allan Chivas.

100-Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS111</td>
<td>Planet Earth</td>
<td>6</td>
</tr>
<tr>
<td>GEOS102</td>
<td>Earth Environments and Resources</td>
<td>6</td>
</tr>
<tr>
<td>GEOS112</td>
<td>Physical Environments</td>
<td>6</td>
</tr>
</tbody>
</table>

Either

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A</td>
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</tr>
<tr>
<td>CHEM104</td>
<td>Chemistry 1D</td>
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Either

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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM102</td>
<td>Chemistry 1B</td>
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<tr>
<td>CHEM105</td>
<td>Chemistry 1E</td>
<td>6</td>
</tr>
<tr>
<td>PHYS131</td>
<td>Physics for the Environmental and Life Sciences A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS132</td>
<td>Physics for the Environmental and Life Sciences B</td>
<td>6</td>
</tr>
<tr>
<td>MATH 151</td>
<td>General Mathematics 1A (if required) or an elective subject</td>
<td>6</td>
</tr>
</tbody>
</table>

200-Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM211</td>
<td>Inorganic Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM212</td>
<td>Organic Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM213</td>
<td>Physical Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM214</td>
<td>Analytical and Environmental Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>GEOS205</td>
<td>Field Geology I</td>
<td>6</td>
</tr>
<tr>
<td>GEOS214</td>
<td>Soils, Landscape and Hydrology</td>
<td>6</td>
</tr>
<tr>
<td>GEOS217</td>
<td>Field Techniques in Earth Sciences</td>
<td>6</td>
</tr>
<tr>
<td>GEOS219</td>
<td>The Earth in Crisis</td>
<td>6</td>
</tr>
</tbody>
</table>

300-Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM311</td>
<td>Inorganic Chemistry III</td>
<td>8</td>
</tr>
<tr>
<td>CHEM314</td>
<td>Instrumental Analysis</td>
<td>8</td>
</tr>
<tr>
<td>CHEM327</td>
<td>Environmental Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>GEOS305</td>
<td>Field Geology II</td>
<td>8</td>
</tr>
<tr>
<td>GEOS302</td>
<td>Basin Resources</td>
<td>8</td>
</tr>
<tr>
<td>GEOS339</td>
<td>Geographic Information Systems</td>
<td>8</td>
</tr>
</tbody>
</table>
Course Structures

**Bachelor of Science (Land & Heritage Management)**

This is a 3-year special degree program structured to provide a core grounding in both the human and physical geography strands and to provide the skills to work on both cultural and natural heritage issues or in land management. Approval is required for entry to this degree program. Co-ordinator: Dr Gordon Waitt.

**100-Level**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS102</td>
<td>Earth Environments and Resources</td>
<td>6</td>
</tr>
<tr>
<td>GEOS112</td>
<td>Physical Environments</td>
<td>6</td>
</tr>
<tr>
<td>GEOS142</td>
<td>The Human Environment: Problems and Change</td>
<td>6</td>
</tr>
</tbody>
</table>

Recommended as elective subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS111</td>
<td>Planet Earth</td>
<td>6</td>
</tr>
<tr>
<td>BIOL103</td>
<td>Molecules, Cells and Organisms</td>
<td>6</td>
</tr>
<tr>
<td>BIOL104</td>
<td>Evolution, Biodiversity and Environment</td>
<td>6</td>
</tr>
<tr>
<td>MATH151</td>
<td>General Mathematics (required if entering the program without at least HSC Mathematics Band 4 or equivalent)</td>
<td>6</td>
</tr>
</tbody>
</table>

Students are also encouraged to select from the General Schedule offerings in History, Aboriginal Studies, STS and Legal Studies.

**200-Level**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS242</td>
<td>Living in Cities</td>
<td>6</td>
</tr>
<tr>
<td>GEOS243</td>
<td>Rural Australia</td>
<td>6</td>
</tr>
</tbody>
</table>

*Either*

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS234</td>
<td>Environmental Prehistory of Australia</td>
<td>6</td>
</tr>
</tbody>
</table>

*or*

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS348</td>
<td>Cultural Landscapes</td>
<td>8</td>
</tr>
<tr>
<td>GEOS222</td>
<td>Biogeography</td>
<td>6</td>
</tr>
<tr>
<td>GEOS231</td>
<td>Environmental Impact of Societies</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus at least two subjects chosen from the following list

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS246</td>
<td>A Hungry World: Food Resources and the World Economy</td>
<td>6</td>
</tr>
<tr>
<td>GEOS239</td>
<td>Remote Sensing of the Environment</td>
<td>6</td>
</tr>
<tr>
<td>GEOS220</td>
<td>Climate and Natural Hazards</td>
<td>6</td>
</tr>
<tr>
<td>GEOS214</td>
<td>Soils, Landscape and Hydrology</td>
<td>6</td>
</tr>
<tr>
<td>BIOL251</td>
<td>Principles of Ecology and Evolution</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus an elective subject

**300-Level**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS339</td>
<td>Geographic Information Systems</td>
<td>8</td>
</tr>
<tr>
<td>GEOS331</td>
<td>Environmental Management and Decision-Making</td>
<td>8</td>
</tr>
</tbody>
</table>

*Either*

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS234</td>
<td>Environmental Prehistory of Australia</td>
<td>6</td>
</tr>
</tbody>
</table>

*or*

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS348</td>
<td>Cultural Landscapes</td>
<td>8</td>
</tr>
</tbody>
</table>

Plus three subjects chosen from the following list

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS315</td>
<td>Field Studies in Physical Geography</td>
<td>8</td>
</tr>
<tr>
<td>GEOS347</td>
<td>Northern Neighbours: Economic and Social Change in the Asia-Pacific Rim</td>
<td>8</td>
</tr>
<tr>
<td>GEOS349</td>
<td>Population, Health and Environment</td>
<td>8</td>
</tr>
<tr>
<td>GEOS381</td>
<td>Directed Studies</td>
<td>8</td>
</tr>
<tr>
<td>MARE322</td>
<td>Global Environmental Change</td>
<td>8</td>
</tr>
<tr>
<td>MARE323</td>
<td>Coastal Environments</td>
<td>8</td>
</tr>
</tbody>
</table>
Bachelor of Biotechnology

This degree is a four year professional qualification awarded either with or without Honours. Successful completion of prescribed subjects (set out in the following course structure) with a total of at least 192 credit points is necessary for the award of either the pass or honours degree.

Students achieving the required entry HSC UAI ranking will be allowed to enrol in the degree program for which only 25 places are available. Other students may be permitted to enter the program at the end of subsequent years of study if they have obtained a suitably high standard in designated subjects at this University or similar subjects at other Institutions.

100 Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL103</td>
<td>Molecules, Cells and Organisms</td>
<td>6</td>
</tr>
<tr>
<td>BIOL104</td>
<td>Evolution, Biodiversity and Environment</td>
<td>6</td>
</tr>
<tr>
<td>Either</td>
<td>CHEM101</td>
<td>Chemistry 1A</td>
</tr>
<tr>
<td>or</td>
<td>CHEM104</td>
<td>Chemistry 1D</td>
</tr>
<tr>
<td>Either</td>
<td>CHEM102</td>
<td>Chemistry 1B</td>
</tr>
<tr>
<td>or</td>
<td>CHEM105</td>
<td>Chemistry 1E</td>
</tr>
<tr>
<td>MATH151</td>
<td>General Mathematics A (if required)</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus other elective subjects to give a total credit point value of 48, at least 6 of which should be one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS132</td>
<td>Physics for the Environmental and Life Sciences</td>
<td>6</td>
</tr>
<tr>
<td>STS100</td>
<td>Science and Technology Studies: Introduction to Science and Technology</td>
<td>6</td>
</tr>
<tr>
<td>STS100</td>
<td>Studies in their social context</td>
<td></td>
</tr>
<tr>
<td>BMS101</td>
<td>Systemic Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>BMS112</td>
<td>Human Physiology I: Principles and Systems</td>
<td>6</td>
</tr>
</tbody>
</table>

Note: PHYS132 is strongly recommended

STS100 is compulsory for those students taking an approved course of study which does not include STS250

200 Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>BIOL214</td>
<td>The Biochemistry of Energy and Metabolism</td>
<td>6</td>
</tr>
<tr>
<td>BIOL215</td>
<td>Introductory Genetics</td>
<td>6</td>
</tr>
<tr>
<td>BIOL240</td>
<td>Functional Biology of Plants and Animals</td>
<td>6</td>
</tr>
<tr>
<td>STAT252</td>
<td>Statistics for the Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td>CHEM212</td>
<td>Organic Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM214</td>
<td>Analytical and Environmental Chemistry II</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus one of the following subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS250</td>
<td>From Molecular Genetics to Biotechnology</td>
<td>6</td>
</tr>
<tr>
<td>BMS202</td>
<td>Human Physiology II: Control Mechanisms</td>
<td>6</td>
</tr>
</tbody>
</table>

300 Level

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL303</td>
<td>Biotechnology: Applied Cell and Molecular Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL320</td>
<td>Molecular Cell Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL321</td>
<td>Cellular and Molecular Immunology</td>
<td>8</td>
</tr>
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</table>

Plus one of the following subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM350</td>
<td>Principles of Pharmacology</td>
<td>8</td>
</tr>
<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
<td>8</td>
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</table>

Plus two of the following subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL318</td>
<td>Bioinformatics</td>
<td>8</td>
</tr>
<tr>
<td>BIOL332</td>
<td>Ecological and Evolutionary Physiology</td>
<td>8</td>
</tr>
<tr>
<td>MGMT310</td>
<td>Introduction to Management for Professionals B</td>
<td>8</td>
</tr>
<tr>
<td>CHEM321</td>
<td>Organic Synthesis and Reactivity</td>
<td>8</td>
</tr>
<tr>
<td>BMS344</td>
<td>Cardiorespiratory Physiology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL392*</td>
<td>Advanced Biology Project</td>
<td>8</td>
</tr>
</tbody>
</table>

Please note: Students must satisfactorily complete at least 144 credit points before proceeding to enrol in fourth year subjects.

*Distinction average for 200 level Biological Sciences is required for entry.
Course Structures

400 Level
BIOL420 Cell, Protein and Antibody Technology 12
BIOL421 Nucleic Acid Technology 12
BIOL422 Biotechnology Project 24

Bachelor of Biotechnology - Advanced
Students with a UAI of at least 90 who wish to undertake the Bachelor of Biotechnology are eligible for the Bachelor of Biotechnology - Advanced. For information on this degree refer to the Bachelor of Science - Advanced and consult the Biotechnology Co-ordinator, Associate Professor Mark Wilson.

Bachelor of Environmental Science
This course consists of a four-year full-time, or equivalent part-time, program leading to a pass or honours degree of Bachelor of Environmental Science. All students complete common first and second year programs. In third and fourth years students specialise in one of the four strands:
- Earth Sciences
- Land Resources
- Life Sciences
- Pollution Control

The awarding of an honours degree is based on the student's performance in selected subjects offered in third and fourth years of the course. Students will be informed of the subjects on which the Honours assessment is based.

Common 1st Year Program

Autumn Session
BIOL104 Evolution, Biodiversity and Environment 6
Either
CHEM101 Chemistry 1A 6
or
CHEM104 Chemistry 1D 6
GEOS111 Planet Earth 6
GEOS112 Physical Environments 6

Spring Session
BIOL103 Molecules, Cells and Organisms 6
Either
CHEM102 Chemistry 1B 6
or
CHEM105 Chemistry 1E 6
GEOS102 Earth Environments and Resources 6
GEOS142 The Human Environment: Problems and Change 6
Summer Session if required (ie if entering the degree without at least HSC Mathematics Band 4 or equivalent)
MATH151 General Mathematics 1A 6
### Common 2nd Year Program

<table>
<thead>
<tr>
<th>Autumn Session</th>
<th>Alternative Program if Life Sciences Strand is selected in second year</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL251</td>
<td>Principles of Ecology and Evolution</td>
</tr>
<tr>
<td>PHYS233</td>
<td>Environmental Physics</td>
</tr>
<tr>
<td>PHIL256</td>
<td>Ethics and the Environment</td>
</tr>
<tr>
<td>GEOS222</td>
<td>Biogeography</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Spring Session</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT252</td>
<td>Statistics for the Natural Sciences</td>
</tr>
<tr>
<td>CHEM214</td>
<td>Analytical and Environmental</td>
</tr>
<tr>
<td>GEOS214</td>
<td>Soils, Landscape and Hydrology</td>
</tr>
<tr>
<td>BIOL241</td>
<td>Biodiversity: Classification and Sampling</td>
</tr>
</tbody>
</table>

### 3rd Year Program - Strand Selection

#### Pollution Control

<table>
<thead>
<tr>
<th>Core Subjects</th>
<th>Core Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM211</td>
<td>Inorganic Chemistry II</td>
</tr>
<tr>
<td>CHEM212</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM237</td>
<td>Environmental Chemistry</td>
</tr>
<tr>
<td>STS300</td>
<td>The Environmental Context</td>
</tr>
<tr>
<td>ENVI491</td>
<td>Environmental Science and Systems</td>
</tr>
<tr>
<td>CHEM213</td>
<td>Physical Chemistry II</td>
</tr>
</tbody>
</table>

#### Earth Sciences*

<table>
<thead>
<tr>
<th>Core Subjects</th>
<th>Core Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS217</td>
<td>Field Techniques in Earth Sciences</td>
</tr>
<tr>
<td>GEOS219</td>
<td>Earth in Crisis</td>
</tr>
<tr>
<td>STS300</td>
<td>The Environmental Context</td>
</tr>
<tr>
<td>ENV491</td>
<td>Environmental Science and Systems</td>
</tr>
<tr>
<td>GEOS231</td>
<td>Environmental Impact of Societies</td>
</tr>
<tr>
<td>MARE303</td>
<td>Coastal Environments</td>
</tr>
<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
</tr>
<tr>
<td>CHEM321</td>
<td>Organic Synthesis and Reactivity</td>
</tr>
<tr>
<td>CHEM322</td>
<td>Plus one of the following</td>
</tr>
<tr>
<td>GEOS302</td>
<td>Basin Resources</td>
</tr>
<tr>
<td>GEOS307</td>
<td>Mineral Resources</td>
</tr>
<tr>
<td>GEOS205</td>
<td>Field Geology I (summer session between years 2 and 3)</td>
</tr>
<tr>
<td>MARE218</td>
<td>Marine Sediments and fossils</td>
</tr>
<tr>
<td>GEOS321</td>
<td>Environmental Impact of Societies</td>
</tr>
<tr>
<td>GEOS305</td>
<td>Field Geology II</td>
</tr>
</tbody>
</table>

#### Land Resources

<table>
<thead>
<tr>
<th>Core Subjects</th>
<th>Core Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS339</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>STS300</td>
<td>The Environmental Context</td>
</tr>
<tr>
<td>ENVI491</td>
<td>Environmental Science and Systems</td>
</tr>
<tr>
<td>GEOS231</td>
<td>Environmental Impact of Societies</td>
</tr>
<tr>
<td>MARE303</td>
<td>Coastal Environments</td>
</tr>
<tr>
<td>BIOL240</td>
<td>Functional Biology of Plants and Animals</td>
</tr>
<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
</tr>
<tr>
<td>BIOL321</td>
<td>Fluxal Geomorphology, Sedimentology and River Management</td>
</tr>
<tr>
<td>MARE322</td>
<td>Global Environmental Change</td>
</tr>
<tr>
<td>GEOS339</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>BIOL322</td>
<td>Ecological and Evolutional Physiology</td>
</tr>
</tbody>
</table>

#### Life Sciences

<table>
<thead>
<tr>
<th>Core Subjects</th>
<th>Core Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL241</td>
<td>Biodiversity: Classification and Sampling</td>
</tr>
<tr>
<td>BIOL240</td>
<td>Functional Biology of Plants and Animals</td>
</tr>
<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
</tr>
<tr>
<td>GEOS339</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>BIOL322</td>
<td>Ecological and Evolutional Physiology</td>
</tr>
</tbody>
</table>

#### Elective Subjects

<table>
<thead>
<tr>
<th>Elective Subjects</th>
<th>Elective Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plus one of the following</td>
<td>Plus one of the following</td>
</tr>
<tr>
<td>CHEM430</td>
<td>Biological Chemistry</td>
</tr>
<tr>
<td>CHEM321</td>
<td>Organic Synthesis and Reactivity</td>
</tr>
<tr>
<td>GEOS302</td>
<td>Basin Resources</td>
</tr>
<tr>
<td>GEOS307</td>
<td>Mineral Resources</td>
</tr>
<tr>
<td>GEOS205</td>
<td>Field Geology I (summer session between years 2 and 3)</td>
</tr>
<tr>
<td>MARE218</td>
<td>Marine Sediments and fossils</td>
</tr>
<tr>
<td>GEOS321</td>
<td>Environmental Impact of Societies</td>
</tr>
<tr>
<td>GEOS305</td>
<td>Field Geology II</td>
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</tbody>
</table>

*Subject to confirmation

### Common 4th Year Program - for all Strands

#### Annual

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVI403</td>
<td>Research Report</td>
<td>24</td>
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#### Autumn Session

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENVE385</td>
<td>Environmental Engineering</td>
<td>8</td>
</tr>
<tr>
<td>MGMT308</td>
<td>Introduction of Management for Professionals A</td>
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</tr>
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#### Spring Session

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LAW380</td>
<td>Environmental Law</td>
<td>8</td>
</tr>
</tbody>
</table>
Honours Assessment

The subjects included in the Weighted Average Mark for the calculation of the Honours grade are:

- ENVI403 Research Project
- ENVI491 Environmental Science and Systems

Plus the two subjects with the highest marks, selected from:

- LAW380 Environmental Law
- ENVE385 Environmental Engineering
- STS300 The Environmental Context

Plus the two subjects at 300-level with the highest marks, selected from the core of the science strand specialisation:

- **Earth Sciences Strand:** GEOS301 and GEOS302 or 307
- **Land Resources Strand:** GEOS323 and GEOS321 or 322
- **Life Sciences Strand:** BIOL356 and BIOL351
- **Pollution Control Strand:** CHEM327 and CHEM314 or 320 or 321

Bachelor of Environmental Science - Advanced

Students with a UAI of at least 90 who wish to undertake the Bachelor of Environmental Science are eligible for the Bachelor of Environmental Science - Advanced. For information on this degree refer to the Bachelor of Science - Advanced and consult the Environmental Science Coordinator, Professor John Morrison.

Bachelor of Marine Science

The Bachelor of Marine Science is a 3-year program with a broad emphasis on the marine sciences taught jointly by the Department of Biological Sciences, the School of Geosciences and the Environmental Science Unit. The program consists of core subjects in each of the three years plus a flexible range of optional subjects. In third year there is a choice of three strands: Marine Biology, Marine Geosciences or the joint Marine Biology and Marine Geosciences. Subjects from across the range of relevant disciplines have been included together with two specially-designed marine studies subjects. The Coordinator is Associate Professor David Ayre.

The approval of the Dean or Sub-Dean is required for entry to the program.

**100 - Level**

- GEOS102 Earth Environments and Resources 6
- GEOS112 Physical Environments 6
- BIOL103 Molecules, Cells and Organisms 6
- BIOL104 Evolution, Biodiversity and Environment 6

Either

- CHEM101 Chemistry 1A 6
  or
- CHEM104 Chemistry 1D 6

Either

- CHEM102 Chemistry 1B 6
  or
- CHEM105 Chemistry 1E 6
- MATH151 General Mathematics (if required) 6

Options: Plus one or two of the following subjects

- CSC1101 Introduction to Information Technology A 6
- CSC1102 Introduction to Information Technology B 6
- CSC1111 Computer Science 1A 6
- CSC1121 Computer Science 1B 6
- GEOS111 Planet Earth 6
- GEOS142 The Human Environment: Problems and Change 6
- PHYS233 Introduction to Environmental Physics 6
- STAT131 Statistics: Modelling Variation and Uncertainty 6
- STS112 The Scientific Revolution: History, Philosophy and Politics of Science 6
- STS116 Environment in Crisis 6
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH111</td>
<td>Applied Mathematical Modelling</td>
<td>6</td>
</tr>
<tr>
<td>MGMT110</td>
<td>Introduction to Management</td>
<td>6</td>
</tr>
<tr>
<td><strong>200-Level</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL241</td>
<td>Biodiversity: Classification and Sampling</td>
<td>6</td>
</tr>
<tr>
<td>BIOL251</td>
<td>Principles of Ecology and Evolution</td>
<td>6</td>
</tr>
<tr>
<td>GEOS239</td>
<td>Remote Sensing of the Environment</td>
<td>6</td>
</tr>
<tr>
<td>STAT252</td>
<td>Statistics for the National Sciences</td>
<td>6</td>
</tr>
<tr>
<td>MARE200</td>
<td>Introduction to Oceanography</td>
<td>6</td>
</tr>
<tr>
<td>MARE218</td>
<td>Marine Sediments and Fossils*</td>
<td>6</td>
</tr>
</tbody>
</table>

*Students wishing to pursue cell and molecular biology subjects at 300-level (BIOL303 and BIOL320) should choose BIOL213 in Session 1 and BIOL215 in place of MARE218.

Options: Plus four of the following subjects to form a program approved by the Co-ordinator

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS205</td>
<td>Field Geology I</td>
<td>6</td>
</tr>
<tr>
<td>GEOS220</td>
<td>Climate and Natural Hazards</td>
<td>6</td>
</tr>
<tr>
<td>GEOS222</td>
<td>Biogeography</td>
<td>6</td>
</tr>
<tr>
<td>BIOL240</td>
<td>Functional Biology of Plants and Animals</td>
<td>6</td>
</tr>
<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>BIOL215</td>
<td>Introductory Genetics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS233</td>
<td>Introduction to Environmental Physics</td>
<td>6</td>
</tr>
</tbody>
</table>

**300-level**

**Marine Biology and Marine Geosciences Strand**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARE300</td>
<td>Fisheries and Aquaculture</td>
<td>8</td>
</tr>
<tr>
<td>BIOL351</td>
<td>Conservation Biology: Marine and Terrestrial Populations</td>
<td>8</td>
</tr>
<tr>
<td>BIOL355</td>
<td>Marine and Terrestrial Ecology</td>
<td>8</td>
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</tbody>
</table>

Plus three of the following subjects

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS331</td>
<td>Environmental Management and Decision-Making</td>
<td>8</td>
</tr>
<tr>
<td>GEOS339</td>
<td>Geographical Information Systems</td>
<td>8</td>
</tr>
<tr>
<td>MARE322</td>
<td>Global Environmental Change</td>
<td>8</td>
</tr>
<tr>
<td>MARE323</td>
<td>Coastal Environments: Process and Management</td>
<td>8</td>
</tr>
<tr>
<td>MARE393</td>
<td>Advanced Marine Science Project</td>
<td>8</td>
</tr>
</tbody>
</table>

**Marine Biology Strand**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARE300</td>
<td>Fisheries and Aquaculture</td>
<td>8</td>
</tr>
<tr>
<td>BIOL351</td>
<td>Conservation Biology: Marine and Terrestrial Populations</td>
<td>8</td>
</tr>
<tr>
<td>BIOL355</td>
<td>Marine and Terrestrial Ecology</td>
<td>8</td>
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</tbody>
</table>

Plus an approved combination of 24 credit points from the following subjects

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL303</td>
<td>Biotechnology: Applied Cell and Molecular Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL320</td>
<td>Cell and Molecular Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL332</td>
<td>Ecological and Evolutionary Physiology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL357</td>
<td>Field Techniques in Ecology</td>
<td>8</td>
</tr>
<tr>
<td>MARE393</td>
<td>Advanced Marine Science Project</td>
<td>8</td>
</tr>
<tr>
<td>STAT355</td>
<td>Sample Surveys and Experimental Design (with project)</td>
<td>8</td>
</tr>
</tbody>
</table>

or other subjects which include up to 18 credit points approved by the Coordinator.

**Marine Geosciences Strand**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS331</td>
<td>Environmental Management and Decision-Making</td>
<td>8</td>
</tr>
<tr>
<td>GEOS339</td>
<td>Geographical Information Systems</td>
<td>8</td>
</tr>
<tr>
<td>MARE322</td>
<td>Global Environmental Change</td>
<td>8</td>
</tr>
<tr>
<td>MARE323</td>
<td>Coastal Environments: Process and Management</td>
<td>8</td>
</tr>
</tbody>
</table>

Plus an approved combination of at least 16 credit points from the following subjects

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS302</td>
<td>Basin Resources</td>
<td>8</td>
</tr>
<tr>
<td>GEOS305</td>
<td>Field Geology II</td>
<td>8</td>
</tr>
<tr>
<td>GEOS315</td>
<td>Field Studies in Physical Geography</td>
<td>8</td>
</tr>
<tr>
<td>GEOS321</td>
<td>Fluvial Geomorphology, Sedimentology and River Management</td>
<td>8</td>
</tr>
<tr>
<td>GEOS381</td>
<td>Directed Studies in Geosciences A</td>
<td>8</td>
</tr>
<tr>
<td>MARE300</td>
<td>Fisheries and Aquaculture</td>
<td>8</td>
</tr>
<tr>
<td>MARE393</td>
<td>Advanced Marine Science Project</td>
<td>8</td>
</tr>
</tbody>
</table>

or other subjects which may include up to 18 credit points approved by the Coordinator.
Course Structures

Honours: After the completion of the three-year program, Marine Studies students may proceed to an Honours year within either the Department of Biological Sciences or the School of Geosciences or jointly in both disciplines.

Bachelor of Medicinal Chemistry

Medicinal Chemistry is a specialist four-year degree which provides students with an excellent training in modern techniques of chemical science applied to medicine. This includes specialised courses in drug discovery and design, using both rational, computer-aided and bioprospecting approaches. It also gives students the training physiology, pharmacology and other areas needed to understand the effects of disease states on the human body and the role of drugs and other ways of chemical intervention. Recent graduates of the degree have readily found excellent employment opportunities in the pharmaceutical and biomedical sectors.

The BMedChem program is four years full-time with a workload of 48 credit points per year, but it is possible to undertake the course part-time. Honours is awarded on performance at the end of fourth year. Advanced entry into the degree may also be considered.

Students not admitted directly into the program may gain admission via the BSc program subject to satisfactory performance in first year, prerequisite considerations, and approval of the Dean. The Coordinator is Dr Paul Keller.

First Year

Either
CHEM101 Chemistry 1A 6
or
CHEM104 Chemistry 1D 6
Either
CHEM102 Chemistry 1B 6
or
CHEM105 Chemistry 1E 6
BIOL103 Molecules, Cells and Organisms 6
Either
BIOL104 Evolution, Biodiversity and Environment 6
or
BMS103 Human Growth, Nutrition and Exercise 6
BMS101 Systemic Anatomy 6
STAT252 Statistics for the Natural Sciences 6
BMS112 Human Physiology 1: Principles and Systems 6
Either
MATH151 General Mathematics 1A (if required) 6
or
PHYS131 Physics for the Environmental and Life Sciences A 6

Second Year

BIOL213 Principles of Biochemistry 6
BIOL214 The Biochemistry of Energy and Metabolism 6
BIOL215 Introductory Genetics 6
CHEM211 Inorganic Chemistry II 6
CHEM212 Organic Chemistry II 6
CHEM213 Physical Chemistry II 6
CHEM214 Analytical and Environmental Chemistry II 6
BMS202 Human Physiology II: Control Mechanisms 6

Third Year

BIOL320 Molecular Cell Biology 8
CHEM320 Biological Chemistry 8
CHEM321 Organic Synthesis and Reactivity 8
CHEM330 Medicinal Chemistry 8
CHEM350 Principles of Pharmacology 8
CHEM364 Molecular Structure and Spectroscopy 8
Bachelor of Medicinal Chemistry - Advanced

Students with a UAI of at least 90 who wish to undertake the Bachelor of Medicinal Chemistry are eligible for the Bachelor of Medicinal Chemistry - Advanced. For information on this degree refer to the Bachelor of Science - Advanced and consult the Medicinal Chemistry Coordinator, Dr Paul Keller.

Bachelor of Science - Bachelor of Arts

Students must consult both the Faculty of Science and the Faculty of Arts academic advisers about selecting a major from each Faculty.

The double degree consists of a minimum of 216 credit points taken over at least 4 years and shall include:

1. 90 credit points of subjects from the Science Schedule (including a minimum of 60 credit points for a Science major);
2. at least 72 credit points, including a major, for subjects listed in the Arts Course Structures and including at least 36 credit points for subjects offered by member units of the Faculty of Arts;
3. not more than 96 credit points for 100-level subjects;
4. majors from two different disciplines are to be chosen for the Arts and Science degrees.

Note: Students may be given exemptions where similar subjects exist in both majors selected, e.g. Statistics subjects.

The available Faculty of Science majors are:
- Biological Sciences
- Chemistry
- Human Geography
- Physical Geography
- Geology
- Geosciences

The available Faculty of Arts majors are:
- Aboriginal Studies
- Asia Pacific Studies
- Australian Studies
- Communication Studies
- Community and Environment
- English Language Studies
- English Studies
- European Studies
- French
- Gender Studies
- History
- Italian
- Japanese
- Philosophy
- Politics
- Resource and Environmental Studies
- Science, Technology and Society
- Sociology
Course Structures

Bachelor of Science - Bachelor of Commerce

Students must consult both the Faculty of Science and the Faculty of Commerce academic advisers about selecting a major study from each Faculty. The double degree consists of a minimum of 216 credit points taken over at least 4 years and shall include:

1. 90 credit points of subjects from the Science Schedule (including a minimum of 60 credit points for a Science major);
2. subjects from the Commerce Schedule, including core subjects to satisfy the requirements of one of the Commerce majors. Candidates need to be aware that the number of credit points required by each major varies;
3. subjects from the Science, Commerce or General Schedules to ensure that a minimum of 216 credit points have been completed.

Note: Students may be given exemption from a subject when similar subjects exist in both majors selected, eg Statistics.

The available Faculty of Science majors are:

- Biological Sciences
- Chemistry
- Human Geography
- Physical Geography
- Geology
- Geosciences

The available Faculty of Commerce majors are:

- Accountancy
- Economics
- Business Information Systems
- Human Resource Management
- Industrial Relations
- Management
- Marketing
- Finance
- Employment Relations
- International Business

Bachelor of Science - Bachelor of Laws

Refer to the Faculty of Law section for details of this double degree program.

Bachelor of Creative Arts - Bachelor of Science

Refer to the Faculty of Creative Arts section for details of this double degree program.

Bachelor of Engineering (Engineering) - Bachelor of Science

Refer to the Faculty of Engineering section for details of this double degree program.

Bachelor of Engineering (Informatics) - Bachelor of Science

Refer to the Faculty of Informatics section for details of this double degree program.
Science Schedule of Subjects

The following are subjects offered by the Academic Units in the Faculty of Science, as well as subjects from outside of the Faculty, that can be counted towards the 90 credit points of Science subjects required for a Bachelor of Science degree. The required 90 credit points must include a major or minor study in a discipline located in the Faculty of Science. Only 60 credit points of 100-level subjects may be counted towards a degree.

### Biological Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL103</td>
<td>Molecules, Cells and Organisms</td>
<td>6</td>
</tr>
<tr>
<td>BIOL104</td>
<td>Evolution, Biodiversity and Environment</td>
<td>6</td>
</tr>
<tr>
<td>BIOL213</td>
<td>Principles of Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>BIOL214</td>
<td>The Biochemistry of Energy and Metabolism</td>
<td>6</td>
</tr>
<tr>
<td>BIOL215</td>
<td>Introductory Genetics</td>
<td>6</td>
</tr>
<tr>
<td>BIOL240</td>
<td>Functional Biology of Plants and Animals</td>
<td>6</td>
</tr>
<tr>
<td>BIOL241</td>
<td>Biodiversity: Classification and Sampling</td>
<td>6</td>
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<td>BIOL251</td>
<td>Principles of Ecology and Evolution</td>
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<tr>
<td>MARE200</td>
<td>Introduction to Oceanography</td>
<td>6</td>
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<tr>
<td>BIOL292</td>
<td>Special Biology Studies</td>
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<tr>
<td>BIOL303</td>
<td>Biotechnology: Applied Cell and Molecular Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL318</td>
<td>Bioinformatics</td>
<td>8</td>
</tr>
<tr>
<td>BIOL320</td>
<td>Molecular Cell Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL321</td>
<td>Cellular and Molecular Immunology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL332</td>
<td>Ecological and Evolutionary Physiology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL351</td>
<td>Conservation Biology: Marine and Terrestrial Populations</td>
<td>8</td>
</tr>
<tr>
<td>BIOL355</td>
<td>Marine and Terrestrial Ecology</td>
<td>8</td>
</tr>
<tr>
<td>MARE300</td>
<td>Fisheries and Acquaculture</td>
<td>8</td>
</tr>
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<td>BIOL357</td>
<td>Field Methods in Ecology</td>
<td>8</td>
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<tr>
<td>BIOL391</td>
<td>Advanced Biology</td>
<td>8</td>
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<tr>
<td>BIOL392</td>
<td>Advanced Biology Project</td>
<td>8</td>
</tr>
<tr>
<td>MARE393</td>
<td>Advanced Marine Science Project</td>
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</table>

### Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A: Intro. Physical and General Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM102</td>
<td>Chemistry 1B: Intro. Organic and Physical Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM104</td>
<td>Chemistry 1D (Introductory Chemistry)</td>
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</tr>
<tr>
<td>CHEM105</td>
<td>Chemistry 1E (Introductory Chemistry)</td>
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<tr>
<td>CHEM211</td>
<td>Inorganic Chemistry II</td>
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</tr>
<tr>
<td>CHEM212</td>
<td>Organic Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM213</td>
<td>Physical Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM214</td>
<td>Analytical and Environmental Chemistry II</td>
<td>6</td>
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<tr>
<td>CHEM218</td>
<td>Special Chemistry Studies</td>
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<tr>
<td>CHEM311</td>
<td>Inorganic Chemistry III</td>
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<tr>
<td>CHEM314</td>
<td>Instrumental Analysis</td>
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<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
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<tr>
<td>CHEM321</td>
<td>Organic Synthesis and Reactivity</td>
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<tr>
<td>CHEM327</td>
<td>Environmental Chemistry</td>
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<tr>
<td>CHEM330</td>
<td>Medicinal Chemistry</td>
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<tr>
<td>CHEM340</td>
<td>Chemistry Laboratory Project</td>
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<tr>
<td>CHEM350</td>
<td>Principles of Pharmacology</td>
<td>8</td>
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<tr>
<td>CHEM364</td>
<td>Molecular Structure and Spectroscopy</td>
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### Environmental Science

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<thead>
<tr>
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<tbody>
<tr>
<td>ENVI391</td>
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### Geosciences

<table>
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<tbody>
<tr>
<td>GEO102</td>
<td>Earth Environments and Resources</td>
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<tr>
<td>GEO111</td>
<td>Planet Earth</td>
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<tr>
<td>GEO112</td>
<td>Physical Environments</td>
<td>6</td>
</tr>
<tr>
<td>GEO142</td>
<td>The Human Environment: Problems and Change</td>
<td>6</td>
</tr>
<tr>
<td>GEO205</td>
<td>Field Geology I</td>
<td>6</td>
</tr>
<tr>
<td>GEO214</td>
<td>Soils, Landscape and Hydrology</td>
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Course Structures

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GEOS217</td>
<td>Field Techniques in Earth Sciences</td>
<td>6</td>
</tr>
<tr>
<td>MARE218</td>
<td>Marine Sediments and Fossils</td>
<td>6</td>
</tr>
<tr>
<td>GEOS219</td>
<td>The Earth in Crisis</td>
<td>6</td>
</tr>
<tr>
<td>GEOS220</td>
<td>Climate and Natural Hazards</td>
<td>6</td>
</tr>
<tr>
<td>GEOS222</td>
<td>Biogeography</td>
<td>6</td>
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<tr>
<td>MARE200</td>
<td>Introduction to Oceanography</td>
<td>6</td>
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<tr>
<td>GEOS231</td>
<td>Environmental Impact of Societies</td>
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<td>GEOS234</td>
<td>Environmental Prehistory of Australia</td>
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<tr>
<td>GEOS239</td>
<td>Remote Sensing of the Environment</td>
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<tr>
<td>GEOS242</td>
<td>Living in Cities</td>
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</tr>
<tr>
<td>GEOS243</td>
<td>Rural Australia: Economy, Community and Environment</td>
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<tr>
<td>GEOS246</td>
<td>A Hungry World: Food Resources and the World Economy</td>
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<tr>
<td>GEOS292</td>
<td>Special Geosciences Studies</td>
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<tr>
<td>GEOS305</td>
<td>Field Geology II</td>
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<tr>
<td>GEOS302</td>
<td>Basin Resources</td>
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<tr>
<td>GEOS304</td>
<td>Dynamic Earth</td>
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<td>GEOS307</td>
<td>Mineral Resources</td>
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<tr>
<td>GEOS315</td>
<td>Field Studies in Physical Geography</td>
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<tr>
<td>GEOS321</td>
<td>Fluvial Geomorphology, Sedimentology and River Management</td>
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<tr>
<td>MARE322</td>
<td>Global Environmental Change</td>
<td>8</td>
</tr>
<tr>
<td>MARE323</td>
<td>Coastal Environments: Process and Management</td>
<td>8</td>
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<tr>
<td>GEOS331</td>
<td>Environmental Management and Decision-Making</td>
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<td>GEOS334</td>
<td>Environmental Prehistory of Australia</td>
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<tr>
<td>GEOS339</td>
<td>Geographic Information Systems</td>
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<tr>
<td>GEOS347</td>
<td>Northern Neighbours: Economic and Social Change in the Asia-Pacific Rim</td>
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<tr>
<td>GEOS348</td>
<td>Cultural Landscapes</td>
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<tr>
<td>GEOS349</td>
<td>Population, Health and Environment</td>
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<tr>
<td>GEOS381</td>
<td>Directed Studies in Geosciences A</td>
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<tr>
<td>GEOS382</td>
<td>Directed Studies in Geosciences B</td>
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<tr>
<td>MARE393</td>
<td>Advanced Marine Science Project</td>
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Marine Studies

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<tr>
<th>Subject Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MARE200</td>
<td>Introduction to Oceanography</td>
<td>6</td>
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<tr>
<td>MARE218</td>
<td>Marine Sediments and Fossils</td>
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<tr>
<td>MARE300</td>
<td>Fisheries and Aquaculture</td>
<td>8</td>
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<tr>
<td>MARE322</td>
<td>Global Environmental Change</td>
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<tr>
<td>MARE323</td>
<td>Coastal Environments: Process and Management</td>
<td>8</td>
</tr>
<tr>
<td>MARE393</td>
<td>Advanced Marine Science Project</td>
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</table>

Subjects offered by Academic Units external to the Faculty of Science:

Biomedical Science

<table>
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<tr>
<th>Subject Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BMS101</td>
<td>Systemic Anatomy</td>
<td>6</td>
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<tr>
<td>BMS112</td>
<td>Human Physiology 1</td>
<td>6</td>
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<tr>
<td>BMS202</td>
<td>Human Physiology II: Control Mechanisms</td>
<td>6</td>
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<tr>
<td>BMS311</td>
<td>Nutrients and Metabolism</td>
<td>8</td>
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<tr>
<td>BMS312</td>
<td>Research in Human Nutrition</td>
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Information Technology and Computer Science

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<th>Course Title</th>
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<tr>
<td>CSCI111</td>
<td>Computer Science 1A</td>
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<tr>
<td>CSCI121</td>
<td>Computer Science 1B</td>
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Mathematics and Applied Statistics

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<tr>
<td>MATH141</td>
<td>Mathematics 1C Part 1</td>
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<tr>
<td>MATH142</td>
<td>Mathematics 1C Part 2</td>
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<td>MATH161</td>
<td>Mathematics 1E Part 1</td>
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<td>MATH162</td>
<td>Mathematics 1E Part 2</td>
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<td>MATH187</td>
<td>Mathematics 1A Part 1</td>
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<td>MATH188</td>
<td>Mathematics 1B Part 2</td>
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<td>MATH151</td>
<td>General Mathematics IA</td>
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<td>MATH201</td>
<td>Multivariate and Vector Calculus</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>MATH202</td>
<td>Differential Equations II</td>
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<td>MATH283</td>
<td>Mathematics IIB for Engineers</td>
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<td>STAT252</td>
<td>Statistics for the Natural Sciences</td>
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<td>PHYS111</td>
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<td>PHYS121</td>
<td>Electricity</td>
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<td>PHYS122</td>
<td>Waves and Optics</td>
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<td>Modern Physics</td>
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<tr>
<td>PHYS131</td>
<td>Physics for the Environmental and Life Sciences A</td>
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<td>PHYS132</td>
<td>Physics for the Environmental and Life Sciences B</td>
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<td>PHYS141</td>
<td>Fundamentals of Physics A</td>
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<td>Fundamentals of Physics B</td>
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<tr>
<td>PHYS205</td>
<td>Modern Physics</td>
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<tr>
<td>PHYS206</td>
<td>Project in Physics</td>
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<tr>
<td>PHYS215</td>
<td>Vibrations, Waves and Optics</td>
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<td>PHYS225</td>
<td>Electromagnetism and Optoelectronics</td>
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<tr>
<td>PHYS230</td>
<td>Intermediate Physics</td>
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<tr>
<td>PHYS233</td>
<td>Introduction to Environmental Physics</td>
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<tr>
<td>PHYS235</td>
<td>Mechanics and Thermodynamics</td>
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<tr>
<td>PHYS255</td>
<td>Radiation Physics</td>
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<tr>
<td>PHYS295</td>
<td>Concepts of the Modern Universe</td>
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<tr>
<td>PHYS305</td>
<td>Quantum Mechanics</td>
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<tr>
<td>PHYS306</td>
<td>Intermediate Project in Physics</td>
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<tr>
<td>PHYS325</td>
<td>Electromagnetism and Plasma Physics</td>
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<tr>
<td>PHYS335</td>
<td>Classical Mechanics</td>
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<tr>
<td>PHYS345</td>
<td>Medical Physics</td>
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<tr>
<td>PHYS355</td>
<td>Radiation Therapy Physics</td>
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<tr>
<td>PHYS365</td>
<td>Detection of Radiation: Neutrons, Electrons and X Rays</td>
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<tr>
<td>PHYS375</td>
<td>Nuclear and Solid State Physics</td>
<td>8</td>
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<tr>
<td>PHYS385</td>
<td>Statistical Mechanics</td>
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<tr>
<td>PHYS390</td>
<td>Astro and Nuclear Physics</td>
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<td>PHYS395</td>
<td>Nuclear and Solid State Physics</td>
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<tr>
<td>PHYS396</td>
<td>Electronic Materials</td>
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Subject Descriptions

BIOL103 Molecules, Cells and Organisms 6cp
Spring Wollongong On Campus
Contact Hours: 2hrs L, 1hr T, 3hr P.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Continuous Practical assessment; Practical quizzes; Assignment; Mid session Quiz; final practical examination; final theory examination.
Subject Objectives: Students should be able to describe the processes of science that uncover the mechanisms and principles of living systems; define the different levels of organization of living systems; identify the unity and diversity that exist at each level of organization; describe some of the basic interactions between, as well as aspects of, the regulation and integration of living systems; describe the characteristics of the most important classes of biological molecules and the major features of the structure and function of cells and subcellular organelles; and to be able to analyse results and present data clearly and concisely in a written report.

BIOL104 Evolution, Biodiversity and Environment 6cp
Autumn Wollongong On Campus
Contact Hours: 2hrs L,3hrs P, 1hr T.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Practical mini-quizzes; Insect collection; Project report - predation; Project report - seeds; Post-lecture mini-quizzes; Practical examination; Theory examination.
Subject Objectives: To have a clear perception of the diversity of organisms present in nature; to recognise the anatomical and life-history characteristics of the major groups of organisms; to understand the operation of the evolutionary processes which have combined to produce the diversity; to understand the principles of intrinsic population growth and how it provides the potential for natural selection; to understand the way in which populations of different organisms combine to form communities, and be aware of the nature of the interactions which occur among organisms in a community; to understand the interactions between the physical and biotic components of ecosystems, and understand the importance of nutrient cycling and energy flow in ecosystem function; to be able to design an experiment, take replicate samples, analyse results and present a concise, accurate report; and to be aware of some of the social and ethical implications of research in biology.

BIOL213 Principles of Biochemistry 6cp
Spring Wollongong On Campus
Contact Hours: 2 hrs L, 4 hrs T/prac.
Pre-requisites: BIOL 103 and (CHEM 101) or (CHEM 104) and (CHEM 102) or (CHEM 105)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Practical reports; Dry practicals; Formal scientific reports; Theory Quiz; Practical exam; Theory exam.
Subject Objectives: To describe the major classes of macromolecules and their subunits; to describe the basic principles of enzyme function, energy metabolism, and gene structure and function; to perform the calculations necessary to relate to physical amounts and concentrations of biochemicals; to interpret biochemical data and reach valid scientific conclusions; and to attain satisfactory experimental laboratory skills.

BIOL214 The Biochemistry of Energy and Metabolism 6cp
Spring Wollongong On Campus
Contact Hours: 2hrs L,3hrs P, 1hr T.
Pre-requisites: BIOL213
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Practical assessment; Scientific report; Quiz; Practical exam; Theory exam.
Subject Description: The generation and storage of metabolic energy. The major catabolic pathways. The biosynthesis of carbohydrates, lipids, proteins and nucleotides. The regulation of enzymes and of metabolic pathways and their role in cellular function. The integration of metabolism. Metabolic disorders.
Subject Objectives: To identify the major biochemical processes; to compare anabolic and catabolic metabolic pathways; to understand the principles involved in the control of metabolism; to relate knowledge of the structure and function of molecules; to perform basic laboratory procedures used in the study of metabolism; to use knowledge of metabolism and of biochemical methods to design experimental approaches to simple problems in metabolic biochemistry; to appreciate the historical process which led to this body of knowledge; and to relate metabolic processes to the functioning of whole organisms.

BIOL215 Introductory Genetics 6cp
Spring Wollongong On Campus
Contact Hours: 3 hrs L,3 hrs Prac.
Pre-requisites: BIOL213
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 4 Practical reports; Practical assessment; Seminar; Theory exam.
Subject Description: Genetic variation in eukaryotic populations. Source of variation and techniques of measurement. Regulation of gene activity. Microbial genetics including transformation, conjugation and phage replication. Mechanisms for the rearrangement and exchange of genetic material including plasmids, recombination, transposons and genetic engineering.

Subject Objectives: To have an understanding of basic skills involved in microbial culturing, selection of mutations, plasmid transfer and chromosome mapping of bacteria; simple applications of molecular biology; the role of DNA, RNA and protein; the molecular basis of genetic variation; the mechanisms of genetic regulation; mechanisms of inheritance in a range of organisms and the design of simple breeding experiments and selection trials; simple models of the processes which determine the genetic composition of populations; and the basic algebraic and statistical skills needed to analyse genetic data.

BIOL240 Functional Biology of Plants & Animals 6cp
Autumn Wollongong On Campus
Contact Hours: 3hrs L &/or T, 3hrs P.
Pre-requisites: BIOL103 and BIOL104
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Quiz; 2 Practical exams; 2 Written Assignments; Theory exam.

Subject Description: Functional morphology of plants and animals. Plant/environmental interactions. Physiological and behavioural responses of plants to various environments. Reproductive biology and life history patterns of plants and animals.

Subject Objectives: The objectives of this course are to study the form and function of living things with a comparative approach that recognizes their evolutionary origins and how this affects the way they overcome challenges to their day-to-day existence.

BIOL241 Biodiversity: Classification and Sampling 6cp
Spring Wollongong On Campus
Contact Hours: 3 hrs L, 3 hrs Prac.
Pre-requisites: BIOL103 and BIOL104
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: McClade report; Herbarium collection; Biodiversity paper; Theory exam; Practical exam.

Subject Description: Introduction to biological diversity; Identifying biodiversity; The species concept; Principles of classification (numerical and biochemical tools); Pitfalls in classification (coevolution, physical and evolutionary constraints); Use of keys; Making and curating a collection of selected groups of organisms; Environmental surveys; quantification and importance of biological diversity; Loss of biodiversity.

Subject Objectives: To provide students with an understanding of biological diversity, taxonomic principles and a working knowledge of taxonomic methods. The latter include the collection and identification of biological materials for study as well as data collection, analysis and interpretation.

BIOL251 Principles of Ecology and Evolution 6cp
Autumn Wollongong On Campus
Contact Hours: 3 hrs L, 3 hrs P.
Pre-requisites: BIOL103 and BIOL104
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Scientific writing; Competition experiment; Project progress; Seminar; Report; Practical examination; Theory examination.

Subject Description: Definitions of a population. Sampling and estimating density; Population growth and regulation; Interactions between organisms and community structure and function. Variation among organisms and genetic and environmental inheritance. Genetic structure of populations; population size, breeding systems and selection, social evolution and evolution of life histories. Implications for human populations. Human ecology and ecological surveys.

Subject Objectives: To develop an understanding of the basic principles of general ecology, including evolutionary theory, and to develop specific skills relevant to progression to advanced ecology and evolutionary biology.

BIOL292 Special Biology Studies 6cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 5hrs lab/field 1hr T.
Pre-requisites: 48 cp; enrolment in BSc(Hons) - Adv Program
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Literature review presentation (oral or poster) 10%; project reports 50%; project seminars 10%; final examination 30%.

Subject Description: Students will undertake research projects, under the supervision of academic staff members, on design and execution of field and/or laboratory experiments and the analysis and interpretation of these data. Intending students must consult with the Head of Department prior to enrolment.

Subject Objectives: To design and execute appropriate field and/or laboratory experiments and analyse and interpret these data. Students will also develop skills in the acquisition of information and its presentation in verbal and written reports.

MARE200 Introduction to Oceanography 6cp
Autumn Wollongong On Campus
Contact Hours: 5-7 hrs per week.
Pre-requisites: GEOS102, GEOS112, BIOL103, BIOL104, CHEM101/104, CHEM102/105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: essay/literature reviews 20%, practical tests/reports 20%, tutorial reports/seminars 10%, written examination 50%.

Subject Description: This subject forms a basic introduction to oceanography. Topics covered include physical attributes of oceans; circulation and currents; tides and waves; marine organisms and biodiversity; environmental controls on organisms; processes of transport and behaviour of organisms in their life cycles; food webs and nutrient cycling; chemistry of seawater; sources and sinks of chemicals; carbon and
Subject Descriptions

carbonate cycles, chemical reactions in seawater, chemical exchange with sediments, stable isotopes and climate change.

Subject Objectives: information unavailable

BIOL303 Biotechnology: Applied Cell & Molecular Biology 8cp
Autumn Wollongong On Campus
Contact Hours: 2 hrs L, 4 hrs T/Prac.
Pre-requisites: BIOL215
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Practical project report; Oral presentation of tutorial topic; Research project report; Theory exam.

Subject Description: Recombinant DNA technology and genetic engineering of micro-organisms, plant cells and animal cells. Expression, production and purification of recombinant proteins, cytokines and hormones. Fermentation technology and industrial scale-up. Applications of Biotechnology to the fields of human therapeutics, agriculture and diagnostics. Bioinformatics, ethical and patent issues of Biotechnology.

Subject Objectives: To achieve an understanding of genetic engineering; an understanding of the application and processes of biotechnology; and competence in basic molecular biological techniques.

BIOL318 Bioinformatics 8cp
Spring Wollongong On Campus
Contact Hours: 2 hrs L, 4 hrs T/Prac.
Pre-requisites: BIOL215
Co-requisites: none
Restrictions: none
Exclusions: CHEM320
Assessment: Practical reports; tutorial seminars, theory exam.

Subject Description: Bioinformatics will be explored in computer-based tutorials and practicals. Databases for nucleic acid and protein sequences, structures and other parameters of biological molecules, plus linkages to the scientific literature, will be used to extract information, compare and analyse biological data. In the laboratory, probes will be produced based on DNA and antibodies for the diagnosis of diseases of humans, plants and animals. These probes will be used to detect specific microorganisms in tissue and environmental samples.

Subject Objectives: To achieve: 1. an understanding of the significance and scope of bioinformatics in biotechnology, pharmaceuticals, medicine and agriculture. 2. competence in accessing and utilising biological databases with a range of computer-based applications. 3. practical experience in the application of some biotechnology techniques for diagnosis. 4. an understanding of the role of molecular techniques in medicine, agriculture and other fields.

BIOL320 Molecular Cell Biology 8cp
Autumn Wollongong On Campus
Contact Hours: 2 hrs L, 4 hrs T/Prac.
Pre-requisites: BIOL 214 and BIOL 215
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Poster; 2 Practical Reports; Theory exam; Practical exam.

Subject Description: Biochemistry of major macromolecular components in eukaryotic cells including synthesis and regulation; assembly of molecular components into functional units in the cell; major cell functions - homeostasis, movement, energetics and recognition. Specific topics covered include proteins and nucleic acids, membranes, cytoskeleton, extracellular matrix, energetics. Practical work covers plant and animal cell culture and separation techniques - amino acid analysis, electrophoresis, flow cytometry, centrifugation and chromatography.

Subject Objectives: To achieve a sound knowledge and understanding of the key aspects of cell structure and function and mechanisms used by cells to regulate their activities.

BIOL321 Cellular and Molecular Immunology 8cp
Spring Wollongong On Campus
Contact Hours: 2 hrs L, 4 hrs T/Prac.
Pre-requisites: BIOL320
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Antibody Purification/Conjugation Project; Antibody Production/ELISA Project; Written assignments; Oral presentation of tutorial topic; Practical exam; Theory exam.


Subject Objectives: Students will be able to understand and discuss many of the theoretical principles underlying modern cellular and molecular immunology; perform a variety of immunological techniques, including immunization of animals and purification and conjugation of antibodies; and demonstrate a respect for animals, and an understanding of the importance of appropriate controls when designing experiments using immunological techniques.

BIOL332 Ecological and Evolutionary Physiology 8cp
Autumn Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: BIOL240
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Project reports; Quiz; Theory exam.

Subject Description: Physiology and biochemistry of whole organisms with emphasis on response to environmental parameters and the development of physiological systems. Effect of body size on physiology. Water and salt regulation in aquatic, marine and terrestrial environments. Physiological responses of plants and animals to temperature, gas composition, light intensity, and pressure. Evolution of endothermy. Effects of hormones on physiology and behaviour.

Subject Objectives: To understand the physiological and biochemical responses of animals and plants to environmental variation; to identify how marine, aquatic, and terrestrial environments select for different biochemical and physiological adaptations in animals and plants; to explain aspects of the evolution of biochemical and physiological processes in organisms; to understand the influence of size and phylogeny in animal energetics; to design and complete an experiment to answer a specific physiological question; to analyse physiological data in an appropriate manner and present these effectively in both written and lecture formats; to appreciate the
use of computers as analog to digital interfaces and understand fundamental procedures in writing data-gathering routines; and to show concern for accuracy, precision, honesty, and for the organisms under study.

**BIOL351 Conservation Biology: Marine and Terrestrial Populations 8cp**

**Contact Hours:** 2 hrs L, 4 hrs T/Prac.

**Pre-requisites:** BIOL 241, BIOL 251, STAT 252

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Spotlighting arboREAL mammals; Practical workbook write-ups; teamwork contribution; Theory examination


**Subject Objectives:** To develop an understanding of the concepts and techniques of population ecology and genetics which underpin the discipline of conservation biology.

**BIOL352 Biology For Environmental Engineers 6cp**

**Contact Hours:** 2hrs L, 3hrs P, 1hr T.

**Pre-requisites:** none

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Same as BIOL 104.

**Subject Description:** See BIOL 104. This subject includes a set of tutorials specifically designed for Environmental Engineers.

**Subject Objectives:** See BIOL 104.

**BIOL355 Marine and Terrestrial Ecology 8cp**

**Contact Hours:** 2 hrs L, 4 hrs T/Prac.

**Pre-requisites:** BIOL 241, BIOL 251, STAT 252

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Project report, field camp report and seminar 60%; final examination 40%.

**Subject Description:** Introduction to ecology - levels of organisation (individual, population, community, eco-system). Experiments in ecology - their design, analysis and interpretation. Biotic interactions: competition, herbivory, predation, mutualisms. Disturbance, catastrophe and community structure and function. Behavioural ecology: innate vs learned behaviours and their effects on individual fitness, demography and community structure. Applied ecology: rehabilitation and management.

**Subject Objectives:** Students should achieve familiarity with a range of ecosystems, marine and terrestrial; the ability to use a range of techniques to describe communities; knowledge of the range of biotic and abiotic factors that determine community structure; understanding of the nature of biotic interactions occurring within ecological communities; knowledge of the impacts of biotic interactions and disturbance on community structure and function; understanding of behavioural ecology, the effects of innate and learned behaviours on the fitness of individuals; expertise in the design, analysis interpretation of ecological experiments, especially in the field; competence in the preparation of scientific reports, including literature review and presentation of data; and the ability to communicate results and ideas in verbal presentations.

**BIOL356 Marine and Terrestrial Ecology (Environmental Science) 8cp**

**Contact Hours:** 2 hrs L, 4 hrs T/Prac.

**Pre-requisites:** BIOL 251, STAT 252

**Co-requisites:** none

**Restrictions:** none

**Exclusions:** none

**Assessment:** Major project report and seminar, environmental report 60%; final examination 40%.

**Subject Description:** Lecture content as for BIOL355. Tutorial and practical components of this subject provide professional experience for Bachelor of Environmental Science students. A substantial amount of the practical work will be environmental science projects conducted in the Illawarra region.

**Subject Objectives:** As for BIOL 355, but including achieving competence in the preparation of consultancy reports and the framing of management recommendations.

**BIOL357 Field Methods in Ecology 8cp**

**Contact Hours:** Information unavailable.

**Pre-requisites:** BIOL251 or equivalent

**Co-requisites:**

**Restrictions:** Do NOT enrol in this subject without first completing an application (obtainable from Dept. office), attaching a transcript of studies completed, and returning to Dept. office.

**Exclusions:** none

**Assessment:** Seminar, Project Report, Final examination

**Subject Description:** Techniques for estimating abundances of organisms - census, capture/recapture, indirect estimates. Shortcomings of various techniques. Radio telemetry of large vertebrates. Calculation of home range. Techniques for ecological survey and experiment in the field.

**Subject Objectives:** Students should achieve an understanding of the need to sample organisms, and the limits to accurate estimation of population parameters from a sample; understand various sampling designs to avoid bias and to maximise representatives of the sample; have the ability to apply these principles of sampling to field surveys for several types of organisms; have the ability to apply these principles of sampling to field surveys for several types of organisms; have the ability to estimate population sizes using capture-recapture techniques; familiarity with the basics of capturing and handling a range of animals; have the ability to design and carry out ecological survey and/or experiment, focussing on a particular organism or group of organisms; have the ability to communicate clearly and concisely both in a written report and in verbal presentations; and have the ability to solve the difficulties of working as part of a small team in the field and to prepare high-quality, team reports.
BIOL391 Advanced Biology 16cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Annual Wollongong On Campus

Contact Hours: 12 hrs P; seminars.

Pre-requisites: Four 200-level (distinction and above)
Co-requisites: Two 300-level

Restrictions: none

Assessment: Students will conduct 2 research projects; write 2 project reports; give 2 project seminars; write 1 general essay; and sit a written examination.

Subject Description: Two research projects are to be undertaken with different supervisors, designed and chosen in consultation with these academic staff members. Emphasis may be placed on developing competence in a range of laboratory and field techniques not already familiar to the student. Selection for Advanced Biology is based on merit, and intending students should consult the Coordinator before enrolment.

Subject Objectives: The aim of this subject is to provide students with an introduction to scientific research in two disciplines in Biological Sciences.

BIOL392 Advanced Biology 8cp
Spring Wollongong On Campus
Autumn Wollongong On Campus

Contact Hours: 6 hrs P; seminars.

Pre-requisites: Four 200-level (distinction and above)
Co-requisites: Two 300-level

Restrictions: none

Assessment: Students will conduct 1 research project; write 1 project report; give 1 project seminar; write 1 general essay; and sit a written examination.

Subject Description: One research project is to be undertaken, designed and chosen in consultation with an academic staff member. Emphasis may be placed on developing competence in a range of laboratory and field techniques not already familiar to the student. Selection for Advanced Biology is based on merit, and intending students should consult the Coordinator before enrolment.

Subject Objectives: The aim of this subject is to provide students with an introduction to scientific research in a discipline in Biological Sciences.

MARE300 Fisheries & Aquaculture 8cp
Spring Wollongong On Campus

Contact Hours: 6.

Pre-requisites: MARE200, STAT252 and (BIOL351) or (BIOL355)
Co-requisites: Nil

Restrictions: none

Exclusions: none

Assessment: Examination (60%); Literature review (20%); Project Report & Lab reports (20%)

Subject Description: This subject will provide an overview of fisheries biology and aquaculture (vertebrate and invertebrate) including: the diversity of Australian and international fisheries and their key challenges; relevant ecological issues (population dynamics, transport processes, stock identification); predictive modelling, fisheries management; secondary impacts of fisheries; the diversity of aquaculture; case studies in aquaculture; ecological impacts, potential for enhancement of fisheries.

Subject Objectives: Knowledge of the diversity of fisheries and aquaculture in Australia and overseas. Have understanding of the factors (physical and biotic) regulating fisheries populations and fisheries and aquaculture. Knowledge of the basis of fisheries management and ability to construct simple predictive models. Have understanding of the potential roles of biological research in aquaculture (diseases, nutrition, parasitology, etc). Knowledge of the diversity and research needs of local fisheries and aquaculture. Knowledge of fish harvesting techniques and selected research methods. Students are expected to be able to conduct ecological surveys of fisheries habitat, identify fish species, maintain cultures of larvae and conduct effective library research.

MARE393 Advanced Marine Science Project 8cp
Spring Wollongong On Campus
Summer 2002/2003 Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: Distinction average in relevant 2nd year Marine Science subjects

Co-requisites: information unavailable

Restrictions: Students are assumed to be adequately prepared to undertake a research project in Marine Science. Evidence of 'fitness' is required if work involves snorkelling, SCUBA, use of boats or inter-tidal work. Available only to students enrolled in Bachelor of Marine Science.

Exclusions: none

Assessment: Literature review 25%; project report 55%; tutorial report/presentation 10%; seminar 10%.

Subject Description: One research project will be undertaken after consultation with academic staff. Students will attend and participate in a seminar/tutorial program in either the Department of Biological Sciences or the School of Geosciences. Research may be a discrete component of a larger project in which the emphasis will be on solving a larger problem as part of a research team. Projects will focus on developing competence in a laboratory and/or field techniques. Intending students should consult the Coordinator before enrolment.

Subject Objectives: Students will develop research skills (including teamwork, experimental design, data analysis and interpretation and presentation of results) in at least one aspect of marine science; they will also increase their breadth of knowledge of marine science through their research, reading and seminars/tutorials.

BIOL401 Biology Honours 48cp
Annual Wollongong On Campus
Autumn Wollongong On Campus

Contact Hours: information unavailable

Pre-requisites: Passing a major sequence in Biology at 300-level at a standard approved by the Head of the Department

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Essay, literature review, scientific paper, poster, seminar, thesis.

Subject Description: Students wishing to proceed to honours should consult the Honours Co-ordinator as soon as possible during their third year.

Subject Objectives: information unavailable
BIOL402 Biology Joint Honours 24cp
Annual Wollongong On Campus
Contact Hours: Information unavailable
Pre-requisites: Passing a major sequence in Biology at 300-level at a standard approved by the Head of the Department
Co-requisites: Enrolment in a 24 credit point Honours subject offered by another Academic Unit.
Restrictions: none
Exclusions: none
Assessment: Information unavailable
Subject Description: Students wishing to proceed to joint honours should consult the Honours Co-ordinator as soon as possible during their third year.
Subject Objectives: Information unavailable

BIOL420 Cell, Protein and Antibody Technology 12cp
Autumn Wollongong On Campus
Contact Hours: 5hrs L, Research Proj.
Pre-requisites: Completion of the third year of the Bachelor of Biotechnology
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Mini-project 65%; theory exam 25%; tutorial seminar 10%.
Subject Objectives: Student should be able to understand the contribution by the technologies of cell culture, protein and monoclonal antibodies to present and impending developments in fundamental research, agriculture, medicine and industry; to comprehend (at an advanced level) the structure-function relationships of proteins and the principles for their isolation, purification and characterisation; to appreciate antibody structure and function (at an advanced level) and understand the current application of these molecules in the field of biotechnology; to foster and promote the development of critical scientific and socially responsible attitudes to ethical issues arising from the implementation of biotechnology.

BIOL421 Nucleic Acid Technology 12cp
Autumn Wollongong On Campus
Contact Hours: 5hrs L; Research Proj.
Pre-requisites: Completion of the third year of the Bachelor of Biotechnology
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Mini-project 65%; theory exam 25%; tutorial seminar 10%.
Subject Objectives: Students should possess an understanding of the roles which nucleic acid technology plays (or will play) in biology, biochemistry and biotechnology as research, diagnostic, clinical and therapeutic tools; appreciate, comprehend and perform (BIOL 421 only) the principles and methods involved in recombinant DNA technology; and have critical scientific and ethical attitudes to technological developments which use/have used biotechnology.

BIOL422 Biotechnology Project 24cp
Spring Wollongong On Campus
Contact Hours: Varied-Research Proj.
Pre-requisites: BIOL420 and BIOL421
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Research poster 10%; final thesis 80%; final research seminar 10%.
Subject Description: Under the supervision of staff from the Department of Biological Sciences, the student will undertake a research project in the field of biotechnology and present a written report, poster and seminar on the chosen topic.
Subject Objectives: To complete the final components of the Bachelor of Biotechnology (Honours) degree.

BIOL423 Protein, nucleic acid and cell biotechnology 6cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: BIOL 303 Biotechnology, 148 c.p. from BCompBioinf.
Co-requisites: Nil
Restrictions: Assumed knowledge: Computing science, mathematics and statistics; Genetics, molecular biology
Exclusions: none
Assessment: Presentation of one seminar; written examination.
Subject Description: The subject will provide a comprehensive education in the application of the disciplines of cell biology, molecular biology and biochemistry to biotechnology. Students will investigate recent and emerging technologies used in the generation of products by the biotechnology industry. Topics will include cell culture, protein properties and purification, antibody technology, nucleic acid and recombinant DNA technology. They will consider the social and ethical implications of developments which utilise biotechnology.
Subject Objectives: 1. Understand the contribution by the following technologies to present any impending developments in fundamental research, agriculture, medicine and industry: cell culture, protein and antibodies. 2. Comprehend the structure-function relationships of proteins and the principles for their isolation purification and characterisation. 3. Appreciate antibody structure and function and understand the current application of these molecules in the field of biotechnology. 4. Possess an understanding of the roles which nucleic acid technology plays as a tool in the research, diagnostic, clinical and therapeutic regimes. Appreciate and comprehend the principles and methods involved in recombinant DNA technology. 5. Foster and promote the development of scientifically critical and socially responsible attitudes to ethical issues arising from the implementation of biotechnology.
CHEMISTRY

CHEM101 Chemistry IA: Introductory Physical & General Chemistry 6cp
Autumn Wollongong On Campus
Contact Hours: 26hrL, 13hrT, 39hrP.
Pre-requisites: NSW HSC Examination 2U Chemistry (at least 50 marks out of 100) 3U Science (at least 75 marks out of 150) 4U Science (at least 100 marks out of 200)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Practical assignments, test, computer assignment, plus written examination.
Subject Objectives: information unavailable

CHEM102 Chemistry IB: Introductory Organic & Physical Chemistry 6cp
Spring Wollongong On Campus
Contact Hours: 26hrL, 13hrT, 39hrP.
Pre-requisites: NSW HSC Examination, 2U Chemistry (at least 50 marks out of 100), 3U Science (at least 75 marks out of 150), 4U Science (at least 100 marks out of 200)
Co-requisites: none
Restrictions: none
Exclusions: Not to count for credit with CHEM105
Assessment: Practical assignments, test, computer assignment, plus written examination
Subject Objectives: information unavailable

CHEM103 Introductory Chemistry For Engineers 6cp
Autumn Wollongong On Campus
Summer 2002/2003 Shoalhaven Flexible
Contact Hours: 39hrL, 18hrTut/Dem, 21hrP.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count for credit with CHEM101 or CHEM104
Assessment: Practical assignments, test, computer assignment, plus written examination.
Subject Description: Atomic theory, chemical bonding, structure. Simple organic molecules and reactivity. Thermodynamics and thermochemistry. Gases, liquids and solutions. Chemical basis of engineering materials such as cement, adhesives, polymers, fuels, metals and semiconductors. Environmental chemistry-pollution and pollution control. Kinetics and radiation chemistry. Not to count for credit with CHEM101 or CHEM104
Subject Objectives: information unavailable

CHEM104 Chemistry 1D (Introductory Chemistry) 6cp
Autumn Wollongong On Campus
Contact Hours: 39hrL, 13hrT, 39hrP.
Pre-requisites: Nil. Students who satisfy the HSC pre-requisites for CHEM101 and CHEM102 are not permitted to enrol.
Co-requisites: none
Restrictions: none
Exclusions: Not to count for credit with CHEM101 or CHEM103
Assessment: Practical assignments, test, computer assignment, plus written examination.
Subject Objectives: information unavailable

CHEM105 Chemistry 1E (Introductory Chemistry) 6cp
Spring Wollongong On Campus
Contact Hours: 39hrL, 13hrT, 39hrP.
Pre-requisites: Nil. Students who satisfy the HSC pre-requisite for CHEM101 and CHEM102 are not permitted to enrol.
Co-requisites: none
Restrictions: none
Exclusions: Not to count with CHEM102
Assessment: Practical assignments, test, computer assignment, plus written examination.
Subject Objectives: information unavailable

CHEM211 Inorganic Chemistry II 6cp
Autumn Wollongong On Campus
Contact Hours: 39hrL&T, 39hrPrac.
Pre-requisites: CHEM101/104 and CHEM102/105
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Practical assignments 20% and quizzes 20%, plus written examination 60%.
Subject Description: Introduction to modern coordination chemistry. The coordinate bond; types of ligands; hard and soft acid-base theory, inorganic kinetics, reaction mechanisms; coordination numbers and geometries, isomerism. Factors

Subject Objectives: information unavailable

CHEM212 Organic Chemistry II 6cp

Spring Wollongong On Campus

Contact Hours: 39hr L&T, 13hr T, 39hr Prac.

Pre-requisites: CHEM101 and CHEM104 OR CHEM102 and CHEM105

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Practical assignments 20%, quizzing 10%, assignments 15% and written examination 55%

Subject Description: Modern organic synthetic methods, theory and practice. This includes: An introduction to organic chemical stereochemistry; fundamentals of molecular mechanism; synthetic transformations of organic molecular moieties; applications of spectroscopy.

Subject Objectives: information unavailable

CHEM213 Physical Chemistry II 6cp

Spring Wollongong On Campus

Contact Hours: 39hr L&T, 39hr Prac.

Pre-requisites: CHEM101/ CHEM104 and CHEM102/ CHEM105 & Faculty of Science minimum mathematics requirement

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Practical, mid-session quiz plus written examination.


Subject Objectives: information unavailable

CHEM214 Analytical and Environmental Chemistry 6cp

Spring Wollongong On Campus

Contact Hours: 39hr L/T, 39hr Pracs.

Pre-requisites: CHEM101/ CHEM104 and CHEM102/ CHEM105 or CHEM103 & Faculty of Science minimum mathematics requirement

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Practical assignments 30%, Tutorial assignments 15%, and written examination 55%

Subject Description: This subject is an introduction to analytical chemistry and its application to environmental and biological systems. It will provide an understanding of variations in sample composition and collection methods, sample preparation and analysis using current instrumentation, and data interpretation using statistics and chemometrics. The material will be presented in lectures, laboratory exercises, a workshop discussion and an on-campus sampling demonstration.

Subject Objectives: information unavailable

CHEM215 Food Chemistry 6cp

Autumn Wollongong On Campus

Contact Hours: 39hr L&T, 18hr Prac.

Pre-requisites: CHEM101/ CHEM104 and CHEM102/ CHEM105

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Practical assignments 20% and quiz 20%, plus written examination 60%

Subject Description: Only listed in the Health & Behavioural Sciences Schedule This subject is designed as a core subject in the BSc (Nutrition) program. Description: Types of nutrients, energy value of food. Fats, carbohydrates, and proteins in foods. Colloidal systems. Essential trace elements, vitamins. Cooking, preservation and processing of food. Chemical additives and toxins in food.

Subject Objectives: information unavailable

CHEM218 Special Chemistry Studies 6cp

Spring Wollongong On Campus

Autumn Wollongong On Campus

Contact Hours: 6hr Lab session etc.

Pre-requisites: Entry restricted to BSc(Hons) Adv. candidates

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Written report on student's project.

Subject Description: This subject will involve the study of specific research areas of chemistry under the guidance of a member of staff. This study may include research assistance, directed reading, computer-based studies, and library assignments.

Subject Objectives: information unavailable

CHEM311 Inorganic Chemistry III 6cp

Spring Wollongong On Campus

Contact Hours: 39hr L&T, 39hr Prac.

Pre-requisites: CHEM211

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: Practical 20%, quizzes 20% and written examination 60%


Subject Objectives: information unavailable
CHEM14 Instrumental Analysis 8cp
Autumn Wollongong On Campus
Contact Hours: 39hrL&T, 39hrPrac.
Pre-requisites: CHEM214
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: coursework (including Practical) 40%; Quiz 10%; Written exam 50%
Subject Description: Techniques of organic and inorganic trace analysis, focussing on the theory and application of a wide range of instrumental methods will be taught. These include: mass spectrometry, atomic absorption and emission techniques, x-ray fluorescence spectrometry, surface analysis, liquid and gas chromatography and electrochemical methods. The course also covers the selection of analytical technique and instrumentation, statistical and sampling methods.
Subject Objectives: information unavailable

CHEM30 Biomedical Science 8cp
Spring Wollongong On Campus
Contact Hours: 39hrL&T, 39hrPrac.
Pre-requisites: CHEM212 (BIOL213 is highly recommended but not essential)
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Practical assignments 25%, quiz 15%, and written examination 60%.
Subject Description: The concepts, principles and applications of medicinal chemistry are examined and include: drug lead discovery, investigation into the key molecular features necessary for medicinal action, drug metabolism, stereochemistry/chirality and drug action, modern methods in drug design including computer-aided molecular modelling. This course also has guest lecturers who are experts in the varying fields of medicinal chemistry. This could include speakers from pharmaceutical companies or from research institutes.
Subject Objectives: information unavailable

CHEM330 Medicinal Chemistry 8cp
Spring Wollongong On Campus
Contact Hours: 39hrL&T, 39hrPrac.
Pre-requisites: CHEM212 and BIOL214 and BMS202. Entry restricted to BMedChem candidates.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Final examination 55%, practical work 20%, laboratory mini project 5%, literature assignment 5% and seminar based on assignment 5%, quiz 10%.
Subject Description: The concepts, principles and applications of medicinal chemistry are examined and include: drug lead discovery, investigation into the key molecular features necessary for medicinal action, drug metabolism, stereochemistry/chirality and drug action, modern methods in drug design including computer-aided molecular modelling. This course also has guest lecturers who are experts in the varying fields of medicinal chemistry. This could include speakers from pharmaceutical companies or from research institutes.
Subject Objectives: information unavailable

CHEM340 Chemistry Laboratory Project 8cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Contact Hours: 6hrP/week+smnrs etc,
Pre-requisites: Four 200-level Chemistry subjects. Restricted entry. Admission by application to Head of Department of Chemistry
Co-requisites: Two 300-level Chemistry subjects
Restrictions: none
Exclusions: none
Assessment: Report on project and literature review 80%. Seminar on project 20%.
Subject Description: Research projects are undertaken under the direct guidance of an academic supervisor, chosen after consultation with academic staff and the Head of Department. The projects will introduce students to a range of advanced experimental techniques, and familiarise them with the scientific approach to research. Students must attend Departmental seminars. Selection for this laboratory project is based on merit, and intending students should consult with the Head before enrolment.
Subject Objectives: information unavailable
CHEM350 Principles of Pharmacology 8cp
Autumn Wollongong On Campus
Contact Hours: 39hrL&T, 39hrPrac.
Pre-requisites: CHEM212 or BIOL214 and BMS202.
CHEM350 is normally restricted to BMedChem candidates. Other students should contact the co-ordinator.
Co-requisites: none
Restrictions: none
Assessment: Practical 20%, library assignment and seminar 20%, written examination and test 60%.
Subject Description: This course is designed to introduce students to the basic concepts of pharmacology. Topics covered will include, receptors and molecular basis of drug action, drug disposition and bioavailability, kinetics of drug action, factors affecting drug activity, in vitro and in vivo screening procedures, pharmacology of prototype drugs, and drug interactions.
Subject Objectives: information unavailable

CEM364 Molecular Structure and Spectroscopy 8cp
Autumn Wollongong On Campus
Contact Hours: 39hrL&T, 39hrPrac.
Pre-requisites: CHEM213
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Written final examination 60%, Practical & tutorial assignments 30%, mid-session quiz 10%.
Subject Description: Spectroscopy in its many forms is one of the most important tools we have for both molecular structure determinations and in quantitative chemical analysis. This multi-faced course covers the fundamentals and many uses of spectroscopy for molecular structure determination and analysis. It includes optical (infrared, visible and ultraviolet), mass and nuclear magnetic resonance (NMR) spectroscopy and a formal treatment of molecular symmetry. Applications to organic, inorganic, biological and gas-phase systems are covered.
Subject Objectives: information unavailable

CHEM401 Chemistry Honours 48cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: information unavailable
Pre-requisites: Normally at least 32 credit points of 300-level Chemistry subjects at an appropriate standard. Not to count with CHEM402 or 403, 422.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Coursework (15%); Research project, thesis and seminars (85%)
Subject Description: Coursework: advanced topics and skills for chemistry research including oral and written communication, project management, library techniques and OH&S. Research Project: each year, available projects are provided by the Department of Chemistry. See Co-ordinator or Head of Department
Subject Objectives: information unavailable

CHEM402 Chemistry Honours Part I For Part-Time 24cp
Annual Wollongong On Campus
Autumn Wollongong On Campus
Spring Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: information unavailable
Pre-requisites: Normally 32 credit points of 300-level Chemistry subjects at an appropriate standard. Not to count with CHEM401.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Coursework (15%); Research project, thesis and seminars (85%)
Subject Description: Coursework: advanced topics and skills for chemistry research including oral and written communication, project management, library techniques and OH&S. Research Project: each year, available projects are provided by the Department of Chemistry. See Co-ordinator or Head of Department
Subject Objectives: information unavailable

CHEM403 Chemistry Honours Part 2 for Part-Time Students 24cp
Annual Wollongong On Campus
Spring 2002/ Wollongong On Campus
Autumn 2003
Contact Hours: information unavailable
Pre-requisites: Normally 32 credit points of 300-level Chemistry subjects at an appropriate standard. Not to count with CHEM401.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Coursework (15%); Research project, thesis and seminars (85%)
Subject Description: Coursework: advanced topics and skills for chemistry research including oral and written communication, project management, library techniques and OH&S. Research Project: each year, available projects are provided by the Department of Chemistry. See Co-ordinator or Head of Department
Subject Objectives: information unavailable

CHEM405 Chemistry Joint Honours 24cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Normally 24 credit points of 300-level Chemistry subjects at an appropriate standard. Entry is subject to the approval of the Head of Department of Chemistry. This subject is taken with 24 credit points at 400-level from another Department.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Coursework (15%); Research project, thesis and seminars (85%)
Subject Description: A list of topics available will be provided by the Department. See Co-ordinator or Head of Department
Subject Objectives: information unavailable
Subject Descriptions

CHEM430 Selected Topics in Medicinal Chemistry 12cp
Annual Wollongong On Campus
Contact Hours: 84 hrs L&T.
Pre-requisites: CHEM330. Entry restricted to BMedChem candidates.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Written examinations 60%, literature assignments 10%, project essay 20%, seminar 10%.
Subject Description: Specialist courses in aspects of medicinal chemistry and related areas. Topics will include: structure-based ligand design (including computer-aided drug design); structure-pharmacological property relationships; synthesis and applications of radiopharmaceuticals; drug stability and formulation; toxicology and metabolism; advanced synthetic chemistry (including asymmetric synthesis and chiral drugs); bioactive natural products and drug development (including medicinal plant studies).
Subject Objectives: information unavailable

CHEM431 Selected Topics in Medicinal Chemistry Part 1 6cp
Spring Wollongong On Campus
Contact Hours: 42hrs L&T.
Pre-requisites: CHEM330. Entry restricted to BMedChem candidates who commence BMedChem(Hons) mid-year.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Written examinations 60%, literature assignments 10%, project essay 20%, seminar 10%.
Subject Description: Specialist courses in aspects of medicinal chemistry and related areas. Topics will include: structure-based ligand design (including computer-aided drug design); structure-pharmacological property relationships; synthesis and applications of radiopharmaceuticals; drug stability and formulation; toxicology and metabolism; advanced synthetic chemistry (including asymmetric synthesis and chiral drugs); bioactive natural products and drug development (including medicinal plant studies).
Subject Objectives: information unavailable

CHEM432 Selected Topics in Medicinal Chemistry Part 2 6cp
Autumn Wollongong On Campus
Contact Hours: 42hrs L&T.
Pre-requisites: CHEM330. Entry restricted to BMedChem candidates.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Written examinations 60%, literature assignments 10%, project essay 20%.
Subject Description: Specialist courses in aspects of medicinal chemistry and related areas. Topics will include: structure-based ligand design (including computer-aided drug design); structure-pharmacological property relationships; synthesis and applications of radiopharmaceuticals; drug stability and formulation; toxicology and metabolism; advanced synthetic chemistry (including asymmetric synthesis and chiral drugs); bioactive natural products and drug development (including medicinal plant studies).
Subject Objectives: information unavailable

CHEM450 Medicinal Chemistry Project 28cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: CHEM330 and CHEM350. Entry restricted to BMedChem candidates.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Based on a research project thesis 90% and research seminar 10%.
Subject Description: A list of research projects in medicinal chemistry available for study in any one year will be provided by the Department of Chemistry. The development of appropriate joint projects within or outside the University is actively encouraged.
Subject Objectives: information unavailable

CHEM451 Medicinal Chemistry Project Part 1 14cp
Spring Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: CHEM330 and CHEM350. Entry restricted to BMedChem candidates.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Based on research project thesis 90% and research seminar 10%.
Subject Description: Research project in medicinal chemistry. For students commencing BMedChem research project in Session 2.
Subject Objectives: information unavailable

CHEM452 Medicinal Chemistry Project Part 2 14cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Based on research project thesis 90% and research seminar 10%.
Subject Description: Research project in medicinal chemistry.
Subject Objectives: information unavailable
ENVIRONMENTAL SCIENCE

ENVI391 Environmental Science 8cp
Spring Wollongong On Campus
Contact Hours: 2hrsL 1hrT 3hrsP.
Pre-requisites: Enrolment in BEnvSc or BSc (Environment) and completion of BIOL251, CHEM214, GEOS222 and GEOS214
Co-requisites: none
Restrictions: none
Exclusions: Not to be counted with ENVI491
Assessment: Assignments 25%, major project report 35%; final examination 40%.
Subject Description: This subject builds on the interdisciplinary knowledge gained through the first and second year BEnvSc program. Focus is on interactions between biological, chemical, geological and geographical factors and processes in major ecosystems including coral reefs, coasts, estuaries, rivers, lakes, alpine, forests, and grasslands. Existing and potential impacts that influence environmental management will also be investigated such as water and waste management, climate change, population growth, and social and political factors.
Subject Objectives: The principal objective of this subject is that students should understand the components of their physical environment, and how these interact to create the complex world in which we live. By the end of the subject they should be able to: describe the physical, biological and chemical features of major ecosystems; evaluate and quantify common environmental impacts on ecosystems; understand and evaluate important environmental science concepts such as total catchment management; coastal zone management; analyze, interpret and effectively report field and laboratory data.

ENVI403 Research Report 24cp
Annual Wollongong On Campus
Spring 2002/ Autumn 2003
Contact Hours: information unavailable
Pre-requisites: Enrolled in final year of BEnvSc.
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: Major report 100%.
Subject Description: A research project for an organisation involved with solving environmental problems will be allocated to candidates in consultation with the Professor of Environmental Science.
Subject Objectives: information unavailable

ENVI491 Environmental Science and Systems 8cp
Spring Wollongong On Campus
Contact Hours: 2hrsL 1hrT 3hrsP.
Pre-requisites: Enrolment in BEnvSc and completion of BIOL251, CHEM214, GEOS222 and GEOS214
Co-requisites: None
Restrictions: none
Exclusions: Not to be counted with ENVI391
Assessment: Assignments 25%; major project report 35%; final examination 40%.
Subject Descriptions

GEOSCIENCES

GEOS102  Earth Environments and Resources  6cp
Spring Wollongong On Campus
Contact Hours: 5 hrs, 1 day field.
Pre-requisites: Prior completion of GEOS111 is recommended
Co-requisites: none
Restrictions: none
Exclusions: Not to count with GEOS251 or GEOS252
Assessment: 40% written examination, 10% multiple choice tests, 5% field tests, 10% practical tests, 35% practical examination.
Subject Description: The frequent conflicts between resource utilisation and its environmental consequences are of major concern in modern societies. This subject considers the implications and environmental and geological aspects of resource utilisation on Earth. Topics include economic geology: gold, metals, water, coal, oil and gas; industrial minerals; geophysical exploration; mining and resources; sedimentary processes, products and environments of deposition; fossils and palaeoecology.
Subject Objectives: information unavailable

GEOS111  Planet Earth  6cp
Autumn Wollongong On Campus
Contact Hours: 5 hrs, 1 day field.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: Not to count with GEOS251 or GEOS252
Assessment: 40% written examination, 10% multiple choice tests, 5% field tests, 10% practical tests, 35% practical examination.
Subject Description: How does the solid planet Earth function and of what does it consist? This subject provides an introduction to earth sciences by considering topics such as geological time, the solar system; the interior of Earth; tectonics and structural geology; crystals; minerals; volcanoes and volcanic processes; and characteristics of igneous, sedimentary and metamorphic rocks.
Subject Objectives: information unavailable

GEOS112  Physical Environments  6cp
Autumn Wollongong On Campus
Contact Hours: 5 hrs, 1 day field.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 1 examination, 2 essays, practical work
Subject Description: This subject examines the physical geography of our planet including the character of the oceans and their interaction with the land masses, the behaviour of the atmosphere, world-wide weather and climatic patterns, climatic change, major distributions of soil and biota, and the Earth's landforms. The latter includes information on weathering, theories of landform evolution, hillslope processes, glaciation, hydrology, river and coastal processes, and deserts. Laboratory classes concentrate on map and air photograph interpretation.
Subject Objectives: information unavailable

GEOS142  The Human Environment: Problems and Change  6cp
Spring Shoalhaven Flexible
Spring Wollongong On Campus
Spring Bega Education Access Centre Flexible
Spring Batemans Bay Flexible
Contact Hours: 2hr lect/2hr prac.
Pre-requisites: none
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 2 examinations, practical work
Subject Description: This subject introduces students to the central themes of human geography. It aims to increase awareness and understanding of the impact of societies upon the environment. In particular it deals with questions relating to urban and political change, economic development and patterns of resource distribution. Practical classes introduce basic graphical, mapping and statistical skills and apply them to the analysis of course-relevant problems.
Subject Objectives: information unavailable

GEOS205  Field Geology I  6cp
Summer 2002/2003 Wollongong Flexible
Contact Hours: 12 days field tutorial.
Pre-requisites: GEOS111 or satisfactory progress in GEOS102
Co-requisites: none
Restrictions: none
Exclusions: Not to count with GEOS301
Assessment: Field exercises (55%), Field attitude and competence (10%), Field report (35%)
Subject Description: The subject is taught and assessed on the basis of work completed during a 12 day field tutorial to view, describe and interpret well-exposed, coastal, rock sequences on the south coast of New South Wales. A variety of techniques will be used for measurement of stratigraphic sections, description and interpretation of geological structures, detailed sedimentary and volcanic facies assessment, and the organisation and production of geological maps, field mapping exercises and reports.
Subject Objectives: On successful completion of this subject, students will be able to: 1. Measure and describe field observations from a variety of geological environments; 2. Record via written notes and graphic logs field observations from a variety of geological environments; 3. Discuss and critically evaluate field-based geological data in both verbal and written formats; 4. Appreciate the relevance of localised field observations to large scale geological structures; 5. Interpret geological events and environments from field observations; 6. Work as part of a small team to measure field data; and 7. Appreciate the safety aspects relating to field work, including the safety and welfare of others.
Subject Objectives: On successful completion of this subject, a student will be able to: 1. discuss and critically evaluate data on the causes and effects of global events 2. critically evaluate information sources 3. describe and interpret catastrophic events 4. measure, describe, record and interpret field observations on volcanic sequences 5. understand critical events in Earth's evolution in terms of the deposits formed; and 6. appreciate the relevance of global events to the evolution of Earth and its life forms.

GEOS220 Climate and Natural Hazards  6cp

Contact Hours: 4 hrs L/Per 2days field.
Pre-requisites: Normally 12 credit points of 1st year GEOS subjects
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: practical test; research report/essay; final examination
Subject Description: Basic processes leading to climatic and geophysical hazards are described. Responses to such hazards are set within the historical context of past climates and disasters. The human impact on climate, including enhanced 'greenhouse' warming, sulphate aerosol pollution, expanding cities and increased atmospheric dust, is assessed with respect to past climatic change. Practicals complement lectures, while providing the basic techniques for collecting, analysing and presenting climate and hazard information.

GEOS222 Biogeography  6cp

Contact Hours: 5 hrs L/P, 2day field.
Pre-requisites: GEOS112 or BIOL104
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: essay, laboratory reports, research report, final examination
Subject Description: Biogeography is the study of the distribution of plants and animals and their interaction with the physical environment. This subject examines the present distribution of vegetation in relation to climate, topography and soils at global and local scales. Field methods of vegetation sampling and mapping are emphasised, as well as quantitative data analysis. The evidence for the evolution of Gondwanan flora and fauna is examined and related to climatic and geological changes.

GEOS231 Environmental Impact of Societies  6cp

Contact Hours: 5hrsL/P/T 2Day Field.
Pre-requisites: At least 30 cp of 100-level subjects normally including GEOS112
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: essays/field/practical assignments; final examination
Subject Description: The rise of environmental lobby groups and the continuing debate over wilderness preservation, sustainable development and pollution testify to the present
global and Australian concern about the impacts of human communities on the environment. These concerns are considered in terms of processes causing adverse impacts, means of minimising these impacts, and resolution of conflicts between competing land uses. Topics include water management, land degradation, mining, and urban and industrial pollution.

Subject Objectives: information unavailable

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<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>GEOS234</td>
<td>Environmental Prehistory of Australia</td>
<td>6cp</td>
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<tr>
<td>Autumn</td>
<td>Wollongong</td>
<td>On Campus</td>
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<tr>
<td>Contact Hours:</td>
<td>information unavailable</td>
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<tr>
<td>Pre-requisites:</td>
<td>At least 30 cp of 100-level subjects normally including GEOS112</td>
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<td>Co-requisites:</td>
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<td>Restrictions:</td>
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<td>Exclusions:</td>
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<tr>
<td>Assessment:</td>
<td>essays, field report, final examination</td>
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<tr>
<td>Subject Description:</td>
<td>This subject reviews the evidence for the antiquity of the Aborigines, and provides an introduction to the techniques of dating and interpreting aboriginal cultural sites. Topics include geomorphological and biogeographical techniques used for reconstructing Late Quaternary environments; adjustments made by Aborigines to major environmental changes; the development and variety of aboriginal economies, aboriginal impact on the environment, including fire; extinction of giant marsupials; and environmental impact assessment of Aboriginal sites.</td>
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Subject Objectives: information unavailable

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<tbody>
<tr>
<td>GEOS239</td>
<td>Remote Sensing of the Environment</td>
<td>6cp</td>
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<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>On Campus</td>
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<tr>
<td>Contact Hours:</td>
<td>5 hrs L/P, field tut.</td>
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<tr>
<td>Pre-requisites:</td>
<td>At least 30 cp of 100-level subjects normally including GEOS112</td>
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<tr>
<td>Co-requisites:</td>
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<td>Restrictions:</td>
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<td>Exclusions:</td>
<td>none</td>
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<tr>
<td>Assessment:</td>
<td>essay, practical exercises, project, final examination</td>
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<tr>
<td>Subject Description:</td>
<td>This subject introduces the principles and techniques for identifying and mapping environmental features using images obtained from satellites and aircraft. Satellite imagery from Landsat, SPOT, NOAA and ERS will be examined. Case studies will be used to illustrate the multidisciplinary scope of remote sensing. Topics include environmental monitoring, vegetation analysis, geological exploration and urban planning. Practical work involves the development of interpretation skills as well as computer-based digital analysis.</td>
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<tbody>
<tr>
<td>GEOS242</td>
<td>Living in Cities</td>
<td>6cp</td>
</tr>
<tr>
<td>Autumn</td>
<td>Wollongong</td>
<td>On Campus</td>
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<tr>
<td>Contact Hours:</td>
<td>information unavailable</td>
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<tr>
<td>Pre-requisites:</td>
<td>Normally GEOS142</td>
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<td>Co-requisites:</td>
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<td>Restrictions:</td>
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<td>Exclusions:</td>
<td>none</td>
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<tr>
<td>Assessment:</td>
<td>tutorial/practical assignments; field report; essay; final examination</td>
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<tr>
<td>Subject Description:</td>
<td>This subject examines the experience of living in cities, their social construction and the interpretation of urban landscapes. Explicit attention is focused on the mosaic of social worlds which exist within the city, including the sense of community and residential segregation. Problems such as inequitable access to resources and locational conflict are also examined. The subject explicitly considers a variety of perspectives, data sources and basic techniques of urban analysis.</td>
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</thead>
<tbody>
<tr>
<td>GEOS243</td>
<td>Rural Australia: Economy, Community and Environment</td>
<td>6cp</td>
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<tr>
<td>Autumn</td>
<td>Wollongong</td>
<td>On Campus</td>
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<tr>
<td>Autumn</td>
<td>Shoalhaven</td>
<td>Flexible</td>
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<tr>
<td>Autumn</td>
<td>Bega Education</td>
<td>Flexible</td>
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<tr>
<td>Autumn</td>
<td>Batemans Bay</td>
<td>Flexible</td>
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<tr>
<td>Contact Hours:</td>
<td>2 lectures 3hr prac.</td>
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<td>Exclusions:</td>
<td>none</td>
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<tr>
<td>Assessment:</td>
<td>essay, tutorial paper, practical/field assignments, final examination</td>
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<tr>
<td>Subject Description:</td>
<td>Changing global markets and technologies have created increasing economic difficulties for the Australian rural sector. Adverse economic conditions have contributed to rural depopulation, declining services and widespread land degradation and at the same time reduced the capacity of rural communities to respond to these problems. This subject examines the linkages between global development, trade agreements and agricultural markets, and Australian rural restructuring and social and environmental conditions.</td>
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<tbody>
<tr>
<td>GEOS246</td>
<td>A Hungry World: Food Resources and the World Economy</td>
<td>6cp</td>
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<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>On Campus</td>
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<tr>
<td>Contact Hours:</td>
<td>2hr lect./2hr prac.</td>
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<tr>
<td>Pre-requisites:</td>
<td>Normally GEOS142</td>
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<td>Co-requisites:</td>
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<td>Exclusions:</td>
<td>none</td>
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<tr>
<td>Assessment:</td>
<td>essay, tutorial papers, practical assignments, final examination</td>
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<tr>
<td>Subject Description:</td>
<td>Inequalities in the distribution of food resources are evident at local to international scales. This subject examines the structural causes of hunger on a world political-economy scale, and the physical, demographic, social and technological forces involved in the production and distribution of food resources. The causes and consequences of global economic restructuring on food production and resources are examined for old, new and least industrialised countries.</td>
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<th>Credit Points</th>
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<tbody>
<tr>
<td>GEOS251</td>
<td>Geology for Engineers I</td>
<td>6cp</td>
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<tr>
<td>Spring</td>
<td>Wollongong</td>
<td>On Campus</td>
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<tr>
<td>Spring</td>
<td>Shoalhaven</td>
<td>On Campus</td>
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<tr>
<td>Contact Hours:</td>
<td>Wollongong - 5hrs L/P, Shoalhaven - information unavailable.</td>
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<tr>
<td>Pre-requisites:</td>
<td>none</td>
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<tr>
<td>Co-requisites:</td>
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<tr>
<td>Restrictions:</td>
<td>This subject is restricted to students enrolled in a Bachelor of Engineering degree</td>
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</tbody>
</table>
Exclusions: Not to count for credit with: GEOS111 and GEOS102

Assessment: multiple choice and practical tests in the field and laboratory 30%; 1 practical examination 40%, theory examination 30%

Subject Description: This subject provides an introduction to geology applied to engineering. Topics include rock-forming minerals; petrology and physical properties of igneous, sedimentary and metamorphic rocks; weathering and erosion; basic geological structures and identification of unstable rock masses; geological mapping and three-point problems; geological controls on groundwater flow and chemistry; geophysics; site investigations; relationship between geology and various engineering works such as excavations, tunnels, dams and foundations.

Subject Objectives: information unavailable.

GEOS252 Geology for Engineers II 6cp

Contact Hours: Subject not on offer in 2002.

Pre-requisites: none

Co-requisites: none

Restrictions: This subject is restricted to students enrolled in a Bachelor of Engineering degree

Exclusions: Not to count for credit with: GEOS111 and GEOS102

Assessment: class assessment including one or more of class tests, assignments, field reports, practical examination 50% and theory examination 50%

Subject Description: GEOS252 builds on the concepts given in GEOS251 as well as reviewing mining geology. Topics include geological problems related to resource calculations; ore minerals; ore deposit genesis and implications for mining resulting from the geology of the deposits; geological basis for environmental problems; geology and mine site rehabilitation; coal formation and coal geology; geology of coal seam gas; geophysical techniques applied to mining; relevant case studies.

Subject Objectives: information unavailable.

GEOS292 Special Geosciences Studies 6cp

Spring Wollongong On Campus

Autumn Wollongong On Campus

Contact Hours: 6 hrs per week.

Pre-requisites: 12 credit points of 100-Level Geoscience subjects. Enrolment in BSc(Advanced) degree

Co-requisites: Nil

Restrictions: none

Exclusions: none

Assessment: project report 70%, literature review presentations/seminars/examinations 30%

Subject Description: This subject involves the study of specific research topics in Geosciences under the guidance of a member of staff. The study may include research assistance, directed reading, computer-based studies, library assignments. Emphasis will be placed on the appropriate design and execution of field or laboratory experiments and/or studies involving the analysis and interpretation of data. Students will develop skills in the acquisition and presentation of data in verbal and written form.

Subject Objectives: At the conclusion of this subject students should: Develop an understanding of the principles of Geosciences research methodologies. Be able to understand the designing, implementation and recording of a Geosciences field study, and/or laboratory project. Be competent in the analysis and interpretation of scientific results. Be able to evaluate and synthesise scientific literature. Have developed skills necessary for the acquisition of information, for example computer searches of library data bases. Be able to effectively present both oral and written scientific reports. Be able to efficiently compile a major research report modelled on scientific publications. Have increased their knowledge of Geosciences relevant to the research topic studied

MARE218 Marine Sediments and Fossils 6cp

Spring Wollongong On Campus

Contact Hours: 4 hrs L/P, 2 days field.

Pre-requisites: GEOS102 and GEOS112

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: essay/literature reviews/seminar, practical tests/reports, field reports 50%, 1 theory examination 50%

Subject Description: This subject provides an introduction to marine sediments, sedimentary environments and fossils. Topics covered include clastic high- and low-energy shelf sediments; evaporites; reefs and cool-water carbonates; abyssal turbidite, contourite and pelagic deposits. Physical attributes, transport processes and the contributions and controls provided by marine organisms will be described for each environment. Stable isotopes, the deep-sea drilling program and climate and sea-level change will be discussed.

Subject Objectives: information unavailable.

GEOS302 Basin Resources 8cp

Autumn Wollongong On Campus

Contact Hours: 6hrsL/P, up to 5 days field work.

Pre-requisites: GEOS217

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: practical examinations, exercises and tests, seminars 60%; theory examination 40%

Subject Description: This subject covers major concepts in fossil fuel resources. Topics include environments of formation and properties of coal, petroleum and oil shale; coalification and petroleum maturation; assessment of coal type and rank; petroleum source rocks; applications of geophysics to petroleum and coal exploration; geophysical well logging; seismic stratigraphy; and burial and thermal history of sedimentary basins.

Subject Objectives: information unavailable.

GEOS304 Dynamic Earth 8cp

Autumn Wollongong On Campus

Contact Hours: 2hr lect/2hr prac.

Pre-requisites: GEOS217

Co-requisites: none

Restrictions: none

Exclusions: none

Assessment: theory and practical assignments, seminar, theory and practical tests, and field reports 60%; theory examination 40%

Subject Description: The subject provides an overview of the dynamic Earth with analysis of lithospheric processes of deformation. Topics covered in the subject include: plate tectonics, deformation of the crust and modern techniques in structural geology and tectonics. The principles of stress, strain and deformation are taught and applied to the understanding of rock structures. Aspects of the tectonic evolution of orogenic
Subject Descriptions

belts, including eastern Australian examples, are also dealt with.
Subject Objectives: information unavailable

GEOS305 Field Geology II 8cp
Summer 2002/2003 Wollongong Flexible
Contact Hours: 12 days field tutorial.
Pre-requisites: GEOS205 or GEOS217
Co-requisites: Nil
Restrictions: none
Exclusions: Not to count with GEOS301
Assessment: Field exercises (40%), Field attitude and competence (10%), Field report (50%)
Subject Description: The subject is taught as a 12-day field tutorial usually conducted in the Lachlan Fold Belt of New South Wales. A number of field exercises are undertaken including mapping and structural analysis of selected areas in small groups of students. Exercises include mapping sedimentary, volcanic and granitic rocks. Field data are collected on each of the exercises, and maps, cross-sections, and stratigraphic sections are compiled along with written reports. Assessment is based on submission of reports on the different exercises during and at the end of the field tutorial.
Subject Objectives: On successful completion of this subject, students will be able to: 1. Undertake geological mapping and structural analysis of selected areas; 2. Take field notes and record information from available outcrops; 3. Compile collected field data into geological maps and cross-sections; 4. Critically analyse field data both verbally and in writing; 5. Interpret depositional environments and modes of formation of rocks from collected field data; 6. Work as part of a team in the collection of field data; and 7. Comprehend safety aspects relating to field work including the welfare and safety of others.

GEOS307 Mineral Resources 8cp
Spring Wollongong On Campus
Contact Hours: 4hrs L/P, 4days field.
Pre-requisites: Normally 12 cp of 200-level Geosciences; prior completion of GEOS201 is recommended
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: practical assignments, tests, projects and seminar 50%; theory examination 50%
Subject Description: This subject covers the major concepts of metamorphic rocks; geochronology and geosynclinal geology; geology of metamorphic belts; geophysical exploration; applications of geophysics to mineral exploration, especially gravity and magnetic methods, radiometric surveys, and electrical and electromagnetic techniques; airborne geophysical and image analysis techniques; and resource assessment. Professional ethics in the mineral industry and the classification of ore reserves and resources are discussed.
Subject Objectives: information unavailable

GEOS315 Field Studies in Physical Geography 8cp
Spring Wollongong On Campus
Contact Hours: 10 day field trip/3hr prac.
Pre-requisites: 12 credit points from GEOS214, GEOS220, GEOS222, GEOS231, GEOS234 and GEOS239
Co-requisites: 8 cp of 300-level Physical Geography
Restrictions: none
Exclusions: none
Assessment: field reports, major project, seminars
Subject Description: Fieldwork will be carried out in the June/July intersession break plus one weekend during session. This will include a detailed program of field observation, description, mapping, surveying, sediment sampling, augering, stratigraphic interpretation, soil description and mapping, vegetation description and mapping, field sampling techniques, air photograph interpretation and satellite image interpretation.
Subject Objectives: information unavailable

GEOS321 Fluvial Geomorphology, Sedimentology and River Management 8cp
Autumn Wollongong On Campus
Contact Hours: 5hrs/wk, 5days fieldwk.
Pre-requisites: 12 credit points from GEOS201, GEOS214, GEOS217, GEOS220, GEOS222, GEOS231, GEOS234 and GEOS239
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: 10% practical exam, 20% 2 essays, 20% field reports, 10% test, 40% written exam
Subject Description: Rivers play a dynamic role in shaping the Earth's landforms (geomorphology), constructing sedimentary sequences of economic importance (sedimentology), and presenting flood and erosion hazards, all of which greatly influence human use of the Earth's surface. This subject examines processes forming and modifying contemporary drainage basins, interprets fluvial sedimentary records and relates changes in these records to variations in climate and depositional environment. Particular attention is given to human modification and the management of river systems.
Subject Objectives: information unavailable

GEOS334 Environmental Prehistory of Australia 8cp
Autumn Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Enrolment in Environmental Science program for BSc-LLB degree
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: essays, field report, project, final examination
Subject Description: This subject reviews the evidence for the antiquity of the Aborigines, and provides an introduction to the techniques of dating and interpreting aboriginal cultural sites. Topics include geomorphological and biogeographical techniques used for reconstructing Late Quaternary environments; adjustments made by Aborigines to major environmental changes; the development and variety of aboriginal economies, aboriginal impact on the environment, including fire; extinction of giant marsupials; and environmental impact assessment of Aboriginal sites.
Subject Objectives: information unavailable

GEOS339 Geographic Information Systems 8cp
Autumn Wollongong On Campus
Contact Hours: 5 hr per week.
Pre-requisites: 12 credit points from 200-Level or 300-Level Geosciences; prior completion of GEOS239 is recommended. Science Faculty Computer Literacy
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: essay, practical report, final examination
Subject Description: Geographic Information Systems (GIS) are computerised systems enabling storage, manipulation and display of spatial data. GIS can be used to model past and future scenarios, such as the effects of climate change, population growth or bushfire distribution. This course examines the principles of GIS, with an emphasis on natural resource management. It covers data acquisition, spatial databases, vector and raster systems, georeferencing, digital terrain modelling, analysis of errors and accuracy standards, and applications of GIS.
Subject Objectives: information unavailable

GEOS347 Northern Neighbours: Economic & Social Change in Asia Pacific Rim 8cp
Autumn Wollongong On Campus
Contact Hours: 5 hrs per week.
Pre-requisites: 12 credit points from GEOS242, GEOS243, GEOS246 or 6 credit points of 200-Level Economics or Sociology
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: research project/essay/seminar papers, field and practical assignments, final examination
Subject Description: Employers often seek graduates with demonstrated skills in team work, critical thinking, oral communication and report writing. This subject is designed to enable students to develop these skills. The lecture content is designed to enable students to critically study contemporary social and economic problems in the territory known as Pacific Asia, employing ideas developed in Human Geography. Underpinning the design of practicals is the objective that students will learn skills to transfer into their chosen career paths. Proficiency in three areas is concentrated upon in this subject: qualitative research, team work and presentation skills.
Subject Objectives: information unavailable

GEOS348 Cultural Landscapes 8cp
Contact Hours: Subject not on offer in 2002.
Pre-requisites: 24 credit points of subjects at 200-Level
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: research project, essays/seminar papers, final examination
Subject Description: Cultural landscapes have conceptual, social and physical dimensions. This subject examines the effects of cultural variables, such as gender, ethnicity and class, on urban and rural, Western and non-Western, past and contemporary, domestic and global societies. Particular attention is paid to the concepts of 'wilderness' and the 'natural environment'. The subject will be of interest to students intending to work in areas such as tourism, heritage or indigenous land management.
Subject Objectives: information unavailable.

GEOS349 Population, Health and Environment 8cp
Spring Wollongong On Campus
Contact Hours: 2hr lecture/2hr prac.
Pre-requisites: 12 credit points from GEOS242, GEOS243, GEOS246 or 6 credit points of 200-Level Public Health or Sociology
Co-requisites: none
Restrictions: not to be counted with GEOS322
Exclusions: none
Assessment: essay, reports, final examination
Subject Description: The present environment of Australia is the legacy of interactions between geological, biological and hydrological processes and human impacts. Understanding Quaternary changes is now recognised as crucial to the interpretation of our biotic and geomorphic landscapes. Topics

GEOS381 Directed Studies in Geosciences A 8cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Annual Wollongong On Campus
Contact Hours: 2hrsT/S/L,field wrk.
Pre-requisites: 8 credit points of 300-Level Geosciences
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: seminar presentation, essays, research report
Subject Description: This subject consists of directed reading, field and laboratory work (as required) and writing leading to the production of a major research essay/project report or reports in a field selected by the student and approved by the Supervisor.
Subject Objectives: information unavailable

GEOS382 Directed Studies in Geosciences B 8cp
Spring Wollongong On Campus
Autumn Wollongong On Campus
Annual Wollongong On Campus
Contact Hours: 2hrsT/S/L,field wrk.
Pre-requisites: 8 credit points of 300-Level Geosciences
Co-requisites: none
Restrictions: none
Exclusions: none
Assessment: seminar presentation, essays, research report
Subject Description: This subject consists of directed reading, field and laboratory work (as required) and writing leading to the production of a major research essay/project report or reports in a field selected by the student and approved by the Supervisor.
Subject Objectives: information unavailable
Subject Descriptions

include the nature of the Quaternary record; dating methods; pollen and charcoal analysis; biotic change; the role of fire; and geomorphic change. A global context to Quaternary change is provided.

Subject Objectives: information unavailable

MARE323 Coastal Environments: Process and Management 8cp
Spring Wollongong On Campus
Contact Hours: 2hr lecture/3hr prac & field trip.
Pre-requisites: 12 credit points from GEOS214, GEOS217, GEOS220, GEOS222, GEOS231, GEOS234 and GEOS239
Co-requisites: none
Restrictions: not be be counted with GEOS323
Exclusions: none
Assessment: essays, practical/field reports, final examination
Subject Description: This subject examines sedimentary and ecological processes on the coast and explores coastal management issues in the context of these processes. Topics include the morphology, evolution and morphodynamics of coastal landforms, particularly beaches, estuaries, deltas, coastal barriers, dunes and coral reefs. The role of different wave regimes, tectonic processes, sea-level change and extreme events in shaping the coast is examined.

Subject Objectives: information unavailable

GEOS401 Geosciences Honours 48cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: Entry restricted to students who have completed a Geoscience major with a credit average in the area of specialisation
Exclusions: none
Assessment: based upon thesis examination
Subject Description: Final-year Honours students are required to write a thesis of approximately 20-25,000 words on an approved topic embodying the results of a piece of supervised research and to participate in a seminar program.

Subject Objectives: information unavailable

GEOS402 Geosciences Joint Honours 24cp
Annual Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: none
Co-requisites: none
Restrictions: Joint Honours candidates must have satisfied the requirements for admission to Honours in both disciplines
Exclusions: none
Assessment: seminar papers, examinations, thesis
Subject Description: Students enrolling in this subject must: (1) have completed a program meeting the requirements for admission to Honours in Geosciences and a cognate discipline; (2) write a thesis on a topic acceptable to and supervised by each academic unit; (3) complete such course work as shall be determined by the Chairperson of each academic unit.

Subject Objectives: information unavailable
### MARE200 Introduction to Oceanography 6cp
- **Contact Hours:** 5-7 hrs per week.
- **Pre-requisites:** GEOS102, GEOS112, BIOL103, BIOL104, CHEM101/104, CHEM102/105
- **Subject Description:** This subject provides an introduction to oceanography. Topics covered include physical attributes of oceans; circulation and currents; tides and waves; marine organisms and biodiversity; environmental controls on organisms; processes of transport and behaviour of organisms in their life cycles; food webs and nutrient cycling; chemistry of seawater; sources and sinks of chemicals; carbon and carbonate cycles; chemical reactions in seawater, chemical exchange with sediments, stable isotopes and climate change.
- **Subject Objectives:** Information unavailable

### MARE218 Marine Sediments and Fossils 6cp
- **Contact Hours:** 4 hrs L/P, 2 days field.
- **Pre-requisites:** GEOS102 and GEOS112
- **Subject Description:** This subject provides an introduction to marine sediments, sedimentary environments and fossils. Topics covered include clastic high- and low-energy shelf sediments; evaporites; reefs and cool-water carbonates; abyssal turbidite, contourite and pelagic deposits. Physical attributes, transport processes and the contributions and controls provided by marine organisms will be described for each environment. Stable isotopes, the deep-sea drilling controls provided by marine organisms will be described for their life cycles; food webs and nutrient cycling; chemistry of seawater; sources and sinks of chemicals; carbon and carbonate cycles; chemical reactions in seawater, chemical exchange with sediments, stable isotopes and climate change.
- **Subject Objectives:** Information unavailable

### MARE300 Fisheries & Aquaculture 8cp
- **Contact Hours:** 6.
- **Pre-requisites:** MARE200, STAT252 and (BIOL351) or (BIOL355)
- **Subject Description:** This subject will provide an overview of fisheries biology and aquaculture (vertebrate and invertebrate) including: the diversity of Australian and international fisheries and their key challenges; relevant ecological issues (population dynamics, transport processes, stock identification); predictive modelling, fisheries management; secondary impacts of fisheries; the diversity of aquaculture; case studies in aquaculture; ecological impacts, potential for enhancement of fisheries.
- **Subject Objectives:** Knowledge of the diversity of fisheries and aquaculture in Australia and overseas. Have understanding of the factors (physical and biotic) regulating fisheries populations and fisheries and aquaculture. Knowledge of the basis of fisheries management and ability to construct simple predictive models. Have understanding of the potential roles of biological research in aquaculture (diseases, nutrition, parasitology, etc). Knowledge of the diversity and research needs of local fisheries and aquaculture. Knowledge of fish harvesting techniques and selected research methods. Students are expected to be able to conduct ecological surveys of fisheries habitat, identify fish species, maintain cultures of larvae and conduct effective library research.

### MARE322 Global Environmental Change 8cp
- **Contact Hours:** 2hr lecture/3hr prac. & field trip.
- **Pre-requisites:** 12 credit points from GEOS214, GEOS220, GEOS222, GEOS231, GEOS234 and GEOS239 including GEOS222 or GEOS234
- **Subject Description:** The present environment of Australia is the legacy of interactions between geological, biological and hydrological processes and human impacts. Understanding Quaternary changes is now recognised as crucial to the interpretation of our biotic and geomorphic landscapes. Topics include the nature of the Quaternary record; dating methods; pollen and charcoal analysis; biotic change; the role of fire; and geomorphic change. A global context to Quaternary change is provided.
- **Subject Objectives:** Information unavailable

### MARE323 Coastal Environments: Process and Management 8cp
- **Contact Hours:** 2hr lecture/3hr prac & field trip.
- **Pre-requisites:** 12 credit points from GEOS214, GEOS217, GEOS220, GEOS222, GEOS231, GEOS234 and GEOS239
- **Subject Description:** This subject examines sedimentary and ecological processes on the coast and explores coastal management issues in the context of these processes. Topics include the morphology, evolution and morphodynamics of coastal landforms, particularly beaches, estuaries, deltas, coastal barriers, dunes and coral reefs. The role of different wave regimes, tectonic processes, sea-level change and extreme events in shaping the coast is examined.
- **Subject Objectives:** Information unavailable
MARE393 Advanced Marine Science Project 8cp
Spring Wollongong On Campus
Summer 2002/2003 Wollongong On Campus
Contact Hours: information unavailable
Pre-requisites: Distinction average in relevant 2nd year Marine Science subjects
Co-requisites: nil
Restrictions: Students are assumed to be adequately prepared to undertake a research project in Marine Science. Evidence of 'fitness' is required if work involves snorkelling, SCUBA, use of boats or inter-tidal work. Available only to students enrolled in Bachelor of Marine Science.
Exclusions: none
Assessment: Literature review 25%; project report 55%; tutorial report/presentation 10%; seminar 10%
Subject Description: One research project will be undertaken after consultation with academic staff. Students will attend and participate in a seminar/tutorial program in either the Department of Biological Sciences or the School of Geosciences. Research may be a discrete component of a larger project in which the emphasis will be on solving a larger problem as part of a research team. Projects will focus on developing competence in a laboratory and/or field techniques. Intending students should consult the Coordinator before enrolment.
Subject Objectives: Students will develop research skills (including teamwork, experimental design, data analysis and interpretation and presentation of results) in at least one aspect of marine science; they will also increase their breadth of knowledge of marine science through their research, reading and seminars/tutorials.
# General Schedule

## Aboriginal Studies

### 100-Level
- ABST100 Introduction to Aboriginal Cultures 6
- ABST150 Introduction to Aboriginal Australia 6

### 200-Level
- ABST200 Aboriginal History Since Invasion 8

### 300-Level
- ABST300 Indigenous Theories of Decolonisation 8
- ABST301 Research Methods and Issues in Aboriginal Studies 8
- ABST350 Special Topic in Aboriginal Studies 8
- ABST361 Issues in Aboriginal Education 8
- ABST362 Aboriginal Pedagogy 8

## Accounting & Finance

### 100-Level
- ACCY100 Accounting IA 6
- ACCY102 Accounting IB 6

### 200-Level
- ACCY201 Financial Accounting IIB 6
- ACCY202 Financial Accounting IIA 6
- ACCY211 Management Accounting II 6
- ACCY212 Accounting for Marketing Decisions 6
- ACCY221 Business Finance I 6
- ACCY223 Investments I 6
- ACCY226 Financial Institutions 6
- ACCY227 Finance in Small Business 6
- ACCY228 Tax Planning 6
- ACCY231 Information Systems in Accounting 6
- ACCY241 International Financial Management 6

### 300-Level
- ACCY302 Financial Accounting III 12
- ACCY303 Selected Issues in Accounting A 6
- ACCY312 Management Accounting III 6
- ACCY313 Selected Issues in Accounting B 6
- ACCY322 Business Finance II 6
- ACCY323 Investments II 6
- ACCY324 Financial Statement Analysis 6
- ACCY325 Banking Practice 6
- ACCY327 Risk and Insurance 6
- ACCY328 Retirement and Estate Planning 6
- ACCY329 Real Estate Planning 6
- ACCY332 Advanced Information Systems in Accounting 6
- ACCY335 Systems Analysis and Design in Accounting and Finance 6
- ACCY336 Decision Support Systems 6
- ACCY342 Advanced Auditing 6
- ACCY351 International Business Finance 6
- ACCY352 Critical Perspectives in Finance 6
- ACCY353 Global Electronic Finance 6
- ACCY359 Selected Issues in Finance 6
- ACCY368 Insolvencies 6
- ACCY372 Topics in Accounting History 6
- ACCY380 Accounting for Information Technology 6
## General Schedule

### 400-Level

#### Compulsory Subjects for Honours Degree (Accountancy)
- ACCY403  Theoretical Foundations of Research  6
- ACCY404  Financial Accounting  6
- ACCY413  Management Accounting  6
- ACCY493  Research Essay  12

#### Compulsory Subjects for Honours Degree (Finance)
- ACCY491  Honours Finance  48

#### Combined Honours Degree in Accountancy and Management Subjects required

Subjects aggregating not less than 24 credit points are to be selected from the 400-level subjects offered by the Departments of Accounting and Finance, and of Management, with subjects aggregating not less than 12 credit points being in respect of Accountancy subjects and not less than 12 credit points being in respect of Management subjects; the overall program to be approved by the two Departmental Heads.

Entry to the combined Honours course requires approval of the Academic Senate on the recommendation of the Heads of the Departments of Accounting and Finance, and of Management.

#### Optional Subjects for Honours Degree

- ACCY405  International Accounting  6
- ACCY406  Issues in Financial Accounting  6
- ACCY407  Empirical Research Methods in Accounting  6
- ACCY408  Applied Financial Accounting  6
- ACCY409  Comparative Accounting Systems  6
- ACCY414  Management Planning and Control Systems  6
- ACCY416  Studies in Controllership  6
- ACCY418  Applied Management Accounting  6
- ACCY422  Investment Analysis  6
- ACCY423  Investment Management  6
- ACCY424  Corporate Financial Information Analysis  6
- ACCY425  Banking Theory and Practice  6
- ACCY426  Studies in Business Finance  6
- ACCY427  Small Business Finance  6
- ACCY428  Multinational Financial Management  6
- ACCY433  Studies in Information Systems in Accounting  6
- ACCY436  Management and Information Systems  6
- ACCY443  Auditing and Accounting Information Systems  6
- ACCY444  Issues in Auditing  6
- ACCY461  Professional Practice - Accounting  6
- ACCY462  Professional Practice - Auditing and EDP  6
- ACCY483  Professional Practice -Taxation  6
- ACCY468  Insolvencies  6
- ACCY473  History of Accounting Thought  6
- ACCY474  Accounting Regulation  6
- ACCY483  Studies in Government Accounting  6
- ACCY485  Special Topic in Accounting - A  6
- ACCY486  Special Topic in Accounting - B  6
- ACCY487  Special Topic in Finance  6
- ACCY493  Research Essay  12
- ACCY495  Research Essay  6

**Applied Statistics - Refer to Mathematics & Applied Statistics**
### Australian Studies

#### 100-Level
- **AUST101** Australian Studies: Cultures and Identities 6

#### 200-Level
- **AUST246** A Sociology of Australia's Indigenous People: Contemporary Issues and Debates 8

#### 300-Level
- **AUST300** Twentieth Century Australian Literary Culture 8

### Biological Sciences

#### 100-Level
- **BIOL103** Molecules, Cells and Organisms 6
- **BIOL104** Evolution, Biodiversity and Environment 6

#### 200-Level
- **BIOL213** Principles of Biochemistry 6
- **BIOL214** The Biochemistry of Energy and Metabolism 6
- **BIOL215** Introductory Genetics 6
- **BIOL240** Organisms and their Life Cycles 6
- **BIOL241** Biodiversity: Classification and Sampling 6
- **BIOL251** Principles of Ecology and Evolution 6
- **MARE200** Introduction to Oceanography 6

#### 300-Level
- **BIOL303** Biotechnology: Applied Cell and Molecular Biology 8
- **BIOL318** Bioinformatics and Diagnostic Biotechnology 8
- **BIOL320** Molecular Cell Biology 8
- **BIOL321** Cellular and Molecular Immunology 8
- **BIOL332** Comparative Physiology: Adaptation and Environment 8
- **BIOL351** Conservation Biology: Marine and Terrestrial Populations 8
- **BIOL355** Marine and Terrestrial Ecology 8
- **BIOL357** Field Methods in Ecology 8
- **BIOL391** Advanced Biology 16
- **BIOL392** Advanced Biology Project 8
- **BIOL393** Advanced Marine Science Project 8
- **MARE300** Fisheries and Aquaculture 8

### Biomedical Science

Priority to enrol in subjects offered by Biomedical Science will be given to students enrolled in approved schedules in the Faculty of Health and Behavioural Sciences or in specialisations which require Biomedical Science subjects.

#### 100-Level
- **BMS101** Systemic Anatomy 6
- **BMS112** Human Physiology 1: Principles and Systems 6
- **BMS103** Human Growth, Nutrition and Exercise 6

#### 200-Level
- **BMS200** Histology 6
- **BMS202** Human Physiology II: Control Mechanisms 6
- **BMS203** Musculoskeletal Functional Anatomy 6
- **BMS204** Introduction to Pathophysiology 6
- **BMS211** Foundations of Biomechanics 6
- **BMS242** Exercise Physiology 6

#### 300-Level
- **BMS300** Regional Anatomy 8
- **BMS302** Research Topics 8

**Pre-requisite also includes a minimum overall credit average and permission from the subject co-ordinator.
### General Schedule

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS303***</td>
<td>Research Topics in Exercise Science</td>
<td>8</td>
</tr>
<tr>
<td>BMS304</td>
<td>Research Topics in Nutrition and Dietetics</td>
<td>8</td>
</tr>
<tr>
<td>BMS310</td>
<td>Community and Public Health Nutrition</td>
<td>8</td>
</tr>
<tr>
<td>BMS311</td>
<td>Nutrients and Metabolism</td>
<td>8</td>
</tr>
<tr>
<td>BMS312</td>
<td>Research in Human Nutrition</td>
<td>8</td>
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<tr>
<td>BMS341</td>
<td>Clinical Biomechanics</td>
<td>8</td>
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<tr>
<td>BMS342</td>
<td>Advanced Exercise Physiology</td>
<td>8</td>
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<tr>
<td>BMS344</td>
<td>Cardiorespiratory Physiology</td>
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<tr>
<td>BMS345</td>
<td>Advanced Topics in Pathophysiology</td>
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<tr>
<td>BMS346</td>
<td>Motor Control and Dysfunction</td>
<td>8</td>
</tr>
<tr>
<td>BMS352</td>
<td>Fundamentals of Neuroscience</td>
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</table>

*** Pre-requisite 30 credit points of 200-level BMS subjects and permission of the subject co-ordinator.

### 400-Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BND433</td>
<td>Communication in Health Care Practice</td>
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<tr>
<td>BMS401</td>
<td>Honours</td>
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<tr>
<td>BMS402</td>
<td>Joint Honours in Biomedical Science and another Discipline</td>
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### Chemistry

#### 100-Level

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<th>Course Title</th>
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<tbody>
<tr>
<td>CHEM101</td>
<td>Chemistry 1A: Introduction to Physical and General Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM102</td>
<td>Chemistry 1B: Introduction to Organic and Physical Chemistry</td>
<td>6</td>
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<tr>
<td>CHEM104</td>
<td>Chemistry 1D (Introductory Chemistry)</td>
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<tr>
<td>CHEM105</td>
<td>Chemistry 1E (Introductory Chemistry)</td>
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#### 200-Level

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<tr>
<td>CHEM211</td>
<td>Inorganic Chemistry II</td>
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<tr>
<td>CHEM212</td>
<td>Organic Chemistry II</td>
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<tr>
<td>CHEM213</td>
<td>Physical Chemistry II</td>
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<tr>
<td>CHEM214</td>
<td>Analytical and Environmental Chemistry</td>
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#### 300-Level

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<tr>
<td>CHEM311</td>
<td>Inorganic Chemistry III</td>
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<td>CHEM314</td>
<td>Instrumental Analysis</td>
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<td>CHEM320</td>
<td>Biological Chemistry</td>
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<td>CHEM321</td>
<td>Organic Synthesis and Reactivity</td>
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<td>CHEM327</td>
<td>Environmental Chemistry</td>
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<td>CHEM330</td>
<td>Medicinal Chemistry</td>
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<tr>
<td>CHEM340</td>
<td>Chemistry Laboratory Project</td>
<td>8</td>
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<td>CHEM350</td>
<td>Principles of Pharmacology</td>
<td>8</td>
</tr>
<tr>
<td>CHEM364</td>
<td>Molecular Structure and Spectroscopy</td>
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### Communication Studies

#### 100-Level

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<tbody>
<tr>
<td>CCS 105</td>
<td>Introduction to Communication and Cultural Studies</td>
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#### 200-Level

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CCS207</td>
<td>Signs of Power: Culture and Representation</td>
<td>8</td>
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<tr>
<td>CCS213</td>
<td>Audiences and Readers</td>
<td>8</td>
</tr>
<tr>
<td>CCS215</td>
<td>Race, Gender, Colonialism: Studies in Australian Culture</td>
<td>8</td>
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<tr>
<td>CCS217</td>
<td>Film Form and Style</td>
<td>8</td>
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<tr>
<td>CCS219</td>
<td>Australian Screen</td>
<td>8</td>
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<td>CCS221</td>
<td>Critical Cultural Practice</td>
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<tr>
<td>CCS223</td>
<td>Introduction to Publishing Studies: Print</td>
<td>8</td>
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<tr>
<td>CCS225</td>
<td>Introduction to Electronic Publishing</td>
<td>8</td>
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#### 300-Level

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<tbody>
<tr>
<td>CCS330</td>
<td>The Practices of Everyday Life</td>
<td>8</td>
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<tr>
<td>CCS333</td>
<td>Popular Genres</td>
<td>8</td>
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<tr>
<td>CCS334</td>
<td>Technologies of the Body</td>
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<tr>
<td>CCS335</td>
<td>Electronic Cultures</td>
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<tr>
<td>CCS337</td>
<td>Hollywood and American Culture</td>
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<tr>
<td>CCS339</td>
<td>Hollywood and the Globalisation of Culture</td>
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<tr>
<td>CCS341</td>
<td>Screen Studies Advanced Seminar</td>
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<tr>
<td>CCS348</td>
<td>Television, Globalisation and Cultural Identity</td>
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<td>CCS351</td>
<td>Semiotics and Communication</td>
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<tr>
<td>CCS352</td>
<td>Flashpoints: Contestations in Contemporary Australian Culture</td>
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<tr>
<td>CCS357</td>
<td>Television Cultures</td>
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</table>

**Community and Environment**

(The following two subjects are only available to students enrolled at the Shoalhaven and Moss Vale Campuses, Bega and Batemans Bay Education Access Centres)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tr>
<td>ARTS112</td>
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<tr>
<td>ARTS113</td>
<td>Society and Representation</td>
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**Computer Science**

<table>
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<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CSCI101</td>
<td>Introduction to Information Technology A</td>
<td>6</td>
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<td>CSCI102</td>
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**100-Level**

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<td>CSCI123</td>
<td>Java Programming and the Internet</td>
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<td>Programming: The C Family and Unix</td>
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<td>Development Methods &amp; Tools</td>
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<td>CSCI212</td>
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General Schedule

Creative Arts

Some subjects listed in the Creative Arts Schedule are available under the General Schedule to students enrolled in degrees other than the BCA degree. However, quotas apply to all Creative Arts subjects and students enrolled in the BCA will be given first preference. Places for students enrolled in other degree programs will therefore be extremely limited. Enrolment is also subject to audition and other pre-requisite criteria as stated in the Creative Arts Schedule, and requires the specific approval of the Sub-Dean of the Faculty of Creative Arts.

Economics

100-Level

ECON101 Macroeconomic Essentials for Business 6
ECON111 Introductory Microeconomics 6
ECON121 Quantitative Methods I 6
ECON122 Quantitative Methods II 6

200-Level

ECON205 Macroeconomic Theory and Policy 8
ECON207 Economic Policy 8
ECON208 Gender, Work and the Family 8
ECON215 Microeconomic Theory and Policy 8
ECON216 International Trade Theory and Policy 8
ECON221 Econometrics 8
ECON227 The Creative Economy: Technology Innovation and Policy A 6
ECON228 Quantitative Analysis for Decision Making 8
ECON229 The Creative Economy: Technology Innovation and Policy B 8
ECON230 Quantitative Analysis for Decision Making 6
ECON231 Business Statistics and Forecasting 8
ECON251 Industry and Trade in East Asia 8

300-Level

ECON301 Monetary Economics 8
ECON302 Transition Economics 8
ECON303 Economic Development Issues 8
ECON307 International Monetary Economics 8
ECON308 Labour Economics 8
ECON309 Environmental Economics 8
ECON310 Cost-Benefit Analysis 8
ECON311 Natural Resource Economics 8
ECON312 Industrial Economics 8
ECON315 Applied Microeconomics 8
ECON316 History of Economic Thought 8
ECON317 Economics of Health Care 8
ECON318 Economics of Health Care - A 6
ECON320 Economics of Small and Medium Enterprises 8
ECON322 Mathematical Economics 8
ECON327 Advanced Econometrics 8
ECON331 Financial Economics 8
ECON332 Managerial Economics and Operations Research 8
ECON333 Conflict and Co-operation 8
ECON334 Global Economics 8

400-Level

ECON421 Honours Economics 48
ECON423 Honours Econometrics 48
ECON451 Joint Honours Economics 24
Education

Faculty of Education subjects are affected by quota restrictions. Students enrolled in Faculty of Education courses, or those Bachelor of Arts students majoring in Education, will be given enrolment priority. Other students wishing to enrol in Faculty of Education subjects MUST seek advice from the relevant subject co-ordinator to avoid potential withdrawal in the event of quotas being exceeded.

Core Education Subjects

EDUF111  Education I  6
EDUF212  Education II  6

Language in Education Stream

EDUC291  Culture, Immigration & Education  8
EDUE303  Teaching Language and Literacy Through Literature in Early Childhood Years  6
EDUE304  Teaching Language Through Literature in the Primary and Middle Years  6
EDUL314  Language and Ideology  8
EDUL331  English Language: Examining Learners Problems  8
EDUL340  Materials and Technology in Second Language Teaching  8
EDUL350  Programming and Methodology in Second Language Teaching  8
EDUL360  Practicum or Project in Second Language Teaching  8
EDUT301  Research Methods  6

Equity & Sociocultural Diversity Stream

EDUC323  Curriculum and Program Evaluation  8
EDUC291  Culture, Immigration & Education  8
EDUC292  Gender and Social Justice  8
EDUL314  Language and Ideology  8
EDUE301  Issues in Aboriginal Education  6
EDUE302  Aboriginal Pedagogy  6
EDUT301  Research Methods  6

Educational Psychology & Special Education Stream

EDUC213  Educational Psychology of Typical Children  6
EDUC217  Educational Psychology of Atypical Children and Introductory Educational Measurement  6
EDUF204  Learners with Exceptional Needs  6
EDUF232  Early Intervention and Children with Special Needs  6
EDUF311  Education III  6
EDUE320  Behaviour Management (Not to count with EDUE311)  6
EDUE321  Reading Difficulties (Not to count with EDUE312)  6
EDUE411  Disability issues across the Life Span  6
EDUE412  Programming for Individuals with Moderate to Severe Disabilities  6
EDUT301  Research Methods  6

Electrical, Computer & Telecommunications Engineering

100-Level

ECTE101  Electrical Engineering 1  6
ECTE191  WWW Engineering  6
ECTE195  Design and Management  6
ECTE196  Internet Technology 1  6

200-Level

ECTE202  Circuits and Systems  6
ECTE212  Electronics and Communications  6
ECTE222  Power Engineering 1  6
ECTE233  Digital Hardware 1  6
ECTE281  Embedded Internet Systems  6
ECTE290  Fundamentals of Electrical Engineering  6
ECTE291  Internet Systems  6
ECTE292  Internet Technology 2  6
## General Schedule

**300-Level**

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<td>Electronics</td>
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<td>ECTE323</td>
<td>Power Engineering 2</td>
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<td>ECTE333</td>
<td>Digital Hardware 2</td>
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<td>ECTE344</td>
<td>Control Theory</td>
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<td>ECTE363</td>
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<td>ECTE494</td>
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**Engineering**

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<td>Professional Engineers and the Management of Technology</td>
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<td>ENGG153</td>
<td>Engineering Materials</td>
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<td>Introduction to Design and Innovation</td>
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**200-Level**

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**English Language Studies**

Please refer to Modern Languages

**English Studies**

**100-Level**

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<td>Contemporary Writing in Australia</td>
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<td>ENGL117</td>
<td>Forms of the Imagination</td>
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<td>ENGL120</td>
<td>An Introduction to Literature and Screen Studies</td>
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<td>ENGL121</td>
<td>Text and Gender</td>
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<td>ENGL199</td>
<td>Understanding Literary Techniques</td>
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<td>English Renaissance Literature and Culture</td>
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<td>Romantics &amp; Victorians: English Literature From 1790-1900</td>
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<td>ENGL230</td>
<td>Page to Stage: Modes of Performance</td>
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<td>ENGL231</td>
<td>Australian Drama and Theatre</td>
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<td>Fantasy and Children's Literature</td>
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<td>Children's Literature in Australia</td>
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<td>Chaucer</td>
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<td>Nineteenth Century Australian Literary Culture</td>
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<td>English and the Empire</td>
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<td>The Vikings: Old Norse Culture, Language and Literature</td>
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<td>Women in Society: Images and Representation</td>
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<td>Theatre in English Since 1968</td>
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<td>Modern Drama</td>
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<td>Sex, Power &amp; Chivalry: Medieval to Modern Literature</td>
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<td>Twentieth Century Women Writers</td>
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<td>Comparative Australian/Canadian Writing</td>
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<td>Fantasy and Popular Fiction</td>
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<td>Fourteenth Century Literature</td>
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<td>Contemporary Australian Drama</td>
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<td>Turning Points: Selected Post-Colonial Fiction</td>
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<td>Nineteenth-Century Women Writers</td>
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<td>Studies in Decolonising Literatures</td>
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<td>ENGL374</td>
<td>Novel into Film</td>
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<td>The Vikings - Old Norse Culture, Language and Literature Advanced</td>
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### French

Please refer to Modern Languages.

### Geosciences

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<td>Planet Earth</td>
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<td>GEO112</td>
<td>Physical Environments</td>
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<td>GEO142</td>
<td>The Human Environment: Problems and Change</td>
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#### 200-Level

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<td>Soils, Landscape and Hydrology</td>
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<td>GEO217</td>
<td>Field Techniques in Earth Sciences</td>
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<td>GEO219</td>
<td>The Earth in Crisis</td>
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<td>GEO220</td>
<td>Climate and Natural Hazards</td>
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<td>GEO222</td>
<td>Biogeography</td>
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<td>GEO231</td>
<td>Environmental Impact of Societies</td>
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<td>Environmental Prehistory of Australia</td>
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<td>Remote Sensing of the Environment</td>
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<td>Living in Cities</td>
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<td>Rural Australia: Economy, Community and Environment</td>
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<td>A Hungry World: Food Resources and the World Economy</td>
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<td>Introduction to Oceanography</td>
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<td>Marine Sediments and Fossils</td>
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<td>Dynamic Earth</td>
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<td>GEO305</td>
<td>Field Geology II</td>
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<td>GEO307</td>
<td>Mineral Resources</td>
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<td>Field Studies in Physical Geography</td>
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<td>GEO321</td>
<td>Fluvial Geomorphology, Sedimentology and River Management</td>
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<tr>
<td>GEO331</td>
<td>Environmental Management and Decision-Making</td>
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<td>GEO334</td>
<td>Environmental Prehistory of Australia</td>
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<td>GEO339</td>
<td>Geographic Information Systems</td>
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<tr>
<td>GEO347</td>
<td>Northern Neighbours: Economic and Social Change in the Asia-Pacific Rim</td>
<td>8</td>
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<td>GEO348</td>
<td>Cultural Landscapes</td>
<td>8</td>
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<tr>
<td>GEO349</td>
<td>Population, Health and Environment</td>
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<tr>
<td>GEO381</td>
<td>Directed Studies in Geosciences A</td>
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<td>GEO382</td>
<td>Directed Studies in Geosciences B</td>
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<td>Global Environmental Change</td>
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<td>Coastal Environments: Process and Management</td>
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### General Schedule

#### History & Politics

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<tr>
<td>ARTS112 People and Place</td>
<td>ARTS211 Social Science Perspectives on Health and Illness</td>
<td>ASIA399 Special Topics in South East Asian Studies</td>
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<td>AUST101 Australian Studies: Cultures and Identities</td>
<td>ASIA299 Special Topics in South East Asian Studies</td>
<td>AUST300 Twentieth Century Australian Literary Culture</td>
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<td>HIST107 Plunder, Profit and Progress in Empires and Colonies</td>
<td>HIST205 Ancient History (Greece and Rome)</td>
<td>HIST315 Comparative Settler Capitalism</td>
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<td>HIST121 Dispossessed, Diggers and Democrats: Australia 1788 to 1888</td>
<td>HIST218 Consensus, Conflict and Culture: Australia 1888-1988</td>
<td>HIST325 Theory and Method of History</td>
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<td>HIST124 The Cold War and After</td>
<td>HIST232 Russia in War and Revolution</td>
<td>HIST334 Regional History</td>
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<td>POL111 Australian Politics</td>
<td>HIST275 The Growth of the United States, 1865-1898</td>
<td>HIST336 Australians and War, 1914-1972</td>
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<td>POL121 Politics in a Globalising World</td>
<td>HIST276 America's Rise to Globalism Since 1919</td>
<td>HIST338 Advanced Topics in the History of Science: 1500-1800</td>
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<td>POL141 Change and Debate in Contemporary Australian Politics</td>
<td>HIST286 From Ancient Kingdoms to Colonies: Southeast Asia, 1500-1870</td>
<td>HIST360 War, Death and Society: Europe 1350-1650</td>
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<td>HIST287 Southeast Asian Transformation</td>
<td>HIST361 Fascism and the Authoritarian Right in Twentieth Century Europe</td>
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<td>HIST288 Religion and Military Rule in Southeast Asia</td>
<td>HIST363 Revolutions in World History</td>
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<td>HIST291 Film and History</td>
<td>HIST379 Culture and Identity in Indonesian History, 1870-2001</td>
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<td>POL211 Democracy in Theory and Practice</td>
<td>HIST380 Twentieth Century Australian Literary Culture</td>
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<td>POL216 Politics in the USA</td>
<td>HIST388 Vietnam in War and Revolution: Indo-Chinese Societies 1860-1980</td>
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<td>POL222 Australian Public Policy</td>
<td>HIST394 Commodification History</td>
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<td>POL224 Politics and the Media</td>
<td>POL314 Power and the Modern State</td>
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<td>POL225 International Relations: An Introduction</td>
<td>POL315 The Politics of Post Communist Countries</td>
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<td>POL226 Australian Political Thought</td>
<td>POL317 Politics in the South Pacific</td>
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<td>POL290 Women in Society: Productive and Reproductive Labour</td>
<td>POL319 Political Economy in the New Millennium</td>
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<td>POL323 North and South: Approaches to Relations Between Advanced, Industrialising and Less Developed Countries</td>
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<td>POL324 Culture and Politics</td>
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<td>POL368 Protest and Power in America: The Sixties</td>
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General Schedule

Indigenous Health

200-Level
- NURS240 Current Services in Aboriginal Health 6
- NURS242 Functional Community Structures 6
- NURS243 Special Topic (Workplace Analysis) 6

300-Level
- NURS341 Special Topic 8
- NURS343 Community Health Development: Theory & Practice* 0
- NURS344 Community Health: Theory, Research & Practice* 8
- NURS345 Equivalent to NURS327 Health and Human Ecology* 6

*New/ Amended subjects undergoing approval

These subjects are offered on weekends in block format.

Industrial Relations

100-Level
- COMM100 Introduction to Employment Relations 6
- ECON140 Industrial Relations B: Wage Determination in Australia 6
- ECON142 Industrial Relations A 6

200-Level
- ECON240 Industrial Relations B: Wage Determination in Australia 8
- ECON242 Industrial Relations A 8
- ECON243 Work and Employment Relations 8

300-Level
- ECON308 Labour Economics 8
- ECON340 Comparative Studies in Industrial Relations 8
- COMM341 International and Comparative Employment Relations 8
- ECON342 Research Topics in Industrial Relations 8
- ECON348 Employers and Industrial Relations 8
- ECON352 Negotiation, Advocacy and Bargaining 8

400-Level
- ECON422 Honours Industrial Relations 48
- COMM450 Honours Employment Relations 48
- ECON452 Joint Honours in Industrial Relations 24

Information Systems

100-Level
- BUSS102 Computer Systems 6
- BUSS110 Introduction to Business Information Systems 6
- BUSS111 Business Programming I 6

200-Level
- BUSS201 User-Centered Business Programming 6
- BUSS208 Computer Systems Management 6
- BUSS211 Systems Analysis and Design 6
- BUSS212 Database Management Systems 6
- BUSS213 Multimedia in Organisations 6
- BUSS214 Business Programming II 6
- BUSS215 Business Programming III 6

300-Level
- BUSS311 Advanced Database Management Systems 6
- BUSS312 Distributed Information Systems 6
- BUSS315 Knowledge-Based Information Systems 6
- BUSS316 Information Systems Development Methodologies 6
- BUSS317 Business Programming IV 6
- BUSS318 Information Systems Project 6
### General Schedule

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### Information & Communication Technology

#### 200-Level

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<td>Information Technology and Citizens' Rights</td>
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<td>IACT202</td>
<td>The Structure and Organisation of Telecommunications</td>
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<td>IACT302</td>
<td>Corporate Network Planning</td>
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<td>IACT303</td>
<td>World Wide Networking</td>
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### Italian

Please refer to Modern Languages

### Japanese

Please refer to Modern Languages

### Legal Studies

#### 100-Level

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#### 300-Level

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<td>Children, Families and the Law</td>
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<td>Criminal Law and the Process of Justice</td>
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<td>Administrative Law</td>
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<td>LAW315</td>
<td>Taxation Law</td>
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<td>Occupational Health &amp; Safety Law</td>
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<td>LAW317</td>
<td>E-Commerce Law*</td>
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<td>LAW330</td>
<td>Law of Employment</td>
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<td>LAW331</td>
<td>Intellectual Property Law</td>
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<td>Labour Relations Law</td>
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<td>LAW335</td>
<td>Anti-Discrimination Law</td>
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<tr>
<td>LAW342</td>
<td>Law and Industrial Development*</td>
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<td>LAW343</td>
<td>International Law</td>
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<td>LAW344</td>
<td>Indigenous Peoples and Legal Systems</td>
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<td>Media Law</td>
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<td>LAW349</td>
<td>Feminism and Law*</td>
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<td>LAW352</td>
<td>Advanced Taxation Law*</td>
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<td>LAW360</td>
<td>Foreign Investment Law in the People's Republic of China*</td>
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<td>LAW364</td>
<td>Consumer Protection and Business Regulation*</td>
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<td>LAW366</td>
<td>Selected Issues in Legal Studies*</td>
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<td>LAW370</td>
<td>An Introduction to Civil Law in the People's Republic of China*</td>
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400-Level
The offering of the Honours subjects is dependent on availability of staff and sufficient student enrolments. The session a particular subject will be offered depends on the full time and part time composition of the enrolments and availability of staff.

LAW453  Studies in Taxation*  6
LAW463  Jurisprudence*  6
LAW464  Studies in Business Law*  6
LAW465  Studies in Administrative Law*  6
LAW466  Studies in Industrial Law*  6
LAW467  Studies in Trade Practices and Consumer Law*  6
LAW487  Special Topic in Law-A  6
LAW488  Special Topic in Law-B  6
LAW493  Research Essay*  12

* not available in 2002

Linguistics
Please refer to Modern Languages

Management

100-Level
COMM100  Introduction to Employment Relations  6
MGMT110  Introduction to Management  6
MGMT102  Business Communications  6

200-Level
MGMT200  Management and Electronic Business  6
MGMT201  Organisational Behaviour  6
MGMT202  Management of Change  6
MGMT204  Government Regulation and International Business  6
MGMT205  Recruitment and Selection  6
MGMT206  Managing Human Resources  6
MGMT215  Small Business Management  6
MGMT216  Operations Management  6
MGMT218  Competitive Analysis  6
MGMT220  Organisational Studies  6

300-Level
MGMT301  Managing Across Cultures  6
MGMT302  Business in Europe  6
MGMT303  Development of Modern Business  6
MGMT304  Expert Management  6
MGMT305  Business in Asia  6
MGMT306  Business in Australia  6
MGMT308  Introduction to Management for Professionals A  6
MGMT310  Introduction to Management for Professionals B  8
MGMT314  Strategic Management  6
MGMT321  Occupational Health and Safety Management  6
MGMT322  Training and Development  6
COMM300  Innovation and Electronic Commerce  6
MGMT332  Enterprise and Innovation  6
COMM341  International and Comparative Employment Relations  8
MGMT350  Total Quality Management  6
MGMT351  Business Ethics  6
MGMT389  International Business Management  6
MGMT391  Work Experience and Report  12
MGMT392  Case Study  12
MGMT393  Special Topic A  6
MGMT394  Special Topic B  6
### General Schedule

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<td>MGMT404</td>
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<td>MGMT405</td>
<td>Joint Honours in Management</td>
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<td>MGMT406</td>
<td>Honours Human Resource Management</td>
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<td>MGMT407</td>
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<td>MGMT426</td>
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<td>MGMT429</td>
<td>Advanced Topics in Management (Honours)</td>
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<td>COMM450</td>
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**Marketing**

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<td>200-Level</td>
<td>MARK213</td>
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<td>MARK217</td>
<td>Consumer Behaviour</td>
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<td>MARK239</td>
<td>Information for Marketing Decisions</td>
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<td>MARK240</td>
<td>Marketing and Consumer Behaviour in East and South-East Asia</td>
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<td>MARK270</td>
<td>Services Marketing</td>
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<td>MARK301</td>
<td>Marketing on the Internet</td>
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<td>MARK317</td>
<td>Business to Business Marketing</td>
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<td>MARK319</td>
<td>Applied Marketing Research</td>
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<td>MARK333</td>
<td>Advertising and Promotions Strategy</td>
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<td>International Marketing</td>
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<td>MARK344</td>
<td>Marketing Strategy</td>
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<td>MARK356</td>
<td>New Product Marketing</td>
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<td>Tourism Marketing</td>
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<td>MARK397</td>
<td>Retail Marketing Management</td>
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<td>MARK450</td>
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**Mathematics & Applied Statistics**

To satisfy the requirements for a major study in Mathematics, a student shall satisfactorily complete (at a grade of Pass or better) any MATH or STAT subjects listed below, to a total of at least 48 credit points; of which at least 18 credit points must be at 200 level and at least 24 credit points must be at 300 level.

To satisfy the requirements for a major study in Applied Statistics, a student shall satisfactorily complete (at a grade of Pass or better) any MATH or STAT subjects listed below, to a total of at least 48 credit points; of which at least 18 credit points must be at 200 level and must include STAT231 and STAT232; and at least 24 credit points must be for 300 level STAT subjects.

Students are welcome, and encouraged, to consult an academic adviser from the School of Mathematics and Applied Statistics about their choice of subjects. For full details about pre-requisites etc, please refer to the Subject Database. All subjects may not be offered every year.

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<td>STAT131</td>
<td>Understanding Variation and Uncertainty</td>
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200-Level
MATH201  Multivariate and Vector Calculus
MATH202  Differential Equations II
MATH203  Linear Algebra
MATH204  Complex and Group Theory
MATH212  Applied Mathematical Modelling II
MATH222  Continuous and Finite Mathematics
STAT231  Probability and Random Variables
STAT232  Estimation and Hypothesis Testing

300-Level
MATH302  Differential Equations III
MATH305  Partial Differential Equations
MATH312  Applied Mathematical Modelling III
MATH313  Industrial Mathematical Modelling
MATH314  Computer Modelling of Beach and Ocean Systems
MATH316  Applied Dynamics
MATH317  Financial Calculus and Logistics
MATH321  Numerical Analysis
MATH322  Algebra
MATH323  Topology and Chaos
MATH324  Analysis
MATH371  Special Topics in Applied Mathematics 3
MATH372  Special Topics in Mathematical Analysis 3
STAT304  Operations Research and Applied Probability
STAT332  Multiple Regression and Time Series
STAT333  Statistical Inference and Multivariate Analysis
STAT335  Sample Surveys and Experimental Design
STAT373  Special Topics in Applied Statistics 3

400-Level
MATH401  Mathematics IV (Honours)
STAT401  Statistics IV (Honours)
INFO411  Data Mining and Knowledge Discovery
INFO412  Maths for Cryptography

Other subjects available
Other MATH/STAT subjects available are listed below, but note that these subjects cannot be counted in a Major in Mathematics or Applied Statistics.
MATH122  Probability and Logic
MATH141  Mathematics 1C Part 1
MATH142  Mathematics 1C Part 2
MATH161  Mathematics 1E Part 1
MATH162  Mathematics 1E Part 2
MATH151  General Mathematics 1A
MATH283  Mathematics 2E for Engineers Part 1
STAT151  Introduction to the Concepts and Practice of Statistics
STAT252  Statistics for the Natural Sciences
PSYC354  Design and Analysis

Modern Languages

100-Level
ELS 151  English For Academic Purposes: A Second Language Perspective  6
ELS 152  English Language Studies 1  6
ELS 161  English For Academic Purposes: A First Language Perspective  6
EURO110  France and Italy; A Cultural and Historical Framework  6
FREN151  French IA Language  6
FREN152  French IB Language  6
ITAL151  Italian IA Language  6
ITAL152  Italian IB Language  6
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<td>Japanese Studies for Business Purposes</td>
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<td>LANG110</td>
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**Philosophy**

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**Physics**

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Politics

Please refer to History and Politics

Psychology

100-Level

Refer to Schedule HS3 under the Faculty of Health and Behavioural Sciences for Pre-requisites, Co-requisites and Remarks

PSYC101 Introduction to Behavioural Science 6
PSYC121 Foundations of Psychology A 6
PSYC122 Foundations of Psychology B 6
PSYC123 Theory, Design and Statistics in Psychology 6

200-Level

PSYC216 Psychology of Physical Activity 6
PSYC231 Personality 6
PSYC232 Research Methods and Statistics 6
PSYC234 Biological Psychology and Learning 6
PSYC235 Introduction to Psychological Assessment 6
PSYC236 Cognition and Perception 6
PSYC241 Developmental and Social Psychology 6

1. Students intending to complete a major in Psychology only, must complete PSYC232, plus 3 Psychology electives. An elective must be a 200-level subject excluding PSYC216 and must include at least one of each of the following groups:
   - Group A - PSYC231, PSYC241
   - Group B - PSYC234, PSYC236.

2. Students wishing to proceed to honours Psychology must complete PSYC232 and PSYC235 together with 3 electives selected from the following PSYC231, PSYC241, PSYC234, PSYC236. General Pre-Req - 24 credit points of Psychology at 200-level (excluding PSYC216).

300-Level

PSYC315 Psychology of Abnormality 8
PSYC317 Advanced Learning 8
PSYC318 Individual Differences Throughout the Lifespan 8
PSYC345 Advanced Cognition 8
PSYC347 Assessment and Intervention 8
PSYC34 History and Metatheory of Psychology 8
PSYC349 Visual Perception 8
PSYC350 Social Behaviour & Individual Differences 8
PSYC352 Psychophysiology 8
PSYC354 Design and Analysis 8

Students intending to complete three years of Psychology or intending to proceed to Honours refer to Schedule HS3.

400-Level

Note: Entry to the Honours year or to honours subjects shall be determined by the Academic Senate on the advice of the Departmental Head. For specific course requirements refer to Description of Subjects section. In the event a student wishes to take a double major, i.e. major in another subject as well as psychology, and still proceed to take Honours in Psychology, the minimum number of credit points accumulated over 200- and 300-levels of Psychology will be 60: provided that at least 10 credit points of 200- and 300-level non-psychology subjects being taken are recognised as appropriate and closely related to psychology, in which case the credit points for these subjects may be added to the 60 of psychology to make the necessary 70.
### Public Health

**100-Level**
- PHN103 Introduction to Public Health* 6

**200-Level**
- PHN203 Current Issues in Food and Nutrition 6
- PHN205 Public Health: Issues and Concepts** 6

**300-Level**
- PHN330 Public Health Research Methods ** 8
- PHN331 Public Health Research in Practice ** 8

**400-Level**
- PHN401 Honours 48

*Refer Department
**Not on offer in 2002

### Science, Technology & Society

**100-Level**
- STS100 Social Aspects of Science and Technology 6
- STS103 Social Aspects of Science and Technology 6
- STS112 The Scientific Revolution: History, Philosophy & Politics of Science 6
- STS116 Environment in Crisis: Technology and Society 6
- STS117 The Scientific Revolution: History, Philosophy and Politics of Science 6
- STS120 Technology in Society: East and West 6
- STS128 Computers in Society 6

**200-Level**
- STS200 Social Aspects of Science and Technology 8
- STS203 Social Aspects of Science and Technology 8
- STS212 The Scientific Revolution: History, Philosophy & Politics of Science 8
- STS215 Globalisation: Science, Technology and Progress 8
- STS216 Environment in Crisis: Technology & Society 6
- STS217 The Scientific Revolution: History, Philosophy and Politics of Science 8
- STS218 Environment in Crisis: Technology and Society 8
- STS220 Technology in Society: East and West 8
- STS221 Technology in Society: East and West 6
- STS223 The Politics of Medicine and Health 8
- STS228 Computers in Society 8
- STS229 Scientific and Technological Controversy 8
- STS235 The Politics of Risk 8
- STS238 Changing Images of Nature and the Environment 8
- STS240 Technological Change, Popular Culture and New Media 8
- STS241 Technological Change, Popular Culture and New Media 6
- STS250 From Molecular Genetics to Biotechnology 8
- STS260 Technology and Body Politics 8
- STS268 Science and the Media 8

**300-Level**
- STS300 The Environmental Context 8
- STS306 Special Topics in the Social and Policy Aspects of Engineering 6
- STS315 Globalisation: Science, Technology and Progress 8
- STS323 The Politics of Medicine and Health 8
- STS329 Scientific and Technological Controversy 8
- STS335 The Politics of Risk 8
- STS340 Technological Change, Popular Culture and New Media 8
- STS350 From Molecular Genetics to Biotechnology 8
- STS360 Technology and Body Politics 8
- STS376 The Politics of Risk 8
- STS388 Science and the Media 8
- STS399 Research Topics in Science, Technology and Society Studies 8
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