The University of Newcastle

One of Australia's leading universities...

The University of Newcastle is one of Australia's leading universities. It is an exceptional achievement in research with international reputation for expertise in innovative approaches to teaching and learning. With campuses in both the Central Coast and Hunter Regions of New South Wales, it serves around a million people. The student population is approximately 19,000.

The University has eleven faculties which provide a comprehensive and diverse range of courses across all of the disciplines, and a commitment to quality in all of the programs offered. The University's Faculties include: Arts and Social Science; Architecture, Building and Design; Central Coast; Economics and Commerce; Education; Engineering; Law; Medicine and Health Sciences; Music; Nursing; Science and Mathematics.

Undergraduate students at the University of Newcastle are offered excellent facilities. The five libraries of the University house a collection of more than 1 million volumes of books, journals, microfilms, audiovisual materials, and CD Rom installations and subscribe to over 9,000 serial files. The University of Newcastle is committed to providing adaptive technology to enable disabled students to access library resources and the World Wide Web.

How to use this book

...to find course information

If you know the name of the course

• turn to the alphabetical list of courses on page 25 to find the page reference for the course you are interested in.

If you do not know the name of the course

• turn to the alphabetical list of courses on page 25 and browse through this list to locate the course most likely to match your area of interest.

...to find subject information

If you know the subject and subject code for that subject,

• turn to Part C: Subject Descriptions and locate the subject under the alpha list of codes.

If you know only the course that you are interested in,

• locate the course by referring to the alpha list of courses on page 25;

• consult the course entry for the subjects required or offered in that course;

• use the codes identified within the course entry to locate the subject description in the alpha listing of subjects in Part C.

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Part B: Course Information

Details of all undergraduate courses listed in alphabetical order

Part C: Subject Descriptions

Details of all subjects offered within the University's undergraduate courses listed in alphabetical order of subject code.
A Glossary of Common Terms

This Glossary is designed to assist you with some university jargon. Where the definition refers to other words defined in this Glossary, the word will appear in UPPERCASE. This Glossary is designed to assist you as far as possible in your use of this Handbook, but should not be read as a replacement for the legislation of the University.

100 Level — Used to describe a subject that is at a basic or introductory level. The SUBJECT CODE will have a number between 100 and 199 eg GEO2101. In the first year of your course you will usually undertake only subjects at the 100 level. Part-time students will undertake their 100 Level subjects over two years rather than one.

200 Level — Usually used to describe a subject that is at an intermediate level and requires some prior knowledge in the area. The SUBJECT CODE will have a number between 200 and 299 eg HUM2101. You would generally undertake subjects at the 200 level in the second year of your course. It is possible, however, to take 200 level subjects in 3rd or 4th year. Part-time students will undertake their 200 Level subjects over two years rather than one.

300 Level — Usually used to describe a subject that is at an advanced level and requires substantial prior knowledge in the area. The SUBJECT CODE will have a number between 300 and 399 eg COMP311. You would generally undertake subjects at the 300 level in the third year of your course. It is possible, however, to take 300 level subjects in 4th or 4th year. Part-time students will undertake their 300 Level subjects over two years rather than one.

Academic Senate — the peak academic decision-making body of the University, comprising 44 members. Some of these members hold office by virtue of their positions in the University (e.g., the Vice-Chancellor, and the DEANS of the eleven FACULTIES are all ex officio members: The other members are elected, with equal representation from each of the Faculties. There is provision for two UNDERGRADUATE student members and one POSTGRADUATE student member. The Academic Senate has delegated authority to approve subjects and is responsible for advising the University governing body—the COUNCIL, on all academic aspects of the University’s affairs. This includes approval of COURSES, and RULES governing the administration of courses.

Academic Staff Member — a member of the staff of the University who is employed to undertake teaching and/or research in a DEPARTMENT or SCHOOL within a FACULTY; or in another academic organisational unit with teaching/research functions.

Academic Year — In 2000 the following dates have been approved for the standard 2001 academic year. These apply to all coursework COURSES except the Bachelor of Medicine, Bachelor of Laws/Diploma of Legal Practice, and the Graduate School of Business.

Semester 1 commences Monday 26 February 2001
Semester 1 recess Friday 13 April - Friday 20 April
Semester 1 concludes Friday 8 June 2001
Mid Year Examinations Monday 11 June - Friday 29 June
Vacation Monday 2 July - Friday 13 July 2001
Semester 2 commences Wednesday 16 July 2001
Semester 2 recess Monday 24 September - Friday 5 October 2001
Semester 2 concludes Friday 2 November 2001
End of Year Examinations Monday 5 November - Friday 23 November 2001

Administrative Staff Member — a member of the staff of the University who is employed to administer an area of the University’s operations which is not the responsibility of the ACADEMIC STAFF eg. Enrolment, GRADUATION or EXAMINATION.

Annual WAM — is the weighted average mark of the subjects taken by students enrolled in courses offered by the Faculty of Engineering in an academic calendar year. For details of the formula used to calculate the annual WAM, refer to entry under WAM.

Assessment — the generic term to describe the various means which the University uses to measure your grasp of a particular SUBJECT. Assessment may take many forms eg. essays, take home EXAMINATIONS; open book examinations; end-of-semester examinations; projects requiring the preparation of a substantial report (dissertation); quizzes; participation in the subject (eg. tutorial presentations); laboratory reports; performance (in music, dance); creation of a work of art or design; writing of a software program. Some forms of assessment will require you to contribute to the outcome of a group activity. The University expects ACADEMIC STAFF to provide students with accurate subject descriptions (which include the forms of assessment, and their respective weightings) within two weeks of the commencement of the SEMESTER in which the subjects are offered.

Assistant Dean — some FACULTIES have an Assistant Dean who assists the DEAN in exercising specific responsibilities for student welfare and other student affairs.

Assistant Registrar — is the most senior member of ACADEMIC STAFF who administers an area of the University’s operations which is the responsibility of the DEAN. The Assistant Registrar may also have an Assistant Dean who assists the Assistant Registrar in the administration of that area. The Assistant Dean is elected by the academic members of the relevant DEPARTMENT Council.

Bachelor Degree — a degree program with a period of study of at least three years of full-time study or the equivalent of at least six years of part-time study. The Bachelor Degree is the highest degree awardable in most academic disciplines. It is normally awarded on the basis of the successful completion of a three-year course of study at a higher education institution, although in some cases, it may be based on previous tertiary study. The Bachelor Degree may be awarded with Honours, which is an additional one year of study and is normally only awarded to students who achieve a high level of performance in their studies.

Credit — if you have previously completed a course at a higher education institution or TAFE college, you may apply for advanced credit towards your COURSE. In some cases this will take the form of specified credit, i.e., credit in a particular SUBJECT. In other cases, unspecified credit may be granted, i.e., a specified number of CREDIT POINTS which are not linked to specified subjects.

Credit Points — these are the units of ‘currency’ for all coursework subjects. Each SUBJECT is given a credit point value and each COURSE requires the accumulation of a total number of credit points according to the degree pattern. A credit point is used to:

- provide you with an indication of the amount of work a subject may entail;
- define the requirements of a course;
- indicate the proportion of subjects which make up a course; and thus
- indicate the proportion of the course which you have completed and your current enrolment load.

At the UNDERGRADUATE level, one year of full-time study is equivalent to 80 credit points, and a three-year course will therefore require the completion of 240 credit points.

Dean — the chief executive officer of a FACULTY, with responsibilities for the academic and general management of that FACULTY. The Dean is chair of the FACULTY BOARD, which is the principal decision-making body in a FACULTY.

Dean of Studies — is a member of ACADEMIC STAFF who is appointed to assist students from any area of the University with grievances they may experience which they feel cannot be resolved by either self-resolution, consultation with the ASSISTANT REGISTRAR, ASSISTANT DEAN, or DEAN.

Dean of Studies — is a member of ACADEMIC STAFF responsible for the maintenance of the academic quality of courses of the University of Newcastle offered at the Central Coast Campus. Also assists students at that campus with academic related grievances they may experience which they feel cannot be resolved by self-resolution, or consultation with the relevant ACADEMIC STAFF ASSISTANT DEAN, or DEAN.

Degree — See Course.

Department — some FACULTIES are divided into Departments, which are defined by disciplines. For example, the Faculty of Arts and Social Science has twelve departments including Aboriginal Studies, Classics, Communication and Media Arts, Drama, English, History, Leisure and Tourism Studies, Linguistics, Modern Languages, Philosophy, Social Work, Sociology and Anthropology. In addition to these Departments this Faculty also includes the School of Fine Art (see Schools).

Discipline — this is both a description of a branch of learning and, within the Faculty of Medicine and Health Sciences, the description of the organisation of sub-entities into which the Schools of the Faculty are divided. In other Units which have DEPARTMENTS, a discipline is usually what defines that Department. For example, the Department of Economics includes the Business School, the Law School, the Social Science School, the Political Science School, the Philosophy School, and the School of Fine Art.

GPA — See GRADE POINT AVERAGE.

Grade — is the description of the overall assessment of performance in a SUBJECT. The following grades are used in the University of Newcastle:

- High Distinction (HD)
- Distinction (D)
- Credit (C)
- Pass (P)
- Ungraded Pass (UP)
- Fail (FT)

Withdrawn without Penalty (WW)
Not Effectively Enrolled (NE)
In addition to the above grades, a percentage mark is provided for each subject.
Not all subjects are assessed using the whole range of grades. In some instances, performance in a subject is only assessed on a Pass/Fail basis. If this is the case, then the only grades that may be recorded are: U, P/F or W/W.

The Faculty of Engineering does not award grades for its undergraduate subjects. All results are expressed as a percentage, and a WAM is then calculated.

Grade Point Average (GPA) — is the average of the GRADES you have achieved, weighted by the CREDIT POINT value of the subjects. The following formula is used to calculate GPA.

GPA = Y (GP) \( Y \) (P)
where \( G \) = grade of result in each subject and \( P \) = Credit Point value of each subject. For the purpose of calculating a GPA a numerical value is assigned to each grade: \( H = 7, D = 6, C = 5, P = 4, F = 0 \).

Graduate — a person who has satisfied the requirements of a COURSE.

Graduation — the act of being admitted to an AWARD, usually at a Graduation Ceremony.

Head of School, Department or Discipline (HOS or HD) — a member of the academic staff who is responsible for the administration of a SCHOOL, DEPARTMENT or DISCIPLINE.

Honours — this may be described as an ADDITIONAL FULL-TIME year of study for two years of PART-TIME study undertaken after graduation from a bachelor's
Academic Awards

Rules Governing Undergraduate Academic Awards

Application of Rules
1. These Rules shall apply to the undergraduate programs leading to awards of the University. Rules relating to Summer Schools should be read in conjunction with these Rules.

Definitions/Interpretation
2. In these Rules, unless the context or subject matter otherwise indicates:
   a) Academic Organisation Unit” means the unit responsible for offering a particular subject;
   b) “Award” means the bachelor’s degree for which a student is enrolled;
   c) Course means a program of study approved by the Academic Senate that leads to an award of the University;
   d) “Credit Point” (abbreviated cp) refers to the proportional amount of academic credit allotted to a subject. This term is used to:
      i) define the requirements for an award of an University;
      ii) indicate a student’s enrolment load;
   e) Dean means the Dean of a Faculty;
   f) Faculty means the faculty responsible for the course;
   g) “Faculty Board” means the Faculty Board of the Faculty responsible for a course;
   h) Head of the Academic Senate means a person approved by the Academic Senate to undertake the responsibilities of the Head of a unit offering a subject;
   i) Honours Course means a degree course offered in the form of an additional year of study (if equivalent) following the completion of a bachelor’s course;
   j) Level means the first number in the numeric component of the subject code and generally, if a student is studying at the full-time rate, implies the year (first, second or third year) in which the subject might normally be taken. Where a subject is not uniquely related to a particular year within a course structure, the relevant Faculty will assign a level to the subject;
   k) Schedule means the schedule to these Rules relevant to the award listed, under the name of the Faculty;
   l) Subject means any part of a course for which a result may be recorded;
   m) “Subject Availability List (SAL)” means the list of constructed subjects approved by the Academic Senate for offer in any particular year. Faculty Boards are responsible for approving the SAL for specific courses.

Subjects
3. (1) For the purposes of a course, a student may be classified at a level determined by the Faculty Board.
   (2) The Academic Senate will allot a subject a credit point value after considering the advice of the relevant Faculty Board.
   (3) Except in exceptional circumstances, the SAL for the University, and specific courses, will be finalised before the commencement of the re-enrolment process in any year. The President of Academic Senate has delegated authority to approve changes to the SAL which are proposed after the commencement of the re-enrolment period.

WHERE THERE IS ANY CHANGE IN THE SAL OR THE CAL, THE FACULTY BOARD MUST MAKE ALL REASONABLE PROVISION TO PERMIT STUDENTS ALREADY ENROLLED TO CONTINUE THE PROGRAM OR ADOPT AN ALTERNATIVE PROGRAM OFFERED BY THE UNIVERSITY.

Enrolment
4. A student who undertakes subjects with a load of 30 credit points or greater in a semester is deemed to be a full-time student. A student who undertakes subjects with a load of under 30 credit points in a semester is deemed a part-time student.

(1) Unless otherwise provided in the Schedule, a load of 40 credit points a semester is considered the appropriate maximum load for a full-time student. A student who wishes to undertake more than 50 credit points in any semester must obtain permission from the Dean or Registrar.

(2) A student is required to nominate a study program in each semester which conforms to the requirements of the course as prescribed by the Faculty.

(3) A student will not be permitted to enrol in any subject for credit that is substantially equivalent to one that the student has previously completed towards the same award.

Assumed Knowledge
5. (1) For progression purposes, a Faculty Board may prescribe assumed knowledge for any subject, for example, a level of achievement in a specified subject or subjects deemed necessary for successful study in subsequent subjects.

(2) Ignorance of the assumed knowledge requirements for a subject cannot be the basis of an application for special consideration against a result.

Credit
6. (1) A student may be granted credit in accordance with the credit scheme as specified in the degrees offered by the University. A student must be enrolled in a subject to which credit may be granted.

(2) The granting of such credit will be on such conditions as the Faculty Board may determine.

(3) Except as may be otherwise provided in the Schedule, a student will not be given credit for more than sixty-seven percent of the total number of credit points required to complete a three-year course or seventy-five percent for a four-year course.

Subject Requirements
7. To complete a subject successfully, a student must satisfy any published requirements, and gain a satisfactory result in the assessment items approved for the subject by the Academic Senate.

Change of Enrolment
Withdrawal from and Addition of Subject(s)
8. (1) A student may give notice to the University Secretary and Registrar of withdrawal from any subject at any time. The withdrawal shall take effect from the date of receipt by the University of such notice.

(2) A student who withdraws from a subject on or before the following date shall be deemed not to have enrolled in that subject:

   a) In the case of a semester length subject, the Higher Education Contribution Scheme Census Date for that semester; or

   b) In the case of a full year length subject, the date of first enrolment in the subject.
Interuption of Studies

Leave of Absence

11. At the end of a period of Leave of Absence the person on leave will be sent a continuing enrolment form. Failure to enrol within the period will result in the enrolment record in the course being cancelled.

Re-admission

12. A person who is absent without leave from a course may apply for re-admission to the course through the University. If successful, the applicant will be re-admitted to the course in accordance with the University's regulations.
Prior Assumed Knowledge and Essential Skills

Many subjects specify Assumed Knowledge requirements that indicate specific knowledge or background expected of students prior to their enrolment in the subject concerned. Students are expected to progress through their course in the intended order and to observe the Assumed Knowledge requirements when choosing their subjects at enrolment.

If you choose to enrol in a subject without having successfully completed the subject(s) listed as Assumed Knowledge you may place yourself at a significant disadvantage as no special consideration can be given to overcome your lack of the expected preparation.

Note that all subjects and other requirements of the course in which you are enrolled must be successfully completed to meet degree requirements. Thus, even if you successfully complete a subject without completing a subject which was listed as Assumed Knowledge you will still be required to complete the earlier subject if it is a specified part of your course.

If you have not completed all of the Assumed Knowledge specified for a subject but believe that you have knowledge or experience that would enable you to attempt the subject without disadvantage to yourself or other students in the class, you should consult the lecturer in charge of the subject, discuss your intention, and be guided by the lecturer's advice.

TAFE Credit Transfer Arrangements

The University of Newcastle's credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please visit the University's website at http://www.newcastle.edu.au/services/our authored_materials.html

The University of Newcastle and the Hunter Institute of Technology are committed to providing pathways between the two institutions. For details of the precise credit arrangements in place, see the publication "MOVING On: The Hunter Advantage" available from the University of Newcastle or the Hunter Institute of Technology.

Use of the University Computing and Communication Facilities

Set out below are the terms governing the use of University computing and communication facilities. The University may at any time revise these terms. These terms apply to all users (students, staff and others) and apply to use of both central and departmental computers. Use by you of any such facilities indicates your understanding and acceptance of these terms. If you are unsure of the meaning of any of these terms, you should seek advice from the Information and Education Services Division prior to use.

1. General

Computing and communications facilities are provided by the University for the use of staff and students. Access may be given to standalone or networked microcomputers, to workstation computers or to other computers accessible via the University's computer network.

These facilities are provided free of charge except where specific charges are levied. 90 days notice will be given of any change in such charges.

Student access is for use in association with university studies and activities related to the University.

Staff are given access for use associated with their duties. Arrangements for computer use for external work such as consulting must be negotiated and will usually be on a 'payment for use' basis.

It is expected that all users will make use of University computing and communication facilities in a manner which is ethical, lawful, effective, efficient and not to the detriment of others.

Failure to abide by the following terms will be treated as misconduct and may result in disciplinary action including denial of access to the facilities concerned. In particular, if, in the opinion of the Director, University Computing Services, the University has reason to believe that you may be denied access to computing facilities or to the University's communication network. You may also be fined and required to pay up to the full commercial rates for any use you have made.

Where these terms incorporate legal restrictions, violation may constitute a legal offence.

2. Disclaimer

The University makes available to users, both internal and external, computing and network facilities consisting of hardware and software. The University accepts no responsibility for any damage to or loss of data arising directly or indirectly from use of these facilities or in any consequential loss or damage. The University makes no warranty, express or implied regarding the computing services offered, or their fitness for any particular purpose.

The University cannot guarantee the confidentiality of any information stored on any University computer or transmitted through its network. For the purpose of managing the resources, it may be necessary for the University to monitor files and usage.

The University's liability in the event of any loss or damage shall be limited to the fees and charges paid to the University for the use of the computing facilities which resulted in the loss or damage.

3. Conditions

1. You may use only those facilities which have been authorised for your use. If access is protected by a password, you are not to make this password available to others. You may not use any account set up for another user, nor may you attempt to find out the password of another user. This applies both to facilities within the University and to any accessible using the University's network.

2. You may only use authorised facilities for authorised purposes. For example, facilities made available for teaching may not be used for private gain.

3. You must be aware of the law of copyright as it affects computer software. Software must not be copied except with the express permission of the copyright owner.

4. You may not attempt to copy information belonging to other users (whether they be staff, students or other users) without their express permission.

5. You may not attempt to interfere with the operation of the University's computers or any other facilities accessed by use of the University's computers or network.

6. You may not attempt to subvert the security of any of the University's computing facilities or any other accessible by use of the University's facilities.

7. You may not use the University's computing facilities to send obscene, offensive, harassing or illegal messages.

8. You may grant access to your own files by other users by setting appropriate protection.

9. You may access computing and communications facilities on other sites only with their permission and in a manner consistent with these terms.

10. You must, on request by any authorised member of staff, produce evidence of identity for example by student card or when using University computing facilities.

11. You are required to inform the University of any breach of these Terms (for example, if you become aware that someone else has used your account).

12. You must abide by any relevant instructions given by the Director or the Director's delegated officer. Such instructions may be issued by notice displayed in the vicinity of computing facilities, by letter, by electronic communication, in person or otherwise.

4. Copyright

1. The Copyright Act proceeds on the basis of bringing a computer program within the scope of the expression 'literary work' as used in the Copyright Act. 'Computer program' is defined as meaning:

   An expression, in any language code or notation, of a set of instructions (whether with or without related information) intended, either directly or indirectly, or after either or both of the following:
   a. conversion to another language, code or notation;
   b. reproduction in a different material form; to cause a device having digital information processing capabilities to perform a particular function.

2. Subject to what is said below in relation to backup copies, the reproduction of a computer program (as defined) constitutes a breach of the Copyright Act which may result in civil and/or criminal action against the offender.

3. The Act also prohibits what is termed an 'adaptation' of a computer program — an adaptation being one of the exclusive rights given to the owner of the copyright of a literary work. In relation to computer program an adaptation is defined as: 'a version of the work (whether not in the language, code or notation in which the work was original) expressed not being a reproduction of the work.' This definition is intended to prevent persons purchasing a computer program in one language and converting it to another language without the consent of the copyright owner.

4. The purchase or lease of computer software normally provides a licence to use the software, together with a copy of the software and associated documentation. The title to the software remains with the copyright owner, who is entitled, subject to the Copyright Act, to place conditions upon the use of the software.

5. Members of the University are personally responsible for complying with the Commonwealth Copyright Act relating to the copying of computer software and to the terms and conditions of the particular contract or software licence relating to leased or purchased software.

6. The Copyright Act makes specific provision for the making of a backup copy of either or both the original or an adaptation of a computer program. Thus the University can only make backup copies of programs for which it has purchased a licence. If a program is on loan or has been hired, the right to make copies will have to be expressly authorised by the copyright owner. In addition, the reproduction may only be made for the purpose of being used in lieu of the original copy in the event that the original copy is lost, destroyed or rendered unusable. Such a backup copy cannot be made from an infringing copy of the computer program or where the owner of the copyright in the program has given an express direction to the contrary.

7. Copying of computer software to hard disk should only occur if the computer software licence specifically allows it for other than normal backup purposes. The hard disk copy must not be used by more than one person at a time unless the agreement states otherwise; or in the absence of an agreement, it is used on the hard disk by no more than one person at a time.

8. Hard disk copies of software used in a network environment to allow simultaneous access by more than one user can only be provided if a. specially permitted in the contract or software licence; or b. a copy of the software has been purchased for every simultaneous user of the hard disk copy.

9. Copying of software for classroom use is not permitted unless specifically permitted under the contract or software licence for the leased or purchased product.

10. Maximum time for completion of award requirements for students enrolled for part or all of the program with less than a full-time load.
COURSE INFORMATION

Details of all undergraduate courses offered by the University listed in alphabetical order.
Bachelor of Aboriginal Studies

Award Abbreviation: (BAbStud)

The Bachelor of Aboriginal Studies degree is offered by the Faculty of Arts and Social Science. The degree was developed in response to particular needs in Aboriginal and Torres Strait Islander Communities, but may be undertaken by any students irrespective of their ethnic or racial backgrounds.

The course aims to encourage greater participation of Aboriginal and Torres Strait Islander peoples in higher education by providing a program of study which is specifically Aboriginal in orientation, takes account of Aboriginal circumstances, and prepares students for a variety of roles in Aboriginal and Torres Strait Islander organisations.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/student/australia/tafe/index.htm

Program Requirements

1. In order to qualify for the award, students must pass 240 credit points from the List of Approved Subjects comprising:
   (a) a maximum of 80 credit points at 100 level
   (b) a minimum of 60 credit points at 200 level
   (c) a minimum of 80 credit points at 300 level

2. In accordance with the Course Program, subjects are to be selected as follows:
   (a) Core Subjects - 140 credit points: 40 credit points at 100 level; 40 credit points at 200 level and 60 credit points at 300 level
   (b) Elective Subjects - 100 credit points: students are required to complete:
      (i) 50 credit points from one of the ABOR elective streams comprising 20 credit points at 100 level, 20 credit points at 200 level and 10 credit points from 300 level; and
      (ii) 50 credit points from either another ABOR elective stream or from other available undergraduate subjects from within the Faculty of Arts and Social Science or elsewhere.

3. Full-time enrolment (80 credit points per year) will enable completion in three years. Students may enrol in less than 80 credit points per year and completion will take proportionately longer.

Many disciplines (subject areas) within the Faculty of Arts and Social Science require students to complete a prescribed sequence of subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline’s requirements. Such requirements are mandatory when they lead to professional accreditation or when they involve the progressive acquisition of knowledge and/or skills. Before enrolling, students must consult the Department responsible for the discipline to ensure that they are satisfying the requirements. This is of particular significance when intending to pursue a major area of study in a particular discipline.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABOR121</td>
<td>Aboriginal Cultural Studies 1</td>
<td>10</td>
<td>1</td>
<td>Enrolled in Bachelor of Aboriginal Studies</td>
</tr>
<tr>
<td>ABOR122</td>
<td>Aboriginal Cultural Studies 2</td>
<td>10</td>
<td>2</td>
<td>ABOR121</td>
</tr>
<tr>
<td>ABOR123</td>
<td>Communication Studies 1</td>
<td>10</td>
<td>1</td>
<td>Enrolled in Bachelor of Aboriginal Studies</td>
</tr>
<tr>
<td>ABOR124</td>
<td>Communication Studies 2</td>
<td>10</td>
<td>2</td>
<td>ABOR123</td>
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Year 1 - Elective Subjects

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<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABOR134</td>
<td>Aboriginal Health Past and Present</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ABOR135</td>
<td>Aboriginal Health Practices</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ABOR136</td>
<td>Aboriginal Leadership</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ABOR137</td>
<td>Working with Aboriginal Communities</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ABOR138</td>
<td>Aboriginal Land Rights</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ABOR139</td>
<td>Human Rights and Aboriginal Peoples</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Bachelor of Applied Information Technology

(Central Coast Campus)

Award Abbreviation: BAppIT

The Bachelor of Applied Information Technology is offered by the Faculty of the Central Coast. The Bachelor of Applied Information Technology degree is a multidisciplinary program that combines complementary development of knowledge and skills in Information Technology (IT) and in another discipline area of study of the student’s choice. The program is designed to provide the technical ability necessary to allow an individual to work effectively and professionally in the field of Information Technology, the selection of the second discipline area of study provides a context for application of their Information Technology knowledge and skills.

Schedule

Qualification for the Degree

1. To qualify for admission to the degree, a candidate shall pass a program of subjects approved by the Faculty Board totalling not less than 240 credit points.

Admission to Candidature

2. (1) In selecting applicants for admission to candidature, preference will be given to Australian Aboriginal and Torres Strait Islanders.

   (2) For the purposes of sub-clause (1), "Australian Aboriginal" or "Torres Strait Islander" shall mean a person of Australian Aboriginal or Torres Strait Islander descent who identifies as an Australian Aboriginal or Torres Strait Islander and is accepted as such by the community in which that person lives.

3. Applicants for admission shall be required to undertake selection assessment which will consist of attendance at interviews and such other requirements as determined by the Faculty Board.

4. Applicants who do not attend the University as required part of the selection assessment shall be deemed to have withdrawn their applications unless a reason acceptable to the Faculty Board, or its nominee, is provided.

Credit

5. (1) A candidate may be granted credit towards satisfaction of degree requirements:

   (a) in up to 160 credit points in recognition of subjects passed at this University or another tertiary institution which have not been previously counted towards a completed award; or

   (b) in up to 110 credit points in recognition of subjects passed and previously counted in satisfaction of the requirements of a completed award; and

   (c) in exceptional circumstances, in as many additional credit points as the Faculty Board, or its nominee, may determine.

   (2) A graduate of the University of Newcastle’s Diploma in Aboriginal Studies may be granted credit in up to 160 credit points.

Diploma in Aboriginal Studies

6. A candidate who has passed 150 credit points and met the requirements for the first two years of the degree may apply in writing to the Faculty Board for permission to be admitted to the award of Diploma in Aboriginal Studies, if they are unable to complete the remaining requirements for the degree.
For the complementary discipline area to which students apply their Information Technology knowledge and skills, they may choose from a variety of courses in business, humanities, science and technology. From the business area these include accounting, entrepreneurship, sport and club management, hotel management, human resource management and marketing. For the humanities, the areas include Australian studies, ancient cultures, drama, education, English, fine art, history, linguistics, politics, sociology, anthropology, and welfare studies. For science and technology, the areas include chemistry, coastal zone management, food technology, natural resource management and human nutrition.

The degree is designed to encourage learning pathways in Information Technology. In particular, for students who have completed vocationally oriented Information Technology awards such as those from TAFE, the program incorporates components from the Australian Information Technology Training Package offered through the Hunter Institute of Technology.

The degree comprises a major sequence of study in, plus a major study in a non-IT discipline offered by the Faculty of the Central Coast. The degree will lead to careers in areas such as computer programming, software development, systems administration, database administration, help desk support, network analysis, e-commerce as well as in the non-IT major undertaken by the student. The degree is especially applicable to careers that require IT to be mixed with another discipline.

TAFE Credit
Credit transfer agreements with TAFENSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/ourlawtafeprograms/index.htm

Course Structure
The degree is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totalling 240 credit points. The degree comprises a core of Information Technology (IT) subjects, a core of non-IT subjects, and additional electives, so that students undertake an IT major, another major and elective subjects. The 240 points required to complete the degree must include the following components:

Information Technology Component (Group 1)
The Information Technology component consists of 120 credit points, including at least 30 credit points at 100 level, chosen from the Group 1 subjects (10 subjects), 80 of the 120 credit points (40 at 100 level and 40 at 200 level) consists of subjects created in partnership with the Hunter Institute of Technology and are taught by the Institute.

Non-IT Component (Group 2)
120 credit points from Group 2 subjects (non-IT subjects) including a sequence of at least 30 credit points at 100 level, 30 credit points at 200 level and 40 credit points at 300 level within a single discipline available at the Central Coast Campus.

Bachelor of Applied Science (Consumer Science)
Award Abbreviation: BAppSc(ConSci) Note: This course is available only to continuing students.

The Bachelor of Applied Science (Consumer Science) is offered by the Faculty of Medicine and Health Sciences. This course involves the study of the food sciences from a consumer perspective. These food sciences include nutrition, food production and preparation, food science and food technology. The course is usually completed in three years by full-time students or in six years by part-time students.

The course is supported by a range of electives designed for specific career paths. Subject areas covered by electives include consumer behaviour, consumer rights and law, management and marketing, consumerism and the environment. Communication and problem-solving skills are developed through individual and group projects.

Work experience placement in the third year encourages students to explore possible career options. These are available in the consumer service industries, the food industry and associated organisations and a variety of occupations including: market research, food services management, education, product development, promotions, sales, public relations and consultancy.

The degree may be conferred With Merit if a student achieves the specified level of performance in the ordinary degree: Total Grade Point Average ($9.5/7$).

Course Structure
Qualification for the award of Bachelor of Applied Science (Consumer Science) requires the completion of 240 credit points.

### Course Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUBS101</td>
<td>Human Bioscience 1A</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>TLED104</td>
<td>Food Chemistry (Nutrition and Dietetics)</td>
<td>15</td>
<td>Full year</td>
<td></td>
</tr>
</tbody>
</table>

As well as the core subjects, students must complete additional Group 2 subjects offered by the Faculty of the Central Coast.
The Bachelor of Applied Science (Consumer Science) (Honours) is offered by the Faculty of Medicine and Health Sciences. This Honours program builds on the foundation of the ordinary degree by:

a) providing research experience within the food industry and/or consumer associations;

b) extending the consumer focus of the undergraduate program with the development of a food and nutrition program;

c) developing research skills in the area of consumer science as it applies to food and nutrition.

To be eligible for the Honours program students must have achieved a credit average or better at the 100 level (Grade Point Average > 5.871) in the Bachelor of Applied Science (Consumer Science) Ordinary Degree, including a distinction for one of the following subjects: NUDI004, NUDI010 or NUDI016.

Course Structure

The Honours degree may be completed over one year of full-time study or two years part-time. It requires students to complete a total of 80 credit points by undertaking the subjects listed.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUDI015</td>
<td>Consumer Science Honours I</td>
<td>40</td>
<td>Full year</td>
</tr>
<tr>
<td>NUDI011</td>
<td>Consumer Science Honours II</td>
<td>40</td>
<td>Full year</td>
</tr>
<tr>
<td>NUDI012</td>
<td>Consumer Science Honours III</td>
<td>40</td>
<td>Full year</td>
</tr>
<tr>
<td>NUDI013</td>
<td>Consumer Science Honours IV</td>
<td>40</td>
<td>Full year</td>
</tr>
<tr>
<td>NUDI014</td>
<td>Consumer Science Honours V</td>
<td>40</td>
<td>Full year</td>
</tr>
<tr>
<td>NUDI015</td>
<td>Consumer Science Honours VI</td>
<td>40</td>
<td>Full year</td>
</tr>
<tr>
<td>NUDI016</td>
<td>Consumer Science Honours VII</td>
<td>40</td>
<td>Full year</td>
</tr>
<tr>
<td>NUDI017</td>
<td>Consumer Science Honours VIII</td>
<td>40</td>
<td>Full year</td>
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<tr>
<td>NUDI018</td>
<td>Consumer Science Honours IX</td>
<td>40</td>
<td>Full year</td>
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<tr>
<td>NUDI019</td>
<td>Consumer Science Honours X</td>
<td>40</td>
<td>Full year</td>
</tr>
</tbody>
</table>

Schedule

Admission to Candidature

1. An applicant for admission to candidature shall have completed the requirements for the ordinary degree of Bachelor of Applied Science (Consumer Science) of the University or to an other degree approved for this purpose by the Faculty Board.

Qualification for the Degree

2. To qualify for admission to the degree a candidate shall pass subjects totalling 80 credit points from the List of Approved Subjects.

Classes of Honours

3. There shall be three classes of Honours: Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

Time Requirements

4. A candidate shall complete the course in not more than two years of study unless otherwise permitted by the Faculty Board.
Students work in groups of eight/twelve under the guidance of a tutor/ facilitator, mainly in a studio environment (Building ADS on campus), where they have their own personal workspace. They are expected to attain a required level of competence in each Studio Design Project (Phase) and in each Study Area. However, the Study Areas did not exist as independent subjects. The essence of the integrated approach is that the knowledge and skills acquired in each Design Phase and in each Study Area must be integrated and applied to the context of design studio projects. Although the development of knowledge and expertise in the individual disciplines which contribute to the practice of architecture is important, it is equally important that the interaction between areas of knowledge is also appreciated and that the integrative nature of the design process is understood. The learning program is thus intended to reflect the way in which an architect responds to design challenges in practice. Knowledge and skills are assessed in both the context of the individual study areas and the studio design projects.

Course Structure and Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH413</td>
<td>Architecture 4 Part 1</td>
<td>40</td>
<td>1</td>
<td>ARCH310 or ARCH312 ARCH610 or ARCH612</td>
</tr>
<tr>
<td>ARCH414</td>
<td>Architecture 4 Part 2</td>
<td>40</td>
<td>2</td>
<td>ARCH413</td>
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</table>

Year 5

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH513</td>
<td>Architecture 5(Part 1)</td>
<td>40</td>
<td>1</td>
<td>ARCH410 or ARCH412 or ARCH413 and ARCH414</td>
</tr>
<tr>
<td>ARCH514</td>
<td>Architecture 5(Part 2)</td>
<td>40</td>
<td>2</td>
<td>ARCH513</td>
</tr>
</tbody>
</table>

Faculty Board may require a candidate to pass a program of study including an additional 80 credit points of study or a Preliminary Year. If previous tertiary studies are deemed insufficient to permit a candidate to succeed in the program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH611</td>
<td>Architecture 6 Preliminary (Part 1)</td>
<td>40</td>
<td>1</td>
<td>Enrolment in B Architecture</td>
</tr>
<tr>
<td>ARCH612</td>
<td>Architecture 6 Preliminary (Part 2)</td>
<td>40</td>
<td>2</td>
<td>ARCH611</td>
</tr>
</tbody>
</table>

Schedule

Admission to Candidature

1. An applicant for admission to candidature shall:
   (a) have completed the requirements for admission to the degree of Bachelor of Science (Architecture) in the University of Newcastle; or
   (b) have completed the requirements for admission to a degree at any other institution recognised by the Faculty Board as equivalent to the degree of Bachelor of Science (Architecture) in the University of Newcastle; or
   (c) hold such other qualifications approved by the Faculty Board for the purpose of admission to candidature.

Enrolment

2. In any year a candidate will enrol in 80 credit points unless granted the permission of the Faculty Board to enrol in fewer.

Qualification for the Degree

3. To qualify for admission to the degree a candidate shall pass the program of study approved by the Faculty Board totalling 160 credit points except that in the case of a candidate who has been admitted to candidature under section 1(c) the Faculty Board may require a candidate to pass a program of study approved by it totalling 240 credit points.

Grading of the Degree

4. (1) The degree shall be conferred as an Ordinary Degree except that, where the candidate of a program has reached a standard determined by the Faculty Board to be of sufficient merit, the degree may be conferred with Honours.

   (2) There shall be two classes of Honours, namely Class I and Class II.

Credit

5. The credit granted to candidates shall not exceed 80 credit points.
### Greek and Roman Religion in the Graeco-Roman World

**Subject Code**: MRH100

**Subject Name**: Greek and Roman Religion in the Graeco-Roman World

**Credit Points**: 10

**Semester**

- **1**: 2

**Assumed Knowledge**: N/A

**Description**: May include up to 10 credit points at 100 level in Ancient History or History of Religion at 100 level or equivalent.

### Cultural Studies

#### Media, Culture and Society

**Subject Code**: LEIS104

**Subject Name**: Australian Literature: Narratives of Identity

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 10 credit points at 100 level in English Language and Literature or equivalent.

#### Communication and Culture

**Subject Code**: LEIS210

**Subject Name**: Screen, Image and Culture

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 10 credit points at 100 level in English Language and Literature or equivalent.

#### Cultural Studies: Interdisciplinary Issues

**Subject Code**: LEIS301

**Subject Name**: Advanced Cultural Studies: Interdisciplinary Issues

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 10 credit points at 100 level in English Language and Literature or equivalent.

#### Cultural Studies: Identity, Difference and the Global

**Subject Code**: LEIS302

**Subject Name**: Advanced Cultural Studies: Narratives of Identity

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 10 credit points at 100 level in English Language and Literature or equivalent.

### Drama

**Subject Code**: DRAM101

**Subject Name**: Introduction to Drama 1

**Credit Points**: 10

**Semester**: 1

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 100 level in English Language and Literature or equivalent.

**Subject Code**: DRAM210

**Subject Name**: Introduction to Drama 2

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 100 level in English Language and Literature or equivalent.

**Subject Code**: DRAM231

**Subject Name**: Modernism and Performance 1

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 100 level in English Language and Literature or equivalent.

**Subject Code**: DRAM232

**Subject Name**: Modernism and Performance 2

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 100 level in English Language and Literature or equivalent.

**Subject Code**: DRAM330

**Subject Name**: Drama and Education 1

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 100 level in English Language and Literature or equivalent.

**Subject Code**: DRAM331

**Subject Name**: Drama and Education 2

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 100 level in English Language and Literature or equivalent.

**Subject Code**: DRAM332

**Subject Name**: Performance and Contemporary Culture 1

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 200 level in Drama and Performance or equivalent.

**Subject Code**: DRAM333

**Subject Name**: Performance and Contemporary Culture 2

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 200 level in Drama and Performance or equivalent.

**Subject Code**: DRAM334

**Subject Name**: Community Drama 1

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 200 level in Drama and Performance or equivalent.

**Subject Code**: DRAM335

**Subject Name**: Community Drama 2

**Credit Points**: 10

**Semester**: 2

**Assumed Knowledge**: N/A

**Description**: Students who do not have the assumed knowledge may enrol in 20 credit points at 200 level in Drama and Performance or equivalent.
<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAM380</td>
<td>A Director's Perspective 1</td>
<td>10</td>
<td>2</td>
<td>40 credit points at 200 level in Drama, including DRAM275</td>
</tr>
<tr>
<td>DRAM381</td>
<td>A Director's Perspective 2</td>
<td>10</td>
<td>2</td>
<td>40 credit points at 200 level in Drama and approval of subject convenor or Head of Department of Drama</td>
</tr>
<tr>
<td>DRAM382</td>
<td>Advanced Studies in Performance 1</td>
<td>20</td>
<td>2</td>
<td>40 credit points at 200 level in Drama and approval of subject convenor or Head of Department of Drama</td>
</tr>
<tr>
<td>DRAM383</td>
<td>Advanced Studies in Performance 2</td>
<td>20</td>
<td>2</td>
<td>40 credit points at 200 level in Drama and approval of subject convenor or Head of Department of Drama</td>
</tr>
<tr>
<td>DRAM384</td>
<td>Acting 3</td>
<td>10</td>
<td>N/A 2001</td>
<td>40 credit points at 200 level in Drama, including DRAM271 and approval of subject convenor or Head of Department of Drama</td>
</tr>
<tr>
<td>DRAM385</td>
<td>DRAM382</td>
<td>10</td>
<td>2</td>
<td>DRAM382</td>
</tr>
</tbody>
</table>

### Subject Code: Subject Name

#### Economics
- **ECON110**: Microeconomics 1 (10 credit points)
- **ECON111**: Macroeconomics 1 (10 credit points)
- **ECON113**: Basic Economics and Quantitative Analysis 1 (10 credit points)
- **ECON230**: Introductory Labour Economics (10 credit points)
- **ECON232**: Asian Business Development (10 credit points)
- **ECON234**: The Rise of Consumer Society (10 credit points)
- **ECON236**: Australian Business History (10 credit points)
- **ECON239**: Business Economics (10 credit points)
- **ECON245**: Basic Economics and Quantitative Analysis 2 (10 credit points)
- **ECON246**: Economics of Information and Networks (10 credit points)
- **ECON247**: International Business Environment (10 credit points)
- **ECON250**: Microeconomics 2 (10 credit points)
- **ECON251**: Macroeconomics 2 (10 credit points)
- **ECON252**: Introduction to International Trade and Finance (10 credit points)
- **ECON254**: Money and Banking (10 credit points)
- **ECON256**: International Business and Finance (10 credit points)
- **ECON258**: Money and Finance (10 credit points)
- **ECON259**: Financial Economics (10 credit points)
- **ECON260**: Labor Economics (10 credit points)
- **ECON262**: Econometric Modelling and Forecasting (10 credit points)
- **ECON264**: International Business Environment (10 credit points)
- **ECON265**: Microeconomics 3 (10 credit points)
- **ECON266**: Macroeconomics 3 (10 credit points)

#### Subject Code: Subject Name

#### English
- **ENGL102**: The Age of Shakespeare (10 credit points)
- **ENGL103**: The Romantic Age (10 credit points)
- **ENGL104**: Australian Literature: Narratives of Identity (10 credit points)
- **ENGL105**: The Modern Novel (10 credit points)
- **ENGL107**: Representing the Child (10 credit points)
- **ENGL108**: Literature and Its Media (10 credit points)
- **ENGL201**: Creative Writing: Beginnings (10 credit points)

#### Subject Code: Subject Name

#### French
- **FRE110**: Elementary French 1 (10 credit points)
- **FRE112**: Elementary French 2 (10 credit points)
- **FRE112**: Twentieth Century Texts (10 credit points)

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The University of Newcastle

Undergraduate Handbook 2004
<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG010</td>
<td>Methods in Physical Geography</td>
<td>5</td>
<td>1</td>
<td>GEOG01 or ENVI04</td>
</tr>
<tr>
<td>GEOG011</td>
<td>Methods in Human Geography</td>
<td>5</td>
<td>1</td>
<td>GEOG01 or ENVI04</td>
</tr>
<tr>
<td>GEOG012</td>
<td>Communicating in Geography and Environmental Science</td>
<td>5</td>
<td>1</td>
<td>GEOG01 or ENVI04</td>
</tr>
<tr>
<td>GEOG013</td>
<td>Geographies of Development</td>
<td>10</td>
<td>2</td>
<td>GEOG010</td>
</tr>
<tr>
<td>GEOG014</td>
<td>Outback Diversity</td>
<td>10</td>
<td>2</td>
<td>GEOG010</td>
</tr>
<tr>
<td>GEOG081</td>
<td>Advanced Methods in Physical Geography</td>
<td>10</td>
<td>2</td>
<td>GEOG010 or GEOG011 and either GEOG020 or GEOG021</td>
</tr>
<tr>
<td>GEOG082</td>
<td>Advanced Methods in Human Geography</td>
<td>10</td>
<td>2</td>
<td>GEOG010 or GEOG011 and either GEOG020 or GEOG021</td>
</tr>
<tr>
<td>GEOG089</td>
<td>Society and Space</td>
<td>10</td>
<td>1</td>
<td>GEOG020 or GEOG011 and either GEOG020 or GEOG021</td>
</tr>
<tr>
<td>GEOG17</td>
<td>Advanced Climatology</td>
<td>10</td>
<td>1</td>
<td>GEOG020, GEOG021 or ENVI021, GEOG030</td>
</tr>
<tr>
<td>GEOG230</td>
<td>Quaternary Environments</td>
<td>10</td>
<td>1</td>
<td>GEOG020, GEOG021 or ENVI021 and either GEOG020 or GEOG021</td>
</tr>
<tr>
<td>GEOG221</td>
<td>Advanced Biogeography and Climatology</td>
<td>10</td>
<td>2</td>
<td>GEOG020, GEOG021 or ENVI021</td>
</tr>
<tr>
<td>GEOG222</td>
<td>Coastal Dynamics, Evolution and Protection</td>
<td>10</td>
<td>2</td>
<td>GEOG020, GEOG021 or ENVI021</td>
</tr>
<tr>
<td>GEOG233</td>
<td>Post-colonial Geographies</td>
<td>10</td>
<td>2</td>
<td>GEOG020, GEOG021 or ENVI021</td>
</tr>
<tr>
<td>GEOG234</td>
<td>Globalisation: Cities, Economies</td>
<td>10</td>
<td>2</td>
<td>GEOG020, GEOG021 or ENVI021</td>
</tr>
<tr>
<td>GEOG235</td>
<td>Geographic Information Systems</td>
<td>10</td>
<td>2</td>
<td>GEOG020, GEOG021 or ENVI021</td>
</tr>
</tbody>
</table>

German

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER100</td>
<td>Elementary German 1</td>
<td>10</td>
<td>1</td>
<td>GER110 or equivalent</td>
</tr>
<tr>
<td>GER102</td>
<td>Elementary German 2</td>
<td>10</td>
<td>1</td>
<td>GER110 or equivalent</td>
</tr>
<tr>
<td>GER121</td>
<td>Continuation German: Grammatical Structures 1</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER122</td>
<td>Continuation German: Grammatical Structures 2</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER133</td>
<td>Continuation German: Language Revision 1</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER134</td>
<td>Continuation German: Language Revision 2</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER135</td>
<td>Continuation German: Practical German 1</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER136</td>
<td>Continuation German: Practical German 2</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER137</td>
<td>Continuation German: German Idiom 1</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER138</td>
<td>Continuation German: German Idiom 2</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER139</td>
<td>Intermediate German Language 3</td>
<td>10</td>
<td>2</td>
<td>GER120 or equivalent</td>
</tr>
<tr>
<td>GER140</td>
<td>Intermediate German Language 4</td>
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Geography

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Selected Ancient History Students: Subjects may include up to 20 credit points of the following AHS subjects as components of a History Group A subject list.

AHS202: The Roman Republic: Grecloc to Caesar | 10
AHS305: Democratic Athens in Growth and Crisis | 20
AHS312: Augustus and the Emergence of Empire | 10
AHS313: Roman Britain and Anglo-Saxon England | 10
AHS314: Philip II and Alexander the Great | 10
AHS315: Sparta | 10
AHS317: Rome and the Celts | 10
AHS321: Greek Society | 10
AHS352: Roman Society | 10
AHS359: Magic and Witchcraft in Antiquity | 10
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### Psychology

Students may choose to complete the subjects comprising the first three years of the Bachelor of Arts (Psychology) program and thereby meet current Australian Psychological Society requirements for an accredited sequence of three years. The APS advises that this would enable Associate Membership if the course is supplemented by an APS accredited fourth year of study such as the Bachelor of Arts (Honours) in Psychology.

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### Religious Studies

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<td>Magic and Witchcraft in Antiquity</td>
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<td>GEN202</td>
<td>Gender and Religion</td>
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<td>Religion and Technology</td>
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<td>Early Christianity</td>
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<td>Islam in Modern Society</td>
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<td>SOCA222</td>
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<td>SOCA250</td>
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<td>SOCA252</td>
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<td>SOCA329</td>
<td>Shamanism and Healing</td>
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### Sanskrit

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### Sociology and Anthropology

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<td>SOCA110</td>
<td>Communication and Culture</td>
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### Notes

- Students may choose to complete the subjects comprising the first three years of the Bachelor of Arts (Psychology) program and thereby meet current Australian Psychological Society requirements.
- The APS advises that this would enable Associate Membership if the course is supplemented by an APS accredited fourth year of study such as the Bachelor of Arts (Honours) in Psychology.
- Subject codes and names are provided for reference.
Aborigines, Australian society or...
Approved Group A Subjects offered at Central Coast Campus

Also see Group A Subjects listed under Bachelor of Arts offered at Callaghan Campus.

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<td>BUS113</td>
<td>Australian Government and Politics</td>
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<td>HFA101</td>
<td>Aboriginal Art and the Asia-Pacific</td>
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<td>English and Australian Fiction</td>
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<td>Australia and the World</td>
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<td>Issues in Australian Politics and Foreign Policy</td>
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200 Level

200 level Electives - at least 20 credit points selected from the following

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<td>SOCA210C</td>
<td>Australian Families</td>
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<td>SOCA212C</td>
<td>Introductory Aboriginal Studies: Culture and Politics</td>
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<td>Ethnography in the City: Culture and Difference</td>
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<td>Human Rights, Advocacy and Social Change</td>
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<td>Welfare Sector Management</td>
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300 Level

Either

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300 level Electives - at least 30 credit points selected from the following

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<td>Current Views of Art History</td>
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<td>HHUM351</td>
<td>Re-Writing Women</td>
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<td>HHUM370</td>
<td>Australian Popular Culture</td>
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<td>HHUM371</td>
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200 level Electives - at least 20 credit points selected from the following

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Approved Group A Subjects offered at Central Coast Campus

Australian Studies

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200 Level

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300 Level

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Approved Group A Subjects offered at Central Coast Campus

Also see Group A Subjects listed under Bachelor of Arts offered at Callaghan Campus.

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Bachelor of Arts (Communication Studies)

Award Abbreviation: BA(Comm@stud)

The Bachelor of Arts (Communication Studies) degree is offered by the Faculty of Arts and Social Science. This degree prepares students to work professionally in the media and communication industries and for further study and research in this field. Graduates are equipped with an appropriate range of skills, knowledge and understanding for entry to at least one professional area, supported by skills and abilities across a broad range of communication activities. Graduates will understand the relationship between media theories and professional practice and will be aware of the cultural, economic and social significance of communications in society.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ousr/aau/tafe/credit/index.htm

Program Requirements

1. In order to qualify for the award, a student must pass 240 credit points comprising a minimum of 180 credit points of subjects approved as Group 1 or Group 2 subjects by the Faculty Board and comprising:
   (a) at least 110 credit points from Group 1 subjects including at least 20 credit points from 300 level subjects and at least 20 credit points from the following subjects: CMNS100 Introduction to Digital Media, CMNS111 Introduction to Communication Studies, LEIS105 Media, Culture and Society, SOCA110 Communication and Culture;
   (b) at least 70 credit points from Group 2 subjects including at least 20 credit points from 300 level subjects and PHIL358 Ethical Issues;
   (c) no more than 60 credit points from Group 3 subjects, which may be selected from other available undergraduate subjects, either from within the Faculty of Arts and Social Science or elsewhere.
   (d) no more than 100 credit points from 100 level subjects;
   (e) at least 60 credit points from 300 level subjects.

2. A student shall achieve a satisfactory level of English usage competency as determined by the Head of Department of Communication and Media Arts.

3. For purposes of determining academic record completion, a credit point is considered to be 20 credit points.

Program Requirements

1. (1) To qualify for admission to the degree a candidate shall pass a program of subjects approved by the Faculty Board totalling not less than 240 credit points.
   (2) A candidate for the degree of Bachelor of Arts (Psychology), who has not completed the requirements for that degree and has satisfied the requirements of sub-section (1), may be admitted to the degree.

Credit

2. A candidate may be granted credit towards satisfaction of degree requirements:
   (a) in up to 160 credit points in recognition of subjects passed at this University or another tertiary institution which have not been previously counted towards a completed award; or
   (b) in up to 110 credit points in recognition for subjects passed and previously counted in satisfaction of the requirements of a completed award; and
   (c) in exceptional circumstances, in as many additional credit points as the Faculty Board, or its nominee, may determine.

Schedule

Qualification for the Degree

1. (1) To qualify for admission to the degree a candidate shall pass a program of subjects approved by the Faculty Board totalling not less than 240 credit points.
   (2) A candidate for the degree of Bachelor of Arts (Psychology), who has not completed the requirements for that degree and has satisfied the requirements of sub-section (1), may be admitted to the degree.

2. A candidate may be granted credit towards satisfaction of degree requirements:
   (a) in up to 160 credit points in recognition of subjects passed at this University or another tertiary institution which have not been previously counted towards a completed award; or
   (b) in up to 110 credit points in recognition for subjects passed and previously counted in satisfaction of the requirements of a completed award; and
   (c) in exceptional circumstances, in as many additional credit points as the Faculty Board, or its nominee, may determine.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent Knowledge (CR)/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMNS100</td>
<td>Introduction to Digital Communication</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CMNS103</td>
<td>Introduction to Video 1</td>
<td>10</td>
<td>2</td>
<td>Enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS104</td>
<td>Introduction to Video 2</td>
<td>10</td>
<td>2</td>
<td>CMNS103 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS105</td>
<td>Introduction to Audio Communication</td>
<td>10</td>
<td>1</td>
<td>Enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS106</td>
<td>Audio Programmes</td>
<td>10</td>
<td>2</td>
<td>CMNS105 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS109</td>
<td>Introduction to Professional Writing</td>
<td>10</td>
<td>1</td>
<td>Enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS111</td>
<td>Introduction to Communication Studies</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CMNS128</td>
<td>Introduction to Journalism</td>
<td>10</td>
<td>1</td>
<td>CMNS109 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS129</td>
<td>Introduction to Public Relations Practice</td>
<td>10</td>
<td>1</td>
<td>CMNS105 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>LEIS105</td>
<td>Media, Culture and Society</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SOCA110</td>
<td>Communication and Culture</td>
<td>10</td>
<td>2</td>
<td>20 credit points, SOCA or CMNS100 level subjects or equivalent</td>
</tr>
<tr>
<td>CMNS203</td>
<td>Digital Video Production</td>
<td>10</td>
<td>1</td>
<td>CMNS104 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS204</td>
<td>Music Video</td>
<td>10</td>
<td>2</td>
<td>CMNS103, CMNS104 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS205</td>
<td>Radio Industry Studies</td>
<td>10</td>
<td>1</td>
<td>CMNS106 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS206</td>
<td>Media Interviews</td>
<td>10</td>
<td>2</td>
<td>CMNS111, CMNS103 or CMNS105 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS212</td>
<td>Research for Communication Practice</td>
<td>10</td>
<td>1</td>
<td>CMNS109</td>
</tr>
<tr>
<td>CMNS213</td>
<td>Editing Small Publications</td>
<td>10</td>
<td>1</td>
<td>CMNS100</td>
</tr>
<tr>
<td>CMNS224</td>
<td>Public Affairs</td>
<td>10</td>
<td>N/A 2001</td>
<td>60cp at 100 level incl. CMNS111</td>
</tr>
<tr>
<td>CMNS228</td>
<td>Magazine Journalism</td>
<td>10</td>
<td>1</td>
<td>CMNS128 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS229</td>
<td>Public Relations Issues and Strategies</td>
<td>10</td>
<td>1</td>
<td>CMNS129 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS236</td>
<td>Introduction to Broadcast Journalism</td>
<td>10</td>
<td>1</td>
<td>CMNS228, CMNS203 and/or CMNS205 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS303</td>
<td>Advanced Video Production</td>
<td>10</td>
<td>1</td>
<td>CMNS204 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS307</td>
<td>Advanced Audio Communication</td>
<td>10</td>
<td>1</td>
<td>CMNS203, CMNS205, CMNS303 or CMNS206 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS308</td>
<td>Video Project</td>
<td>10</td>
<td>1</td>
<td>CMNS203 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS311</td>
<td>Video Production</td>
<td>10</td>
<td>1</td>
<td>CMNS303 and enrolled in BA(Comm@stud)</td>
</tr>
<tr>
<td>CMNS317</td>
<td>Screenwriting (Documentary)</td>
<td>10</td>
<td>1</td>
<td>CMNS103 or CMNS109 and 60 credit points at 200 level</td>
</tr>
<tr>
<td>CMNS318</td>
<td>Screenwriting (Digital)</td>
<td>10</td>
<td>2</td>
<td>CMNS103 or CMNS109 and 60 credit points at 200 level</td>
</tr>
</tbody>
</table>

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ousr/aau/tafe/credit/index.htm
Students may select a maximum of 80 credit points from the ART subjects listed below to count in Group 1. Students may select more of these ART subjects but they will be counted in Group 3.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMNS234</td>
<td>Applied Communication Studies</td>
<td>10</td>
<td>1</td>
<td>Approval by Head of Department of Communication and Media Arts and enrolled in BA (Comm St)</td>
</tr>
<tr>
<td>CMNS328</td>
<td>Applied Journalism</td>
<td>20</td>
<td>2</td>
<td>CMNS/28; 60 credit points at 200 level and enrolled in BA (Comm St) incl. CMNS228</td>
</tr>
<tr>
<td>CMNS229</td>
<td>Applied Public Relations</td>
<td>20</td>
<td>2</td>
<td>CMNS229; 60 credit points at 200 level and enrolled in BA (Comm St)</td>
</tr>
<tr>
<td>CMNS330</td>
<td>Broadcast Journalism</td>
<td>10</td>
<td>1</td>
<td>60 credit points at 200 level incl. CMNS236 and enrolled in BA (Comm St)</td>
</tr>
<tr>
<td>CMNS399</td>
<td>Directed Reading</td>
<td>10</td>
<td>1, 2</td>
<td>Approval by Head of Department of Communication and Media Arts and enrolled in BA (Comm St)</td>
</tr>
</tbody>
</table>

**Subject Code Subject Name Credit Points Semester Assumed Knowledge/Course Requirement**

**Group 2**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN191</td>
<td>Graphics I</td>
<td>10</td>
<td>2</td>
<td>DESN191</td>
</tr>
<tr>
<td>DESN192</td>
<td>Graphics II</td>
<td>10</td>
<td>2</td>
<td>DESN192</td>
</tr>
<tr>
<td>CMNS231</td>
<td>Principles of Sound</td>
<td>10</td>
<td>2</td>
<td>CMNS106, CMNS112, CMNS203 or CMNS267 and enrolled in BA (Comm St)</td>
</tr>
<tr>
<td>CMNS233</td>
<td>Multimedia on the Web</td>
<td>10</td>
<td>2</td>
<td>60 credit points at 100 level incl. CMNS180</td>
</tr>
<tr>
<td>CMNS235</td>
<td>Contemporary Popular Music: Cultural Production and Use</td>
<td>10</td>
<td>2</td>
<td>60 credit points at 100 level</td>
</tr>
<tr>
<td>CMNS260</td>
<td>Audience Studies</td>
<td>10</td>
<td>1</td>
<td>CMNS111 or equivalent</td>
</tr>
<tr>
<td>CMNS262</td>
<td>Media Ownership and Control</td>
<td>10</td>
<td>2</td>
<td>CMNS111</td>
</tr>
<tr>
<td>CMNS267</td>
<td>Soundscapes Studies</td>
<td>10</td>
<td>2</td>
<td>CMNS105</td>
</tr>
<tr>
<td>CMNS293</td>
<td>Graphics 3</td>
<td>10</td>
<td>2</td>
<td>DESN192</td>
</tr>
<tr>
<td>DESN294</td>
<td>Digital Graphic Design</td>
<td>10</td>
<td>2</td>
<td>DESN293</td>
</tr>
<tr>
<td>CMNS325</td>
<td>Electronic Media Studies</td>
<td>10</td>
<td>2</td>
<td>CMNS100, CMNS163 or CMNS104</td>
</tr>
<tr>
<td>CMNS326</td>
<td>Texts and Contexts</td>
<td>10</td>
<td>2</td>
<td>60 credit points at 100 level</td>
</tr>
<tr>
<td>CMNS327</td>
<td>Communication and Discourse</td>
<td>10</td>
<td>2</td>
<td>60 credit points at 100 level incl. CMNS111</td>
</tr>
<tr>
<td>CMNS331</td>
<td>Creativity and Cultural Production</td>
<td>10</td>
<td>2</td>
<td>60 credit points at 200 level</td>
</tr>
<tr>
<td>CMNS332</td>
<td>International Media Studies</td>
<td>10</td>
<td>2</td>
<td>60 credit points at 200 level</td>
</tr>
<tr>
<td>CMNS333</td>
<td>Virtual and Cultural Places</td>
<td>10</td>
<td>2</td>
<td>CMNS235</td>
</tr>
<tr>
<td>CMNS337</td>
<td>Sound Project</td>
<td>10</td>
<td>2</td>
<td>CMNS233 or CMNS267 and enrolled in BA (Comm St)</td>
</tr>
<tr>
<td>CMNS338</td>
<td>Digital and Electronic Publications</td>
<td>10</td>
<td>2</td>
<td>CMNS235, CMNS293 or CMNS323</td>
</tr>
<tr>
<td>CMNS339</td>
<td>Preface, Ethics, Aesthetics</td>
<td>10</td>
<td>2</td>
<td>60 credit points at 100 level</td>
</tr>
<tr>
<td>CMNS340</td>
<td>Copy Writing</td>
<td>10</td>
<td>2</td>
<td>CMNS109</td>
</tr>
<tr>
<td>DRAM101</td>
<td>Introduction to Drama 1</td>
<td>10</td>
<td>1</td>
<td>DRAM101</td>
</tr>
<tr>
<td>DRAM102</td>
<td>Introduction to Drama 2</td>
<td>10</td>
<td>2</td>
<td>DRAM101</td>
</tr>
<tr>
<td>DRAM270</td>
<td>Acting 1</td>
<td>10</td>
<td>2</td>
<td>DRAM101 and DRAM102</td>
</tr>
<tr>
<td>DRAM271</td>
<td>Acting 2</td>
<td>10</td>
<td>2</td>
<td>DRAM270</td>
</tr>
<tr>
<td>ENGL220</td>
<td>Creative Writing: Beginnings</td>
<td>10</td>
<td>2</td>
<td>20 credit points in ENGL or 20 credit points in CMNS subjects or equivalent</td>
</tr>
<tr>
<td>ENGL221</td>
<td>Creative Writing: Development</td>
<td>10</td>
<td>2</td>
<td>20 credit points in ENGL or 20 credit points in CMNS subjects or equivalent</td>
</tr>
</tbody>
</table>

**Schedule Qualification for the Degree**

1. To qualify for admission to the degree, a candidate shall pass a program of subjects approved by the Faculty Board totalling not less than 240 credit points.

**Credit**

2. (1) A candidate may be granted credit towards satisfaction of degree requirements:

(a) in up to 160 credit points in recognition of subjects passed at this University or another tertiary institution which have not been previously counted towards a completed award; or

(b) in up to 10 credit points in recognition of subjects passed and previously counted in satisfaction of the requirements of a completed award; and

(c) in exceptional circumstances, in as many additional credit points as the Faculty Board, or its nominee, may determine.

2. (2) Credit granted may include up to 40 credit points in recognition of substantial professional or practical experience as approved by the Head of Department of Communication and Media Arts.
Bachelor of Arts (Communication Studies) / Bachelor of Laws

Award Abbreviations: BA(CommStud), LLB

The Bachelor of Arts (Communication Studies)/Bachelor of Laws combined degree program is offered by the Faculty of Arts and Social Sciences and the Faculty of Law. Within the combined degree program, students undertake 250 credit points of LLB subjects for the Bachelor of Laws, and a total of 150 credit points of Bachelor of Arts (Communication Studies) subjects.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/our/au/tafecredit.html

Program Structure

The Bachelor of Arts (Communication Studies)/Bachelor of Laws combined degree program is undertaken over five years of full-time study. To satisfy current degree requirements, candidates must undertake the following program comprising 150 credit points of Bachelor of Arts (Communication Studies) subjects and 250 credit points of LLB subjects.

Bachelor of Arts (Communication Studies) / Bachelor of Laws Subjects

Year 1

40 credit points at 100 level

- CMNS134 Introduction to Digital Communication: 10 credit points
- CMNS135 Introduction to Professional Writing: 10 credit points
- CMNS136 Introduction to Journalism: 10 credit points

Year 2

60 credit points at 200/300 level

- CMNS236 Introduction to Broadcast Journalism: 10 credit points
- CMNS237 Communication and Discourse: 10 credit points
- CMNS238 Applied Journalism: 10 credit points

Year 3

50 credit points at 300 level

- CMNS331 Creativity and Cultural Production: 10 credit points
- CMNS332 Media Ethics and Aesthetics: 10 credit points

Year 4

80 credit points

- CMNS401 Ethics, Aesthetics: 10 credit points
- CMNS402 Introduction to Law: 10 credit points
- CMNS403 Legal System & Method - Part A: 10 credit points
- CMNS404 Legal System & Method - Part B: 10 credit points

Year 5

80 credit points

The final 2 years of the combined degree program comprise study in only law subjects, because on successful completion of the first 3 years of the combined degree you will be eligible to graduate with Bachelor of Arts (Communication Studies) degree.

The total number of credit points required for the Bachelor of Arts (Communication Studies) degree is 240 and 250 credit points for the Bachelor of Laws degree.

Within the combined degree program there is a total of 150 credit points from Bachelor of Arts (Communication Studies) subjects.

Bachelor of Arts (Communication Studies) (Honours)

Award Abbreviation: BA(CommStud)(Hon)

The Bachelor of Arts (Communication Studies) degree is offered by the Faculty of Arts and Social Sciences. Students who have completed the Bachelor of Arts (Communication Studies) or another approved degree may apply for admission to the Bachelor of Arts (Communication Studies) (Honours).

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
<th>Semester Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMNS403</td>
<td>Communication Honours I</td>
<td>20</td>
<td>1, 2 Contact the Department of Communication and Media Arts</td>
</tr>
<tr>
<td>CMNS404</td>
<td>Communication Honours II</td>
<td>20</td>
<td>1, 2 Contact the Department of Communication and Media Arts</td>
</tr>
<tr>
<td>CMNS405</td>
<td>Communication Honours III</td>
<td>20</td>
<td>1, 2 Contact the Department of Communication and Media Arts</td>
</tr>
<tr>
<td>CMNS406</td>
<td>Communication Honours IV</td>
<td>20</td>
<td>1, 2 Contact the Department of Communication and Media Arts</td>
</tr>
</tbody>
</table>

Schedule

Admission to Candidate

1. In order to be admitted to candidature for the degree an applicant shall:
   a. have completed the requirements for admission to the degree of Bachelor of Arts (Communication Studies) of the University or to any other degree approved for this purpose by the Faculty Board; and
   b. have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department of Communication and Media Arts.

Qualifications for Admission to the Degree

2. To qualify for admission to the degree a candidate shall pass subjects at the 400 level totalling 80 credit points chosen from the list of Approved Subjects.

Classes of Honours

3. There shall be three classes of Honours, Class I, Class II and Class III. Class II shall have two divisions, namely Division I and Division II.

Time Requirements

4. Except with the permission of the Faculty Board, a candidate shall complete the course in not more than two years of study.
Bachelor of Arts (Honours)

Award Abbreviation: BA(Hons)

The Bachelor of Arts (Honours) degree is offered by the Faculty of Arts and Social Science. Applicants for the Honours program must have completed the requirements for admission to the degree of Bachelor of Arts or equivalent.

Honours programs are available in the following disciplines (subject areas): Ancient History, Cultural Studies, Drama, Economics, English, Film Studies, French, Geography, German, Greek, History, Japanese, Latin, Leisure and Tourism Studies, Linguistics, Mathematics, Philosophy, Politics, Psychology, and Sociology and Anthropology.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHIS414</td>
<td>Ancient History Honours I</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Classics</td>
</tr>
<tr>
<td>AHIS415</td>
<td>Ancient History Honours II</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Classics</td>
</tr>
<tr>
<td>AHIS416</td>
<td>Ancient History Honours III</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Classics</td>
</tr>
<tr>
<td>AHIS417</td>
<td>Ancient History Honours IV</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Classics</td>
</tr>
<tr>
<td>CULT401</td>
<td>Cultural Studies Honours I</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Leisure and Tourism Studies</td>
</tr>
<tr>
<td>CULT402</td>
<td>Cultural Studies Honours II</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Leisure and Tourism Studies</td>
</tr>
<tr>
<td>CULT403</td>
<td>Cultural Studies Honours III</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Leisure and Tourism Studies</td>
</tr>
<tr>
<td>CULT404</td>
<td>Cultural Studies Honours IV</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Leisure and Tourism Studies</td>
</tr>
<tr>
<td>DRAM405</td>
<td>Drama Honours I</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Drama</td>
</tr>
<tr>
<td>DRAM406</td>
<td>Drama Honours II</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Drama</td>
</tr>
<tr>
<td>DRAM407</td>
<td>Drama Honours III</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Drama</td>
</tr>
<tr>
<td>DRAM408</td>
<td>Drama Honours IV</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Drama</td>
</tr>
<tr>
<td>ECON410</td>
<td>Economics</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Economics</td>
</tr>
<tr>
<td>ECON411</td>
<td>Economics</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Economics</td>
</tr>
<tr>
<td>ECON412</td>
<td>Economics</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Economics</td>
</tr>
<tr>
<td>ECON413</td>
<td>Economics</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of Economics</td>
</tr>
<tr>
<td>ENGL407</td>
<td>English Honours I</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of English</td>
</tr>
<tr>
<td>ENGL408</td>
<td>English Honours II</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of English</td>
</tr>
<tr>
<td>ENGL409</td>
<td>English Honours III</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of English</td>
</tr>
<tr>
<td>ENGL410</td>
<td>English Honours IV</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of English</td>
</tr>
<tr>
<td>FILM401</td>
<td>Film Studies Honours I</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of English</td>
</tr>
<tr>
<td>FILM402</td>
<td>Film Studies Honours II</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of English</td>
</tr>
<tr>
<td>FILM403</td>
<td>Film Studies Honours III</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of English</td>
</tr>
<tr>
<td>FILM404</td>
<td>Film Studies Honours IV</td>
<td>20</td>
<td>1,2</td>
<td>Contact the Department of English</td>
</tr>
<tr>
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</table>
**Bachelor of Arts (Psychology)**

**Award Abbreviation:** BA(Psych)

The Bachelor of Arts (Psychology) degree course is offered by the Faculty of Arts and Social Science. This is a four year full-time or part-time equivalent program in which students undertake the majority of their studies in Psychology. Subjects in Psychology are complemented by subjects available in the Bachelor of Arts degree program. The Psychology subjects in the Bachelor of Arts (Psychology) course are identical to those in the Bachelor of Science (Psychology) course.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website at http://www.newcastle.edu.au/services/ous/rautust electrode/index.htm

**Professional Recognition**

Students who complete the course requirements are currently eligible to apply for provisional registration with the Psychologists Registration Board of the NSW Health Department. The course has been accredited by the Australian Psychological Society Ltd (APS) to meet its current requirements for Associate Membership at both Pass and Honours level.

**Program Requirements**

1. In order to qualify for the award, a student must pass 320 credit points from the list of Approved Subjects including:
   - (a) PSYC101, PSYC102 and SCIM101
   - (b) at least 40 credit points of 200 level Psychology subjects including PSYC207;
   - (c) at least 60 credit points of 300 level Psychology subjects including PSYC301;
   - (d) 80 credit points of 400 level Psychology subjects, taken at either Pass or Honours level.

2. A student may count a maximum of 80 credit points at 100 level.

3. A student may count a maximum of 60 credit points from Group B subjects which can be selected from other available undergraduate subjects, either from within the Faculty of Arts and Social Science or elsewhere.

### Schedule

#### Admission to Candidature

1. A candidate may undertake the honours degree in either one or two disciplines.
2. In order to be admitted to candidature for the degree in a single discipline an applicant shall:
   - (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Arts of the University or to any other degree approved by the Faculty Board;
   - (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Heads of the Department responsible for the discipline.
3. In order to be admitted to candidature for the degree in two disciplines, an applicant shall:
   - (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Arts of the University or to any other degree approved by the Faculty Board;
   - (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Heads of the Departments responsible for the discipline.

#### Qualification for Admission to the Degree

1. In order to qualify for admission to the degree a candidate shall pass subjects totalling 80 credit points at the 400 level chosen from the list of Approved Subjects.

2. Classes of Honours

5. There shall be three classes of Honours namely Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

3. Time Requirements

6. Except with the permission of the Faculty Board, a candidate shall complete the course in not less than one year and not more than two years of study.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Concurrent Knowledge (OK)</th>
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<tr>
<td>PSYC101</td>
<td>Psychology Introduction 1</td>
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<td>PSYC102</td>
<td>Psychology Introduction 2</td>
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<td>PSYC101</td>
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<td>SCIM101</td>
<td>Computing for Scientists</td>
<td>10</td>
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<tr>
<td>Arts Electives (See criteria below)*</td>
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<td>50</td>
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<td>Year 2 (80 credit points)</td>
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<tr>
<td>PSYC207</td>
<td>Experimental Methodology</td>
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<td>1</td>
<td>PSYC102, SCIM101</td>
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<tr>
<td>PSYC202</td>
<td>Basic Processes</td>
<td>10</td>
<td>2</td>
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<tr>
<td>PSYC208</td>
<td>Psychobiology</td>
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<td>2</td>
<td>PSYC102, PSYC207</td>
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<tr>
<td>PSYC209</td>
<td>Personality and Social Processes</td>
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<td>PSYC102, CK:PSYC207</td>
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<td>Year 3 (80 credit points)</td>
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<td>PSYC301</td>
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<td>PSYC207</td>
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<td>PSYC303</td>
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<td>2</td>
<td>PSYC207, PSYC202, PSYC301</td>
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<tr>
<td>PSYC304</td>
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<td>PSYC207</td>
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<tr>
<td>PSYC309</td>
<td>Topics in Forensic Science</td>
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<td>PSYC207, PSYC301</td>
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<td>Note: PSYC409A &amp; PSYC409B must be taken in one calendar year</td>
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Year 4 Honours Program - limited places available on application to the School of Behavioural Sciences to selected students who have completed all requirements of the first three years of the course as described above. Allocation of available places is based on performance in the best six PSYC 300 level subjects.
Bachelor of Arts/Bachelor of Commerce

Award Abbreviations: BA, BCom

The Bachelor of Arts/Bachelor of Commerce combined degree program is offered by the Faculty of Arts and Social Science and the Faculty of Economics and Commerce. This program allows students to undertake concurrent study in a Bachelor of Arts and a Bachelor of Commerce and to complete the requirements for the two degrees in four years of full-time study or the part-time equivalent.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/oustralia/tferred/index.htm

Program Structure

The Bachelor of Arts/Bachelor of Commerce combined degree program comprises 320 credit points of study.

Bachelor of Arts

To meet the current requirements of the Bachelor of Arts component of the program students must complete:

- 150 credit points in approved Group A subjects, selected from the following subject areas:
  - Aboriginal Studies, Ancient History, Chinese, Cultural Studies, Drama, Economics, English, Film Studies, French, Gender Studies, Geography, German, Greek, History, Japanese, Latin, Leisure and Tourism Studies, Linguistics, Mathematics, Philosophy, Politics, Psychology, Religious Studies, Sanskrit, Sociology and Anthropology.
  - a major sequence of study in a Group A subject area. To complete a major sequence of study students must pass at least 70 credit points in the one Group A subject area; 40 credit points at 300 level and the remaining 30 credit points at either 200 or 300 level.

Bachelor of Commerce

To meet the requirements of the Bachelor of Commerce component of the program, students must complete:

- 170 credit points from the list of Approved Subjects for the Bachelor of Commerce including compulsory 100 level subjects, and
- a Major Sequence in either: Financial Accounting; Management Accounting; or Finance (refer to Bachelor of Commerce entry for Major Sequence requirements).

Compulsory Subjects for Bachelor of Commerce

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<th>Subject Code</th>
<th>Subject Name</th>
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<tbody>
<tr>
<td>ACN101</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>RHR111</td>
<td>Introduction to Management and Organisational Behaviour</td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics I</td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics I</td>
</tr>
<tr>
<td>INF101</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>STAT102</td>
<td>Statistics for Business</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ECON113</td>
<td>Basic Economics and Quantitative Analysis 1</td>
</tr>
</tbody>
</table>

For further information regarding Major Sequence subjects and Electives, refer to entries for the Bachelor of Commerce.

Students should note that a maximum of 110 credit points is allowed at the 100 level in the combined degree program.

Students enrolled in a combined degree program belong to two faculties and are advised to consult the two faculty offices regarding their academic program.

Students may graduate with either award separately when the requirements for a single award have been met.

The following sample program is provided for guidance only.

Sample program for combined degree in Arts and Commerce:

<table>
<thead>
<tr>
<th>Year</th>
<th>Bachelor of Arts</th>
<th>Bachelor of Commerce</th>
<th>Total Credit Points</th>
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<td>40 credit points</td>
<td>80</td>
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<tr>
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<tr>
<td>Total</td>
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<td>170 credit points</td>
<td>320</td>
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Bachelor of Arts/Bachelor of Computer Science

Award Abbreviation: BA, BCompSc for continuing students only.

The Bachelor of Arts/Bachelor of Computer Science combined degree program is offered by the Faculty of Arts and Social Science and the Faculty of Engineering. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, this combined degree program offers greater breadth of learning, enhancing the academic and professional qualifications gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/oustralia/tferred/index.htm

Program Structure

The arts and computer science combined degree program is a four-year program comprising 370 credit points. In this program, students have the opportunity to select electives according to their individual areas of interest. To meet the current requirements of the Bachelor of Computer Science students must undertake the program of study below:

- 170 credit points from the list of approved subjects for the Bachelor of Computer Science including compulsory 100 level subjects, and
- a major sequence in either: Management Accounting; Finance (refer to Bachelor of Computer Science entry for major sequence requirements).
To meet the current requirements for the Bachelor of Arts component you must complete a minimum of 140 credit points of Arts Group A subjects including a major sequence of study. To complete a major sequence of study you must complete at least 30 credit points at 200 level and 40 credit points at 300 level. In one area of study chosen from Group A disciplines. Major areas of study available are: Aboriginal Studies, Classics, Classical Civilisation, Cultural Studies, Greek, Latin, Sanskrit, Drama, Economics, English, Film Studies, Gender Studies, Geography, History, Leisure and Tourism Studies, Linguistics, Mathematics, Modern Languages, Philosophy, Politics, Psychology, Religious Studies, Sociology and Anthropology. In choosing your major sequence of study you are advised to check any assumed knowledge at 100 level for your preferred subjects. For details, refer to the list of Approved Subjects in the Bachelor of Arts entry.

The Bachelor of Arts/Bachelor of Laws combined degree program has been agreed between the Faculty of Arts and Social Science and Faculty of Engineering based on 2001 course requirements. It may be varied as a result of future changes in the requirements of the course, or by agreement of the Deans of both of the faculties concerned.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAV101</td>
<td>Discrete Mathematics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG111</td>
<td>Introduction to Software Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG112</td>
<td>Introduction to Software Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG114</td>
<td>The Online Society</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>ELEC170</td>
<td>Computer Engineering 1</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>COMP105</td>
<td>Internet Communication</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>100 level Arts Group A subjects</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP225</td>
<td>Introduction to Algorithms</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG211</td>
<td>Software Analysis and Verification</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>COMP222</td>
<td>Theory of Computation</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG212</td>
<td>Software Process</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>100 level Computer Science Directed Elective</td>
<td>10</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td>200 level Computer Science Directed Elective</td>
<td>10</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td>100 level Group A Arts subjects</td>
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<td>1, 2</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>300 level Computer Science Directed Electives</td>
<td>60</td>
<td>1, 2</td>
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<tr>
<td></td>
<td>200 level Group A Arts subjects</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>300 level Group A Arts subjects</td>
<td>10</td>
<td>1</td>
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<tr>
<td></td>
<td>300 level Group A Arts subjects</td>
<td>40</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td>200 or 300 level Group A Arts subjects</td>
<td>30</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Total 320 Credit Points

For list of Approved Computer Science subjects and directed electives, refer to the course entry for Bachelor of Computer Science.

Bachelor of Arts/Bachelor of Laws

Award Abbreviations: BA, LLB

The Bachelor of Arts/Bachelor of Laws combined degree program is offered by the Faculty of Arts and Social Science and the Faculty of Law. This program involves completion of a minimum of 150 credit points of Bachelor of Arts subjects (including a major sequence of study), and 250 credit points of LLB subjects from the Bachelor of Laws, a total of 400 credit points for the combined degree program.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/loas/au/tafeed/index.htm.

Program Structure

The Bachelor of Arts/Bachelor of Laws combined degree program is normally undertaken over five years of full-time study. To satisfy the requirements for these degrees, candidates undertake the following program.

Bachelor of Arts

Year 1

- 40 credit points normally at 100 level in two Group A disciplines
- LLB103A Legal System & Method - Part A 10 credit points
- LLB103B Legal System & Method - Part B 10 credit points
- LLB104A Criminal Law and Procedure - Part A 10 credit points
- LLB104B Criminal Law and Procedure - Part B 10 credit points

Year 2

- 60 credit points in Group A disciplines at 200 or 300 level - 30 of which must be in one discipline at 200/300 level.
- LLB203A Torts - Part A 10 credit points
- LLB203B Torts - Part B 10 credit points
- LLB303A Contracts - Part A 10 credit points
- LLB303B Contracts - Part B 10 credit points
- LLB302 Property 10 credit points

Year 3

- 50 credit points in Group A disciplines - 40 of which must be at 300 level from the Group A discipline already undertaken as a major area of study in Year 2
- LLB303A Contracts - Part A 10 credit points
- LLB303B Contracts - Part B 10 credit points
- LLB302 Property 10 credit points

Year 4

- 80 credit points

Year 5

- 80 credit points

To meet the current requirements of the Bachelor of Arts degree you must complete a minimum of 150 credit points of Bachelor of Arts Group A subjects including a major sequence of study. A major sequence of study involves completion of at least 70 credit points at 200/300 level in one Group A discipline. 40 credit points of which must be at 300 level, and the remaining 30 credit points may be at 200 or 300 level. Major areas of study available are: Aboriginal Studies, Classics, Cultural Studies, Drama, Economics, English, Gender Studies, Geography, History, Leisure and Tourism Studies, Linguistics, Mathematics, Modern Languages, Philosophy, Politics, Psychology, Religious Studies.

Credit towards the Bachelor of Arts degree is granted for the 90 credit points of Bachelor of Laws subjects taken in the first three years, taking the total Bachelor of Arts credit points to 240. Thus on successful completion of the first three years of the combined degree program outlined above, you will have met the requirements for a Bachelor of Arts degree.

To meet the requirements of the Bachelor of Laws degree you must complete 250 credit points in the pattern indicated above.

Students transferring to the Bachelor of Arts/Bachelor of Laws degree program should note clause 5 of the Program Requirements for the Bachelor of Arts:

5. A student who has completed more than 40 credit points at the 100 level and who transfers to the combined Arts/Law program may count up to 100 credit points at the 100 level.

This means students transferring into a Bachelor of Arts/Bachelor of Laws combined degree program may count up to 60 credit points of Group A subjects at the 100 level towards their Bachelor of Arts. This then has implications for the remaining 90 credit points required for the Bachelor of Arts component of the program.

Further Information

Students enrolled in a combined degree program belong to two faculties and are advised to consult the two Faculty Offices regarding their academic program.

For details on approved subjects, refer to course descriptions for the Bachelor of Arts and the Bachelor of Laws.
The Bachelor of Arts/Bachelor of Science combined degree program has been agreed between the Faculty of Arts and Social Science and the Faculty of Science and Mathematics. This program offers students an opportunity to undertake concurrent study and complete two awards over four years of full-time study or the part-time equivalent.

In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualifications gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at [http://www.newcastle.edu.au/services/ousr/aau/tafecred/index.htm](http://www.newcastle.edu.au/services/ousr/aau/tafecred/index.htm)

**Program Structure**

The combined degree program requires the completion of subjects with a minimum total value of 320 credit points. To meet the requirements of the combined degree program students must undertake a program of study that incorporates the following requirements for each degree.

**Bachelor of Arts**

To meet the current requirements of the Bachelor of Arts within the combined degree program, students must complete at least 160 credit points of Group A subjects selected from the following disciplines: Aboriginal Studies, Ancient History, Cultural Studies, Drama, Economics, English, Film Studies, French, Gender Studies, Geography, German, Greek, History, Japanese, Latin, Leisure and Tourism Studies, Linguistics, Mathematics, Philosophy, Politics, Psychology, Religious Studies, Sociology and Anthropology.

A Major Sequence of study in a Group A discipline must be completed comprising 30 credit points at 200 level and 40 credit points at 300 level, all in the same discipline.

**Bachelor of Science**

To meet the current requirements for the Bachelor of Science within the combined degree program students must complete at least 150 credit points of Group A subjects selected from the following disciplines: Biological Sciences, Chemistry, Geography, Geology, Mathematics, Physics and Psychology.

At the 100 level, students must take two Group A subjects selected from each of three disciplines, totalling 60 credit points.

A Major Sequence of study in a Group A discipline must be completed comprising 20 credit points from one of the disciplines taken at 100 level, 30 credit points at 200 level, and 40 credit points at 300 level, all in the same discipline.

An additional 10 credit points unspecified must be completed towards one or other degree.

A minimum of 100 credit points at 300 level must be completed in total for the combined degree program, including 40 credit points to count towards the Bachelor of Arts and 60 credit points to count towards the Bachelor of Science.

A maximum of 120 credit points at 100 level is permitted in total for the combined degree program.

Students may graduate with either award separately when a total of 240 credit points has been completed, including the minimum requirements for each component as specified above. For details of Approved Subjects, refer to the course entries for the Bachelor of Arts and the Bachelor of Science. Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

---

**Bachelor of Arts/Bachelor of Social Work**

Award Abbreviations: BA, BSW

The Bachelor of Arts/Bachelor of Social Work combined degree program is offered by the Faculty of Arts and Social Science. The program comprises a total of 420 credit points over the two degrees - 280 credit points in the Social Work degree and 140 in the Arts degree, undertaken over five years of full-time study or the part-time equivalent.

An applicant for this combined degree program must have gained entry to the Bachelor of Social Work degree and have achieved a Credit grade average in subjects undertaken in that degree. An applicant is eligible to apply to transfer to the combined degree program when at least 40 credit points of the following compulsory subjects from the first year of the Bachelor of Social Work degree course have been completed: PSYC101, PSYC102, SOCA101, SOCA102, SWRK101A, SWRK101B.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at [http://www.newcastle.edu.au/services/ousr/aau/tafecred/index.htm](http://www.newcastle.edu.au/services/ousr/aau/tafecred/index.htm)

**Course Structure**

**Bachelor of Arts**

To meet the current requirements for the Bachelor of Arts component of the program, a student is required to complete 140 credit points from the following Group A subject areas: Aboriginal Studies, Ancient History, Chinese, Cultural Studies, Drama, Economics, English, Film Studies, French, Gender Studies, Geography, German, Greek, History, Japanese, Latin, Leisure and Tourism Studies, Linguistics, Mathematics, Philosophy, Politics, Psychology, Religious Studies, Sociology and Anthropology.

It is necessary to complete a major sequence of study totalling a minimum of 70 credit points in the same subject area, of which 40 credit points must be at 300 level and the remaining 30 credit points may be at 200 or 300 level.

For details on Approved subjects, refer to the Bachelor of Arts course description.

**Bachelor of Social Work**

A student is required to complete all compulsory subjects for the Social Work degree as listed below.

A maximum of 120 credit points is permitted at the 100 level for subjects taken in the combined degree program.

As combined degree programs can be complex, students are advised to consult the Faculty of Arts and Social Science Office regarding their academic program.

Students may graduate with either award separately when the requirements for a single award have been met.

Many disciplines (subject areas) within the Faculty of Arts and Social Science require students to complete a prescribed sequence of subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline’s requirements. Such requirements are mandatory when they lead to professional accreditation or when they involve the progressive acquisition of knowledge and skills. Before enrolling, students must consult the Department responsible for the discipline to ensure that they are satisfying its requirements. This is of particular significance when intending to pursue a major area of study in a particular discipline.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent Knowledge (CK)/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC101</td>
<td>Psychology Introduction 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PSYC102</td>
<td>Psychology Introduction 2</td>
<td>10</td>
<td>2</td>
<td>PSYC101</td>
</tr>
<tr>
<td>SOCA101</td>
<td>Introduction to Sociology &amp; Social Anthropology</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SOCA102</td>
<td>Introduction to Sociology &amp; Social Anthropology</td>
<td>10</td>
<td>2</td>
<td>SOCA101 or equivalent</td>
</tr>
<tr>
<td>SWRK101A</td>
<td>Introduction to Social Work Part A</td>
<td>10</td>
<td>1</td>
<td>Enrolled in Social Work Note: SWRK101A &amp; SWRK101B must be taken in one calendar year</td>
</tr>
<tr>
<td>SWRK101B</td>
<td>Introduction to Social Work Part B</td>
<td>10</td>
<td>2</td>
<td>SWRK101A Note: SWRK101A &amp; SWRK101B must be taken in one calendar year</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHL308</td>
<td>Ethical Issues</td>
<td>10</td>
<td>2</td>
<td>60 credit points</td>
</tr>
</tbody>
</table>
### Bachelor of Arts/Bachelor of Speech Pathology

**Award Abbreviations:** BA, BSPath

The Bachelor of Arts/Bachelor of Speech Pathology combined degree program is offered by the Faculty of Arts and Social Science. The program comprises a total of 410 credit points over the two degrees - 280 or 290 credit points in the Speech Pathology degree and 120 or 130 in the Arts degree, undertaken over five years of full-time study or the part-time equivalent.

An applicant for this combined degree program must have gained entry to the Bachelor of Speech Pathology degree and have achieved a Credit grade average in subjects undertaken in that degree. At least 40 credit points from the first year of the Bachelor of Speech Pathology degree course, including SPTH111 and SPTH112, must have been completed before an applicant is eligible for transfer to the combined degree.

#### TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at [http://www.newcastle.edu.au/services/ousr/aau/tafecredit/index.htm](http://www.newcastle.edu.au/services/ousr/aau/tafecredit/index.htm).

#### Program Structure

**Bachelor of Arts**

To meet the current requirements for the Bachelor of Arts component of the program, a student must complete a minimum of 130 or 120 credit points (depending on whether SPTH112 is chosen in the Bachelor of Speech Pathology component), from the following Group A subject areas: Aboriginal Studies, Ancient History, Chinese, Cultural Studies, Drama, Economics, English, Film Studies, French, Gender Studies, Geography, German, Greek, History, Japanese, Latin, Leisure and Tourism Studies, Linguistics, Mathematics, Philosophy, Politics, Psychology, Religious Studies, Sanskrit, Sociology, and Anthropology.

A major area of study must be undertaken. This involves completion of a minimum of 70 credit points in the one Group A subject area of which must be at 300 level and the remaining 30 credit points may be at 200 or 300 level.

For details on approved subjects, refer to the Bachelor of Arts course description.

**Bachelor of Speech Pathology**

A student is required to complete the compulsory subjects approved for the Bachelor of Speech Pathology degree as listed below.

A maximum of 120 credit points is permitted at the 100 level for subjects taken in the combined degree program.

As combined degree programs can be complex, students are advised to consult the Faculty of Arts and Social Science Office regarding their academic program.

Students may graduate with either award separately when the requirements for a single award have been met.

Many disciplines (subject areas) within the Faculty of Arts and Social Science require students to complete a prescribed sequence of subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline’s requirements. Such requirements are mandatory when they lead to professional accreditation or when they involve the progressive acquisition of knowledge and/or skills. Before enrolling, students must consult the Department responsible for the discipline to ensure that they are satisfying its requirements. It is of particular significance when intending to pursue a major area of study in a particular discipline.

#### Subject Code

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent Knowledge (CK) / Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTH111</td>
<td>Speech Pathology Introduction 1</td>
<td>10</td>
<td>1</td>
<td>Enrolled in B Speech Pathology</td>
</tr>
<tr>
<td>SPTH112</td>
<td>Speech Pathology Introduction 2</td>
<td>10</td>
<td>2</td>
<td>SPTH111</td>
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<tr>
<td>HUSB101</td>
<td>Human Biology</td>
<td>10</td>
<td>1</td>
<td>HUSB101</td>
</tr>
<tr>
<td>ANAT103</td>
<td>Anatomy for Speech Pathology</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>LG101</td>
<td>Foundations of Language</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LG112</td>
<td>Language Structure and Meaning</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PSYC101</td>
<td>Psychology Introduction 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PSYC102</td>
<td>Psychology Introduction 2</td>
<td>10</td>
<td>2</td>
<td>PSYC101</td>
</tr>
<tr>
<td>CLIN102</td>
<td>Clinical Practice</td>
<td>10</td>
<td>1, 2</td>
<td>SPTH112, CK: SPTH221</td>
</tr>
<tr>
<td>SPHC101</td>
<td>Speech Pathology in Education and Community Settings</td>
<td>10</td>
<td>1</td>
<td>SPTH112</td>
</tr>
</tbody>
</table>
The core program for the course is contained in the first and second years and the first half of third year.

Course Scientific Data Qualification for the award of Bachelor of Biomedical Sciences will be able to select subjects from a range of options.

Evaluation will be continuous throughout the course by the Faculty of Medicine and Health Sciences, and will include appointments to the University, at http://www.newcastle.edu.au/services/aus/tafecred/index.htm

Schedule

Qualification for the Degree
1. To qualify for admission to the degree, candidates shall complete the requirements of the course program as determined by Faculty Board which shall consist of subjects totaling not less than 240 credit points and include:
   (a) at least 80 credit points from 100 level subjects;
   (b) at least 60 credit points from 200 level subjects; and
   (c) at least 60 credit points from 300 level subjects.

Credit
2. (1) Credit may be granted in a maximum of 160 credit points except that:
   (a) no more than 110 credit points may be granted for work conducted towards a completed award; and
   (b) the Faculty Board may grant such additional credit as it determines to be appropriate for subjects completed in the University which have not been counted towards a completed award.

   (2) Except with the permission of the Dean, candidates granted credit shall be deemed to have commenced study from a date determined by the Dean.

Time Requirements
3. (1) Except with the permission of the Faculty Board, a candidate shall complete the requirements of the course program as determined by Faculty Board within the University which have not been counted towards a completed award.

   (2) A candidate granted credit shall be deemed to have commenced study from a date determined by the Dean.

Assumed Knowledge

Year 1

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCM101</td>
<td>Biomolecular Analysis</td>
<td>10</td>
<td>2</td>
<td>CHEM101</td>
</tr>
<tr>
<td>BDI103</td>
<td>Scientific Data Evaluation</td>
<td>10</td>
<td>1</td>
<td>2 Unit HSC Mathematics</td>
</tr>
<tr>
<td>CHEM101</td>
<td>Chemistry 101</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM102</td>
<td>Chemistry 102</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HUBS101</td>
<td>Human Bioscience 1A</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HUBS102</td>
<td>Human Bioscience 1B</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MATH111</td>
<td>Mathematics 111</td>
<td>10</td>
<td>2</td>
<td>2 Unit HSC Mathematics</td>
</tr>
<tr>
<td>PHYS110</td>
<td>Introductory Physics for Life Sciences</td>
<td>10</td>
<td>3</td>
<td>2 Unit HSC Mathematics</td>
</tr>
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</table>

Year 2

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUBS224</td>
<td>Human Structure and Function Part 1</td>
<td>20</td>
<td>1</td>
<td>BCM101, Enrolment in Bachelor of Biomedical Science</td>
</tr>
<tr>
<td>HUBS225</td>
<td>Human Structure and Function Part 2</td>
<td>20</td>
<td>1</td>
<td>BCM101, Enrolment in Bachelor of Biomedical Science</td>
</tr>
</tbody>
</table>

Approved Electives

in addition to the four compulsory subjects in Year 3, students must complete 40 credit points of Elective Subjects from the list of Approved Electives, subject to availability. One of these subjects can be a 10 credit point subject, at either 100, 200 or 300 level, offered by another Department within the University, subject to availability.

Subject Code | Subject Name                      | Credit Points | Semester | Assumed Knowledge     |
|--------------|-----------------------------------|---------------|----------|-----------------------|

Bachelor of Biomedical Science

Award Abbreviation: BBlmed Sc

The Bachelor of Biomedical Science is offered by the Faculty of Medicine and Health Sciences. The course provides students with an excellent basic knowledge in biomedical sciences. It is envisaged that students would find employment in biomedical research, pathology, veterinary science and hospital laboratories, biotechnology and pharmaceutical industries, government and industry laboratories.

The core program for the course is contained in the first and second years and the first half of third year, in the second half of third year students will be able to select subjects from a range of options.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/aus/tafecred/index.htm

Course Structure

Qualification for the award of Bachelor of Biomedical Science requires the completion of 240 credit points.
Bachelor of Biomedical Science (Honours)

Award Abbreviation: BBiomedSc(Hon)

The Bachelor of Biomedical Science (Honours) is offered by the Faculty of Medicine and Health Sciences. This program is an academic extension of the Bachelor of Biomedical Science. The student will select a project from the range offered and undertake a research program specializing in a particular discipline from among the biomedical sciences.

Students who achieve a superior level of performance in the Bachelor of Biomedical Science of this university or any other degree approved by the Faculty Board will be able to undertake an Honours program.

Course Structure

The Honours degree may be completed over one year of full-time study or two years part-time. Qualification for the award of Bachelor of Biomedical Science (Honours) requires the completion of 80 credit points.

Admission Requirements

1. Unless otherwise granted permission by the Faculty Board, students must have completed their previous studies with a Grade Point Average of Credit or higher (based on total studies in their prior degree).

2. Permission for admission to candidature for the Bachelor of Biomedical Science (Honours) must be granted by the Bachelor of Biomedical Science Course Management Committee.

Course Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUB5411</td>
<td>Biomedical Science Honours 411</td>
<td>20</td>
<td>1 or 2</td>
</tr>
<tr>
<td>HUB5412</td>
<td>Biomedical Science Honours 412</td>
<td>20</td>
<td>1 or 2</td>
</tr>
<tr>
<td>HUB5413</td>
<td>Biomedical Science Honours 413</td>
<td>20</td>
<td>1 or 2</td>
</tr>
<tr>
<td>HUB5414</td>
<td>Biomedical Science Honours 414</td>
<td>20</td>
<td>1 or 2</td>
</tr>
</tbody>
</table>

Schedule

Admission to Candidature

1. In order to be admitted to candidature for the degree an applicant shall:

   (a) have completed the requirements for admission to the degree of Bachelor of Biomedical Science of the University or to any other degree approved by the Faculty Board; and

   (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Dean

Qualification for Admission to the Degree

2. To qualify for admission to the degree a candidate shall pass subjects at the 400 level totalling 80 credit points chosen from the subjects approved by Faculty Board.

Classes of Honours

3. There shall be three classes of honours: Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

Time Requirements

4. Except with the permission of the Faculty Board, a candidate shall complete the course in not more than two years of study.

Bachelor of Business (Callaghan Campus)

Award Abbreviation: BBus

The Bachelor of Business is one of the most popular and dynamic degrees offered by the Faculty of Economics and Commerce, which will provide you with skills for work in many areas of business including the opportunity to progress in a business management career. This is a three year full-time (or equivalent part-time) course which starts with a broad core of subjects and then progresses to one of the four major sequences of study offered in the degree: Industrial Relations/Human Resource Management, International Business, Management or Marketing. Students must complete at least one major sequence, but are able to complete two. It is possible to complete a second major sequence from subjects offered by other Faculties.


Career opportunities include retail management, advertising and promotions management, business management, marketing, or personnel management in the private or public sector. The course has a practical orientation, with students learning from case studies of real business situations.

Students who complete the Industrial Relations/Human Resource Management Major Sequence of the degree are eligible to apply for membership of the Australian Human Resources Institute.

Honours: Available as an additional year to students who have achieved a credit grade point average.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/student/tafecredit/index.htm

Enhanced TAFE-University articulation arrangements are in place for this degree for students who have completed one the following TAFE NSW courses:

- Advanced Diploma in Business (Management)
- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Course Structure

To complete the degree, students must pass subjects totalling 240 credit points (generally made up of 24 subjects worth 10 credit points each). The course program has three distinct components: core subjects, a major sequence and elective subjects. Many students choose to undertake a second major to enhance their employment opportunities.

The 240 credit points required to complete the degree must include:

- All Core Subjects
- A major sequence in either Marketing, Industrial Relations/Human Resource Management, Management
- No more than 100 credit points at 100 level
- At least 60 credit points at 300 level

Core and Major Sequence Subjects - Management Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level - Management Major Sequence</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Core</td>
<td></td>
<td></td>
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<tr>
<td>AC1101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON110</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Microeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>WRIT111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1, 2</td>
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</tr>
<tr>
<td>LAW111</td>
<td>Foundations of Law</td>
<td>10</td>
<td>1</td>
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<tr>
<td>INFO111</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>STAT125</td>
<td>Statistics for Business</td>
<td>10</td>
<td>1, 2</td>
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</tr>
<tr>
<td>MGMT130</td>
<td>Marketing Principles</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>* plus elective subjects</td>
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</table>
### Marketing Major Sequence

#### 200 level - Management Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
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<tbody>
<tr>
<td>ACF110</td>
<td>Financial Management for Business</td>
<td>10</td>
<td>1</td>
<td>ACF1101</td>
</tr>
<tr>
<td>IRHR220</td>
<td>Business Communications</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>MKTG226</td>
<td>Business Venturing</td>
<td>10</td>
<td></td>
<td>IRHR111</td>
</tr>
</tbody>
</table>

**Plus choose one of:**

- ACF120 Introduction to Financial Planning (10, 2, ACF1101)
- ECON110 Introduction to International Trade and Finance (10, 1, ECON111)
- ECON254 Money and Banking (10, 1, ECON111)
- ECRM201 Business Research Methods (10, 1, STAT105 and 50 credit points at 200 level or equivalent)
- IRHR201 Introduction to Industrial Relations (10, 1, IRHR111)
- IRHR227 Human Resource Management (10, 2, IRHR111)
- INFO202 Analysis of Information Systems (10, 1, INFO101)
- MATH213 Operations Management (10, 1, MATH111 or MATH121 or MATH151 or ECON113 or STAT105 or STAT101)
- MKTG200 Consumer Behaviour (10, 1, MKTG100)

*Plus elective subjects

### Compulsory Major Sequence Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</thead>
<tbody>
<tr>
<td>IRHR228</td>
<td>Organisational Structure and Design</td>
<td>10</td>
<td>1</td>
<td>IRHR111</td>
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<tr>
<td>MKTG226</td>
<td>Business Venturing</td>
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<td>IRHR111</td>
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#### 300 level - Management Major Sequence

<table>
<thead>
<tr>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<tbody>
<tr>
<td>IRHR322</td>
<td>Contemporary Management Issues</td>
<td>10</td>
<td>1</td>
<td>MKTG226</td>
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<tr>
<td>PHIL393</td>
<td>Human Values and Commercial Practice</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MKTG301</td>
<td>Strategic Management</td>
<td>10</td>
<td>2</td>
<td>IRHR228 and MKTG226</td>
</tr>
</tbody>
</table>

**Plus choose two of:**

- ECON206 International Business and Finance (10, 2, ECON252 or both ECON250 and ECON251)
- ECON222 Money and Finance (10, 2, ECON254 or both ECON250 and ECON251)
- ECRM201 Business Research Methods (10, 1, STAT105 or STAT110 or ECON113 and 30 credit points at 200 level)
- IRHR301 Advanced Employment Relations (10, 2, IRHR201 and IRHR227)
- IRHR307 Human Resource Development (10, 1, IRHR277)
- IRHR354 International Human Resource Management (10, 1, IRHR227)
- INFO303 Information Systems and the Organisation (10, 2, INFO202)
- MKTG304 Services Marketing (10, 2, MKTG200)
- MKTG305 Retail Management (10, 1, MKTG200)
- MKTG341 Entrepreneurship (10, 2, MKTG226)
- MKTG343 Enterprise Development (10, 1, MKTG226)
- STAT310 Total Quality Management (10, 2, 40 credit points at 200 level)

*Plus elective subjects

**Elective Subjects:**

As well as the Core Subjects and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or other subjects offered by the Faculty of Economics and Commerce and/or subjects from outside the Faculty of Economics and Commerce. See list of Subjects Offered by the Faculty of Economics and Commerce.
### Core and Major Sequence Subjects - Industrial Relations/Human Resource Management Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level - Industrial Relations/Human Resource Management Major Sequence</td>
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<tr>
<td><strong>Core</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACHR101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>EC110</td>
<td>Microeconomics</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>ECON111</td>
<td>Macroeconomics</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>IRHR111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>INFO101</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>STAT105</td>
<td>Statistics for Business</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>LAW101</td>
<td>Foundations of Law</td>
<td>10</td>
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</table>

* Plus elective subjects

**Compulsory Management Major Sequence Subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</thead>
<tbody>
<tr>
<td>IRHR201</td>
<td>Introduction to Industrial Relations</td>
<td>10</td>
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<td>IRHR111</td>
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<tr>
<td>IRHR227</td>
<td>Human Resource Management</td>
<td>10</td>
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<td>IRHR111</td>
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</table>

*Plus choose one of:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON230</td>
<td>Introductory Labour Economics</td>
<td>10</td>
<td>2</td>
<td>ECON110 and ECON111</td>
</tr>
<tr>
<td>IRHR202</td>
<td>Australian Industrial Relations Systems</td>
<td>10</td>
<td>2</td>
<td>IRHR101</td>
</tr>
<tr>
<td>IRHR228</td>
<td>Organisational Structures and Design</td>
<td>10</td>
<td>1</td>
<td>IRHR111</td>
</tr>
<tr>
<td>IRHR240</td>
<td>Australian Labour History</td>
<td>10</td>
<td>2</td>
<td>IRHR111</td>
</tr>
<tr>
<td>LAW225</td>
<td>The Law of Employment</td>
<td>10</td>
<td>1</td>
<td>LAW101</td>
</tr>
<tr>
<td>SOCA203</td>
<td>Work in Industrial Society</td>
<td>10</td>
<td>1</td>
<td>IRHR111</td>
</tr>
</tbody>
</table>

*Plus elective subjects

**200 level - Industrial Relations/Human Resource Management Major Sequence**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 level - International Business Major Sequence</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Core</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACHR110</td>
<td>Financial Management for Business</td>
<td>10</td>
<td>1</td>
<td>ACHR101</td>
</tr>
<tr>
<td>IRHR220</td>
<td>Business Communications</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
</tbody>
</table>

| **Compulsory Management Major Sequence Subjects** | | | | |
| IRHR201 | Introduction to Industrial Relations | 10 | 1 | IRHR111 |
| IRHR227 | Human Resource Management | 10 | 2 | IRHR111 |

*Plus choose one of:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
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<tbody>
<tr>
<td>ECON230</td>
<td>Introductory Labour Economics</td>
<td>10</td>
<td>2</td>
<td>ECON110 and ECON111</td>
</tr>
<tr>
<td>IRHR202</td>
<td>Australian Industrial Relations Systems</td>
<td>10</td>
<td>2</td>
<td>IRHR101</td>
</tr>
<tr>
<td>IRHR228</td>
<td>Organisational Structures and Design</td>
<td>10</td>
<td>1</td>
<td>IRHR111</td>
</tr>
<tr>
<td>IRHR240</td>
<td>Australian Labour History</td>
<td>10</td>
<td>2</td>
<td>IRHR111</td>
</tr>
<tr>
<td>LAW225</td>
<td>The Law of Employment</td>
<td>10</td>
<td>1</td>
<td>LAW101</td>
</tr>
<tr>
<td>SOCA203</td>
<td>Work in Industrial Society</td>
<td>10</td>
<td>1</td>
<td>IRHR111</td>
</tr>
</tbody>
</table>

*Plus elective subjects

### Core and Major Sequence Subjects - International Business Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level - International Business Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Core</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ACHR101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>IRHR111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1, 2</td>
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</tr>
<tr>
<td>INFO101</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>STAT105</td>
<td>Statistics for Business</td>
<td>10</td>
<td>1, 2</td>
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</tr>
<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>LAW101</td>
<td>Foundations of Law</td>
<td>10</td>
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</table>

* Plus elective subjects

**Compulsory Major Sequence Subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</thead>
<tbody>
<tr>
<td>ECON257</td>
<td>International Business Environment</td>
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*Plus choose three of:

<table>
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<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</thead>
<tbody>
<tr>
<td>ECO110</td>
<td>Asian Business Development</td>
<td>10</td>
<td>N/A 2001</td>
<td>30 credit points</td>
</tr>
<tr>
<td>ECON252</td>
<td>Introduction to International Trade and Finance</td>
<td>10</td>
<td>1</td>
<td>ECON110 and ECON111</td>
</tr>
<tr>
<td>INFO101</td>
<td>Electronic Commerce and Organisational Structures</td>
<td>10</td>
<td>2</td>
<td>INFO101</td>
</tr>
<tr>
<td>IRHR227</td>
<td>Human Resource Management</td>
<td>10</td>
<td>2</td>
<td>IRHR111</td>
</tr>
<tr>
<td>MKTG200</td>
<td>Consumer Behaviour</td>
<td>10</td>
<td>1</td>
<td>MKTG100</td>
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</tbody>
</table>

*Plus elective subjects

**300 level - International Business Major Sequence**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 level - International Business Major Sequence</td>
<td></td>
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<tr>
<td><strong>Compulsory Major Sequence Subjects</strong></td>
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<tr>
<td>MKTG315</td>
<td>International Business Issues and Cases</td>
<td>10</td>
<td>1, 2</td>
<td>ECON204</td>
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*Plus choose two of:

<table>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</thead>
<tbody>
<tr>
<td>ACHR12</td>
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<tr>
<td>ACHR14</td>
<td>International Finance</td>
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<td>ACHR101</td>
</tr>
<tr>
<td>ECON236</td>
<td>International Business and Finance</td>
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<td>2</td>
<td>ECON252 or both ECON250 and ECON251</td>
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<tr>
<td>IRHR302</td>
<td>International and Comparative Industrial Relations</td>
<td>10</td>
<td>1</td>
<td>IRHR201</td>
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<tr>
<td>IRHR234</td>
<td>International Human Resource Management</td>
<td>10</td>
<td>2</td>
<td>IRHR227</td>
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<tr>
<td>MKTG206</td>
<td>International Marketing</td>
<td>10</td>
<td>2</td>
<td>MKTG200</td>
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<td>MKTG319</td>
<td>International Business Project</td>
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</table>

*Credit average in course work completed in previous five semesters

*Plus elective subjects

**Elective Subjects**

As well as the Core Subjects and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or other subjects offered by the Faculty of Economics and Commerce and/or subjects from outside the Faculty. See list of Subjects Offered by the Faculty of Economics and Commerce.
Approved Subjects

List includes subjects commonly undertaken by students in the Bachelor of Business.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td>ACH101</td>
</tr>
<tr>
<td>ACH102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td>ACH101</td>
</tr>
<tr>
<td>COMP110</td>
<td>Introduction to Programming</td>
<td>5</td>
<td>1</td>
<td>(Not available to B Business or B Information Science students)</td>
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<td>ECON110</td>
<td>Microeconomics</td>
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<td>1, 2</td>
<td>ACH101</td>
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<tr>
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<td>Microeconomics</td>
<td>10</td>
<td>1, 2</td>
<td>ACH101</td>
</tr>
<tr>
<td>ECON113</td>
<td>Basic Econometrics and Quantitative Analysis</td>
<td>10</td>
<td>1, 2</td>
<td>ACH101</td>
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<tr>
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<td>Introduction to Information Systems</td>
<td>10</td>
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<td>ACH101</td>
</tr>
<tr>
<td>INFO102</td>
<td>Information Storage and Management</td>
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<td>IRHR111</td>
<td>Introduction to Management and Organisational Behaviour</td>
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<td>ACH101</td>
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<td>Foundations of Law</td>
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<td>LEIS106</td>
<td>Introduction to Tourism</td>
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<td>ACH101</td>
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<td>LEIS111</td>
<td>Leisure and Society</td>
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<td>LEIS112</td>
<td>Leisure Organisation in Australia</td>
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<td>ACH101</td>
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200 level

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### Schedule

**Qualification for the Degree**

1. To qualify for admission to the degree, a candidate shall complete a program approved by the Faculty Board totaling not less than 240 credit points from the list of Approved Subjects, and including:
   (a) the core subjects prescribed for the course by the Faculty Board;
   (b) a major sequence of subjects approved by the faculty course (if any);
   (c) not more than 100 credit points from 100 level subjects, and
   (d) at least 60 credit points from 300 level subjects.

2. Where two approved major sequences are completed within the single degree, an overlap of not more than 20 credit points is permitted between major or sequence subjects at 300 level.

**Credit**

3. (1) A candidate of University of New South Wales, or of another tertiary institution may be granted credit in subjects totaling not more than 120 credit points.
Bachelor of Business (Central Coast Campus)

Award

The Bachelor of Business (Central Coast) is offered by the Faculty of Economics and Commerce. The Faculty of the Central Coast is responsible for the course as it is conducted on the Central Coast Campus. This is a three year full-time (or equivalent part-time) course which aims to produce graduates who may be employed in a wide variety of fields and who will progress, with experience, into middle and senior management positions. The major sequence of study offered in the degree is in Management.

The Bachelor of Business degree on the Central Coast is being replaced by the Bachelor of Management degree. The Bachelor of Business is not available to new students, and will not be offered on the Central Coast beyond 2004. Further information with regard to transition arrangements will be made available to Bachelor of Business students.

Career opportunities include business management, marketing, or human resource management in the private or public sector. The course has a practical orientation, with students learning from case studies of real business situations.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/coursofau/tafearticulation/index.htm

Enhanced TAFE-University articulation arrangements are in place for this degree. Students who have completed the following TAFE NSW courses may receive up to one year's credit towards the Bachelor of Business:

- Advanced Diploma in Business (Management)
- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Course Structure

To complete the degree, students must pass subjects totalling 240 credit points (generally comprising 24 subjects of 10 credit points each). The course program has three distinct components: Core Subjects, a Major Sequence, and Elective subjects which may include a second Major, but must also include 60 credit points at 300 level.

The 240 credit points required to complete the degree must include:

- All 100 level Core subjects
- A major sequence in either Management or Hotel Management
- No more than 100 credit points at 100 level
- At least 60 credit points at 300 level

Core & Major Sequence Subjects - Management Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI101C</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ECON101C</td>
<td>Microeconomics</td>
<td>10</td>
<td>1</td>
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</tbody>
</table>

Elective Subjects

As well as the Core Subjects and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or other subjects offered by the Faculty of Economics and Commerce or the Faculty of the Central Coast, and/or subjects from outside these Faculties. See list of Subjects offered on the Central Coast Campus.
# Subjects Offered on the Central Coast Campus

The following list includes subjects offered on the Central Coast Campus, and commonly undertaken by students in the Bachelor of Business.

Note: ACFI codes were previously COMM. ACFI101C was COMM101, IRHR codes were previously EMPS i.e EMPS111 was EMPS111.

### 100 Level

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI101C*</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BUS110</td>
<td>People and Profits in Business</td>
<td>10</td>
<td>2</td>
<td>ACFI101C</td>
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<tr>
<td>BUS113</td>
<td>Australian Government and Politics</td>
<td>10</td>
<td>N/A 2001</td>
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<tr>
<td>BUS125</td>
<td>Foundations of Accounting Practice</td>
<td>10</td>
<td>1</td>
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<tr>
<td>BUS150</td>
<td>The New Marketer</td>
<td>10</td>
<td>2</td>
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<tr>
<td>BUS190</td>
<td>Data, Decisions and Directions</td>
<td>10</td>
<td>2</td>
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<tr>
<td>BUS193</td>
<td>Electronic Business</td>
<td>10</td>
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<tr>
<td>BUS195</td>
<td>Economics of Business</td>
<td>10</td>
<td>2</td>
<td>Not to be taken with ECON111</td>
</tr>
<tr>
<td>ECON110C</td>
<td>Microeconomics 1</td>
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<tr>
<td>ECON111C</td>
<td>Macroeconomics 1</td>
<td>10</td>
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<td>Not to be taken with BUS192</td>
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<tr>
<td>INFO101C</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1</td>
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<tr>
<td>INF111C*</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1</td>
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<tr>
<td>LAW101C</td>
<td>Foundations of Law</td>
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<tr>
<td>MATH171C</td>
<td>Mathematics for the Life Sciences 1</td>
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<tr>
<td>MATH172C</td>
<td>Mathematics for the Life Sciences 2</td>
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<td>MGMT100C*</td>
<td>Marketing Principles</td>
<td>10</td>
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<td>Not to be taken in conjunction with BUS160</td>
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<tr>
<td>STAT105C</td>
<td>Statistics for Business</td>
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<tr>
<td>TAFE101</td>
<td>Systems Analysis &amp; Design</td>
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<td>TAFE102</td>
<td>End User Support</td>
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<tr>
<td>TAFE103</td>
<td>Applications Programming</td>
<td>10</td>
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<td>TAFE104</td>
<td>Website Construction</td>
<td>10</td>
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<td>TAFE105</td>
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<td>TAFE106</td>
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<td>TAFE108</td>
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### 200 Level

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<th>Semester</th>
<th>Assumed Knowledge</th>
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<tbody>
<tr>
<td>ACFI201C</td>
<td>Corporate Accounting and Reporting</td>
<td>10</td>
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<td>ACFI101C</td>
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<tr>
<td>ACFI202C</td>
<td>Corporate Financial Regulation and Control</td>
<td>10</td>
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<td>ACFI203C</td>
<td>Costing Principles and Method</td>
<td>10</td>
<td>1</td>
<td>ACFI101C</td>
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<tr>
<td>ACFI204C</td>
<td>Planning, Control and Performance Evaluation</td>
<td>10</td>
<td>2</td>
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<tr>
<td>ACFI207C</td>
<td>Business Finance</td>
<td>10</td>
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<td>ACFI102C, ECON110C, ECON111C, and STAT105C</td>
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<td>ACFI208C</td>
<td>Corporate Decision Making</td>
<td>10</td>
<td>2</td>
<td>ACFI207C</td>
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<tr>
<td>ACFI209C</td>
<td>Introduction to Financial Planning</td>
<td>10</td>
<td>N/A 2001</td>
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<tr>
<td>BUS201</td>
<td>Contemporary Sport and Club Management</td>
<td>10</td>
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<tr>
<td>BUS220</td>
<td>Accounting &amp; Legal Aspects of Partnerships &amp; Companies</td>
<td>10</td>
<td>N/A 2001</td>
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<tr>
<td>BUS225</td>
<td>The Regulatory Environment of Business</td>
<td>10</td>
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<td>BUS230</td>
<td>Value Creation Through Managerial Control</td>
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<td>BUS235</td>
<td>Investment Decisions and Management</td>
<td>10</td>
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<td>BUS240</td>
<td>Managing for Performance</td>
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<td>BUS245</td>
<td>Learning in Organizations</td>
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<td>BUS250</td>
<td>The Integrative Marketer</td>
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<td>BUS255</td>
<td>Leadership in Contemporary Organisations</td>
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<td>BUS260</td>
<td>The Integrated Marketer</td>
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<td>BUS265</td>
<td>Managing Marketing Messages</td>
<td>10</td>
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<td>Creating Customer Satisfaction</td>
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<td>BUS280</td>
<td>Information Systems Development</td>
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<td>BUS285</td>
<td>Marketing Strategic Planning</td>
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<td>BUS290</td>
<td>Food and Beverage Management</td>
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<td>BUS291</td>
<td>Hospitality Operations Management</td>
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<td>BUS292</td>
<td>Hotel and Resort Management</td>
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<td>BUS293</td>
<td>Introduction to the Tourism Industry</td>
<td>10</td>
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<td>BUS294</td>
<td>Tourism Behaviour and Interactions</td>
<td>10</td>
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<tr>
<td>BUS295</td>
<td>Introduction to Industrial Relations</td>
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<td>BUS296</td>
<td>Business Communications</td>
<td>10</td>
<td>N/A 2001</td>
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<td>BUS297C*</td>
<td>Human Resource Management</td>
<td>10</td>
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<td>BUS298</td>
<td>Organisational Structures and Design</td>
<td>10</td>
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<td>IRHR111C</td>
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<td>LAW204C</td>
<td>Law of Business Organisations</td>
<td>10</td>
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<td>LAW101C</td>
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<td>LAW205C</td>
<td>Contract Law 1</td>
<td>10</td>
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<td>LAW101C</td>
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<td>MGMT100C</td>
<td>New Venture Creation</td>
<td>10</td>
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<td>MENT200</td>
<td>Entrepreneurial Diversity</td>
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<tr>
<td>MENT210</td>
<td>Entrepreneurial Diversity</td>
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<tr>
<td>MENT220</td>
<td>Entrepreneurial Diversity</td>
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<tr>
<td>MGMT101C</td>
<td>Consumer Behaviour</td>
<td>10</td>
<td>1</td>
<td>MKTG100C or BUS160</td>
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<tr>
<td>MGMT102C</td>
<td>Consumer Behaviour</td>
<td>10</td>
<td>1</td>
<td>MKTG100C or BUS160</td>
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<tr>
<td>MGMT201C</td>
<td>Marketing Research</td>
<td>10</td>
<td>2</td>
<td>MKTG100C and STAT105C</td>
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<tr>
<td>MGMT202C</td>
<td>Advertising and Promotions Management</td>
<td>10</td>
<td>1</td>
<td>MKTG100C or BUS160</td>
</tr>
<tr>
<td>MGMT203C*</td>
<td>Business Venturing</td>
<td>10</td>
<td>2</td>
<td>IRHR111C</td>
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</tbody>
</table>
TAFE201 Advanced Programming 10 1 TAFE203
Subject to availability of IT resources
TAFE202 Operating Systems 10 1 TAFE102
Subject to availability of IT resources
TAFE203 Computer Networks 10 2 TAFE102
Subject to availability of IT resources
TAFE204 Database Construction 10 2 BUS190 or INFO101C
Subject to availability of IT resources
TAFE205 Gaming Management 10

Subject Code Subject Name Credit Points Semester Assumed Knowledge

300 Level
ACFI301C Financial Accounting Theory Construction 10 1 ACFI202C (Not to be taken with BUS320)
ACFI302C Reconstruction of Accounting 10 2 ACFI202C
ACFI303C Accounting and Decision Support Systems 10 2 ACFI204C
ACFI305C Auditing Theory and Method 10 1 ACFI202C
ACFI306C Taxation B 10 2 ACFI313C
ACFI312C International Accounting 10 N/A 2001 ACFI202C
ACFI316C Behavioural, Organisational and Social Aspects of Accounting 10 1 ACFI204C
Not to be taken in conjunction with BUS330
ACFI317C Taxation A 10 1 20 credit points of ACFI subjects at 200 level
BUS305 Strategic Integration and Implementation 10 N/A 2001
BUS314 Government and Business 10 N/A 2001
BUS320 History and Development of Accounting Thought 10 N/A 2001
BUS325 Accounting and Auditing Information Systems 10 N/A 2001
BUS330 Strategic Value Creation 10 N/A 2001
Not to be taken in conjunction with ACFI316C
BUS335 Current Issues in Accounting and Finance 10 N/A 2001
BUS342 Global Challenge and Change 10 N/A 2001
Not to be taken in conjunction with IRHR347C
BUS347 Knowledge Management 10 N/A 2001
BUS362 E-Marketing 10 N/A 2001 MKTG100C or BUS160 plus BUS260
BUS367 Marketing Development and Directions 10 N/A 2001 MKTG100C or BUS160 plus BUS260, BUS265, BUS270 and BUS362
FOOD341 Food & Beverage Management 2 10 2 FOOD241
HMGT300 Practicum in Hotel, Sport & Club Management 10 2 HMGT201, HMGT202
HMGT318 Event & Facility Management 10 2
HMGT320 Hotel, Sport and Club Marketing 10 1
IRHR332C Contemporary Management Issues 10 N/A 2001 MKTG276C
IRHR347C Organisational Change 10 1 IRHR228C
Not to be taken in conjunction with BUS342
IRHR351C Human Resource Development 10 1 IRHR227C
Not to be taken in conjunction with BUS205
IRHR353C Organisational Psychology 10 2 IRHR227C
IRHR354C International Human Resource Management 10 2 IRHR227C
LIRS313C Leisure, Tourism and Environmental Issues 10 N/A 2001
LIRS315C Tourism Policy and Planning 10 N/A 2001 LIRS211C or HMGT211
MENT300 Electronic Commerce 10 N/A 2001

MKTG100C Strategic Marketing Management 10 2 MKTG201C
Not to be taken in conjunction with BUS367
MKTG103C Business to Business Marketing 10 N/A 2001 20 credit points in Marketing
MKTG104C Services Marketing 10 1 MKTG200C
MKTG106C International Marketing 10 2 MKTG200C
MKTG341C Entrepreneurship 10 N/A 2001
Not to be taken in conjunction with MENT210
MKTG343C Enterprise Development 10 1 MKTG226C or MENT200
Not to be taken in conjunction with BUS342

*only available for students enrolled in B Management 2000 intake, or B Business or B Commerce

Schedule

Qualification for the Degree
1. To qualify for admission to the degree, a candidate shall complete a program approved by the Faculty Board totalling not less than 240 credit points from the List of Approved Subjects, and including:
   (a) the Core Subjects prescribed for the course by the Faculty Board;
   (b) a Major Sequence of subjects approved for the course by the Faculty Board;
   (c) not more than 100 credit points from 100 level subjects; and
   (d) at least 40 credit points from 300 level subjects.
2. Where two approved Major Sequences are completed within the single degree, an overlap of not more than 20 credit points is permitted between Major Sequence subjects at 300 level.

Credit
3. (1) A graduate of the University, or of another tertiary institution may be granted credit in subjects totalling not more than 120 credit points.
   (2) An undergraduate may be granted credit in subjects totalling not more than 130 credit points, except that credit for additional subjects may be allowed in the case of an undergraduate transferring from another course in the University.

Enrolment
4. (1) A candidate in good academic standing may, upon successful completion of 80 credit points in the degree, enrol in up to 50 credit points in a subsequent semester without the permission of the Dean. Continued enrolment in 50 credit points per semester may not be permitted if a candidate fails to maintain good academic standing.
   (2) For the purposes of Rule 4(1), a student shall be deemed to be in good academic standing if, at the conclusion of the semester of last enrolment in the course, the student was eligible to re-enrol without restrictions.

Undergraduate Handbook 2003
Bachelor of Business (Honours)

Award Abbreviation: BBus(Hons)

The Bachelor of Business (Honours) is offered by the Faculty of Economics and Commerce. Honours in Management, Marketing and Enterprise, and Industrial Relations and Human Resource Management are available.

Industrial Relations & Human Resource Management

Full-time students enrol in IRHR410, IRHR411 and IRHR415 in their first semester and IRHR412, IRHR413 and IRHR416 in their second semester, regardless of which semester they commence their enrolment.

Part-time students enrolling in first or second semester should enrol in IRHR410 and IRHR411 in their first semester and in IRHR412 and IRHR413 in their second semester. In their third and fourth semesters, they should enrol in IRHR414 and IRHR416 respectively.

Potential Honours students should consult with the Head of Discipline, Industrial Relations and Human Resource Management towards the end of the semester prior to that in which they intend to enrol. Students may choose their program in accordance with the following guidelines and with the approval of the Head of School of Management. All students must complete:

(a) Foundations of Industrial Relations Theory
(b) Theoretical Foundations of Human Resource Management
(c) Research Methods
(d) One subject (with appropriate assessment) chosen from any 300, 400 or 500 level subject in Industrial Relations or Human Resource Management not previously completed.
(e) A research thesis of approximately 20,000 words

Foundations of Industrial Relations Theory

This topic aims to provide an appreciation of the role of theory generally as well as a more specific exploration of industrial relations theory. In particular, the topic analyses the competing theoretical paradigms relevant to the study of industrial relations, the development of industrial relations as an academic subject and the work of some of the major writers in the industrial relations tradition.

Theoretical Foundation of Human Resource Management

This topic explores the historical origins of Human Resource Management, the various intellectual traditions contributing to the development of the field, and the work of major writers. It also analyses recent debates over the meaning and status of Human Resource Management.

Research Methods

The topic extends research skills by considering a range of social science research methods relevant in business. The emphasis is on project work and the development of effective, cost efficient and ethical research proposals.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<td>Industrial Relations &amp; Human Resource Management IVA</td>
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<td>IRHR411</td>
<td>Industrial Relations &amp; Human Resource Management IVB</td>
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<tr>
<td>IRHR412</td>
<td>Industrial Relations &amp; Human Resource Management IVC</td>
<td>10</td>
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<td>Approval Head of School</td>
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<tr>
<td>IRHR413</td>
<td>Industrial Relations &amp; Human Resource Management VDA</td>
<td>10</td>
<td>1, 2</td>
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Plus

| Thesis in IR & HRM - Part I | 20 | 1, 2 | Approval Head of School |
| Thesis in IR & HRM - Part II | 20 | 1, 2 | Approval Head of School |

Marketing & Enterprise

Full-time students enrol in MKTG410, MKTG411 and MKTG415 in their first semester and MKTG412, MKTG413 and MKTG416 in their second semester, regardless of which semester they commence their enrolment.

Part-time students enrolling in first or second semester should enrol in MKTG410 and MKTG411 in their first semester and in MKTG412 and MKTG413 in their second semester. In their third and fourth semesters, they should enrol in MKTG414 and MKTG416 respectively.

Potential Honours students should consult with the Head of Discipline of Marketing towards the end of the semester preceding that in which they intend to enrol. Students may choose their program in accordance with guidelines available from and with the approval of the Head of the School of Management.

Approved Subjects

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<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<td>MKTG412</td>
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<td>MKTG413</td>
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<td>10</td>
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<td>Approval Head of School</td>
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</table>

Plus

| Thesis in Marketing & Enterprise - Part I | 20 | 1, 2 | Approval Head of School |
| Thesis in Marketing & Enterprise - Part II | 20 | 1, 2 | Approval Head of School |

Management

Full-time students enrol in MNGT410, MNGT411 and MNGT415 in their first semester and MNGT412, MNGT413 and MNGT416 in their second semester independently of which semester they commence their enrolment.

Part-time students enrolling in first or second semester should enrol in MNGT410 and MNGT411 in their first semester and in MNGT412 and MNGT413 in their second semester. In their third and fourth semesters, they should enrol in MNGT414 and MNGT416 respectively.

Potential Honours students should consult with the Head of School (Management) towards the end of the semester preceding that in which they intend to enrol. Students may choose their program in accordance with guidelines available from and with the approval of the Head of the School of Management.

Approved Subjects

<table>
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<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNGT410</td>
<td>Management IVA</td>
<td>10</td>
<td>1, 2</td>
<td>Approval Head of School</td>
</tr>
<tr>
<td>MNGT411</td>
<td>Management IVB</td>
<td>10</td>
<td>1, 2</td>
<td>Approval Head of School</td>
</tr>
<tr>
<td>MNGT412</td>
<td>Management IVC</td>
<td>10</td>
<td>1, 2</td>
<td>Approval Head of School</td>
</tr>
<tr>
<td>MNGT413</td>
<td>Management VDA</td>
<td>10</td>
<td>1, 2</td>
<td>Approval Head of School</td>
</tr>
</tbody>
</table>

Plus

| Thesis in Management - Part I | 20 | 1, 2 | Approval Head of School |
| Thesis in Management - Part II | 20 | 1, 2 | Approval Head of School |

Schedule

Admission to Candidature
1. In order to be admitted to candidature an applicant shall have completed such work prescribed in accordance with the policy determined by the Faculty Board.

Qualification for Admission to the Degree
2. To qualify for admission to the degree a candidate shall have completed such work prescribed in accordance with the policy determined by the Faculty Board.

Classes of Honours
3. There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division I and Division II.
Bachelor of Business/Bachelor of Commerce
Award Abbreviations: BBus, BCom

The Bachelor of Business/Bachelor of Commerce combined degree program is offered by the Faculty of Economics and Commerce. It is a four year full-time (or equivalent part-time) course which provides students with the opportunity to increase the depth and breadth of their study in relevant disciplines within the Faculty of Economics and Commerce.

Refer to the single course entries for the Bachelor of Business and Bachelor of Commerce for further details about career opportunities and degree requirements.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oufsr/tafecredit/index.htm

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree for students who have completed one of the following TAFE NSW courses:
- Advanced Diploma in Business (Management)
- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Program Structure
To complete the course, students must pass subjects totalling 320 credit points (generally made up of 32 subjects worth 10 credit points each). The program has three distinct components:
- Core Subjects;
- two Major Sequences (one from each degree); and
- Elective subjects, which may include a third Major
  - No more than 110 credit points at 100 level
  - At least 80 credit points at 300 level

Core Subjects for the Bachelor of Business/Bachelor of Commerce

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF101</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>ECON10</td>
<td>Microeconomics I</td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics 1</td>
</tr>
<tr>
<td>INF101</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>IRHR111</td>
<td>Introduction to Management &amp; Organisational Behaviour</td>
</tr>
<tr>
<td>LAW101</td>
<td>Foundations of Law</td>
</tr>
<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
</tr>
<tr>
<td>STAT105</td>
<td>Statistics for Business</td>
</tr>
<tr>
<td>ACF1210</td>
<td>Financial Management for Business</td>
</tr>
<tr>
<td>IRHR220</td>
<td>Business Communications</td>
</tr>
</tbody>
</table>

For further information regarding Major Sequence subjects and Electives, refer to the entries for the Bachelor of Business and Bachelor of Commerce.
Bachelor of Business/Bachelor of Laws

Award Abbreviations: BBus, LLB

The Bachelor of Business/Bachelor of Laws combined degree program is offered by the Faculty of Economics and Commerce and the Faculty of Law. The combined degree involves completion of 150 credit points of subjects from the Bachelor of Business (including a number of Core subjects and a Major Sequence of study), and 250 credit points of LLB subjects from the Bachelor of Laws.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/oust/lautech/index.htm

Program Structure

The Bachelor of Business/Bachelor of Laws is undertaken over five years of full-time study. Students in the combined degree program undertake the following general program. To satisfy the requirements of both degrees, students must comply with the specific subject requirements detailed in the Program Structure section below, and in the Bachelor of Business and Bachelor of Laws entries.

<table>
<thead>
<tr>
<th>Bachelor of Business</th>
<th>Bachelor of Laws Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td>40 credit points at 100 level</td>
</tr>
<tr>
<td></td>
<td>40 credit points at 100 level:</td>
</tr>
<tr>
<td></td>
<td>LLB103A Legal System &amp; Method - Part A 10 credit points</td>
</tr>
<tr>
<td></td>
<td>LLB103B Legal System &amp; Method - Part B 10 credit points</td>
</tr>
<tr>
<td></td>
<td>LLB104A Criminal Law &amp; Procedure - Part A 10 credit points</td>
</tr>
<tr>
<td></td>
<td>LLB104B Criminal Law &amp; Procedure - Part B 10 credit points</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td>60 credit points - 20 or 30 credit points at 100 level and 30 or 40 credit points at 200 level</td>
</tr>
<tr>
<td></td>
<td>20 credit points at 200 level:</td>
</tr>
<tr>
<td></td>
<td>LLB203A Torts - Part A 10 credit points</td>
</tr>
<tr>
<td></td>
<td>LLB203B Torts - Part B 10 credit points</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td>50 credit points - at least 40 credit points at 300 level</td>
</tr>
<tr>
<td></td>
<td>30 credit points at 300 level:</td>
</tr>
<tr>
<td></td>
<td>LLB303A Contracts - Part A 10 credit points</td>
</tr>
<tr>
<td></td>
<td>LLB303B Contracts - Part B 10 credit points</td>
</tr>
<tr>
<td></td>
<td>LLB302 Property 10 credit points</td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td>80 credit points</td>
</tr>
<tr>
<td><strong>Year 5</strong></td>
<td>80 credit points</td>
</tr>
</tbody>
</table>

To meet the requirements of the Bachelor of Business you must complete the Core subjects (listed in the table below), and a Major Sequence of study in Industrial Relations & Human Resource Management, International Business, Marketing, or Management. A major sequence of study consists of at least 30 credit points at 200 level and 40 credit points at 300 level. It will also require completion of an additional subject(s) at 100 level.

Credit towards the Bachelor of Business is granted for the 90 credit points of Bachelor of Laws subjects taken in the first three years. Thus, an successful completion of the combined degree program outlined above, you will have met the requirements of the Bachelor of Business degree.

To meet the requirements of the Bachelor of Laws degree you must complete 250 credit points in the pattern indicated in the table above. The final two years of the combined degree program comprise study in only LLB subjects.

For further information on degree requirements and subjects, refer to the course descriptions for the Bachelor of Business and the Bachelor of Laws.

Compulsory business subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC1101</td>
<td>Financial Accounting</td>
<td>10</td>
</tr>
<tr>
<td>AC2110</td>
<td>Financial Management for Business</td>
<td>10</td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics I</td>
<td>10</td>
</tr>
<tr>
<td>ECON111</td>
<td>Microeconomics II</td>
<td>10</td>
</tr>
<tr>
<td>LLB111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
</tr>
<tr>
<td>LLB121</td>
<td>Introduction to Law &amp; Procedure</td>
<td>10</td>
</tr>
<tr>
<td>LLB122</td>
<td>Legal System</td>
<td>10</td>
</tr>
<tr>
<td>LLB123</td>
<td>Torts - Part A</td>
<td>10</td>
</tr>
<tr>
<td>LLB124</td>
<td>Torts - Part B</td>
<td>10</td>
</tr>
<tr>
<td>LLB125</td>
<td>Contracts - Part A</td>
<td>10</td>
</tr>
<tr>
<td>LLB126</td>
<td>Contracts - Part B</td>
<td>10</td>
</tr>
<tr>
<td>LLB127</td>
<td>Property</td>
<td>10</td>
</tr>
</tbody>
</table>

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/oust/lautech/index.htm

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree for students who have completed one of the following TAFE NSW courses:

- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Course Structure

To complete the degree, students must pass subjects totalling 240 credit points (generally made up of 24 subjects worth 10 credit points each). The 240 credit points required to complete the degree must include:

- all 100 level Core Subjects;
- a Major Sequence in either Financial Accounting, Management Accounting or Finance;
- no more than 100 credit points at 100 level;
- at least 60 credit points at 300 level.

Bachelor of Commerce (Callaghan Campus)

Award Abbreviation: BCom

The Bachelor of Commerce is offered by the Faculty of Economics and Commerce. It is a three year full-time (or equivalent part-time) degree which leads to careers in areas such as professional accounting, finance, planning, business management, administration, banking and finance, taxation and auditing. There are four major sequences of study offered in the degree: Finance, Financial Accounting, Management Accounting and Information Systems. Students must complete at least one major sequence.

- This major sequence can only be taken in conjunction with a Finance, Financial Accounting or Management Accounting major sequence. Students intending to become professional accountants must include the Accounting Accreditation subjects within their Bachelor of Commerce program. The Accounting Accreditation subjects are listed below. Students wishing to meet the educational requirements for Associate Membership of the Australian Institute of Banking and Finance need to complete the subjects listed under "Professional Membership".

The structure of the course is sufficiently flexible to permit a student to achieve a double major sequence in Financial Accounting, Management Accounting or Finance; a double major sequence with a major sequence from another of the University's degree(s); a major sequence in conjunction with a minor in a discipline other than accounting or finance; or a major sequence in a range of different subjects across the University.

Honours: Available as an additional year to students who have achieved a credit grade point average.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/oust/lautech/index.htm

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree for students who have completed one of the following TAFE NSW courses:

- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Course Structure

To complete the degree, students must pass subjects totalling 240 credit points (generally made up of 24 subjects worth 10 credit points each). The 240 credit points required to complete the degree must include:

- all 100 level Core Subjects;
- a Major Sequence in either Financial Accounting, Management Accounting or Finance;
- no more than 100 credit points at 100 level;
- at least 60 credit points at 300 level.
Accountancy Subjects (for professional recognition as an Accountant)

Students intending to seek professional recognition as an accountant must ensure that they include the Accountancy Accreditation subjects in their degree programs. Some of these subjects may need to be taken as electives.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>INF0101</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>RH0111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>STAT05</td>
<td>Statistics for Business</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON113</td>
<td>Basic Econometrics and Quantitative Analysis</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
</tbody>
</table>

Compulsory Major Sequence Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td>ACF101</td>
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</tbody>
</table>

* Plus elective subjects

Core and Major Sequence Subjects - Financial Accounting Major Sequence

<table>
<thead>
<tr>
<th>100 level - Financial Accounting Major Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Code</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>ACF101</td>
</tr>
<tr>
<td>ECON110</td>
</tr>
<tr>
<td>ECON111</td>
</tr>
<tr>
<td>INF0101</td>
</tr>
<tr>
<td>RH0111</td>
</tr>
<tr>
<td>STAT05</td>
</tr>
<tr>
<td>ECON113</td>
</tr>
</tbody>
</table>

Compulsory Major Sequence Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td>ACF101</td>
</tr>
</tbody>
</table>

* Plus elective subjects

Core and Major Sequence Subjects - Management Accounting Major Sequence

<table>
<thead>
<tr>
<th>100 level - Management Accounting Major Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Code</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>ACF101</td>
</tr>
<tr>
<td>ECON110</td>
</tr>
<tr>
<td>ECON111</td>
</tr>
<tr>
<td>INF0101</td>
</tr>
<tr>
<td>RH0111</td>
</tr>
<tr>
<td>STAT05</td>
</tr>
<tr>
<td>ECON113</td>
</tr>
</tbody>
</table>

Compulsory Major Sequence Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td>ACF101</td>
</tr>
</tbody>
</table>

* Plus elective subjects
## Core and Major Sequence Subjects

### 200 level - Management Accounting Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF10203</td>
<td>Costing Principles and Method</td>
<td>10</td>
<td>1</td>
<td>ACF1002</td>
</tr>
<tr>
<td>ACF1204</td>
<td>Financial Control and Performance Evaluation</td>
<td>10</td>
<td>2</td>
<td>ACF1203</td>
</tr>
</tbody>
</table>

**Plus choose one of:**

- ACF201 Corporate Accounting and Reporting 10 1 ACF101
- ACF210 Corporate Financial Regulation and Control 10 2 ACF1201
- ACF212 Business Finance 10 1 ACF110, ECON110, ECON111, and one of STAT105 or ECON113 or 10 credit points at 100 level Mathematics subject

- ACF206 Corporate Financial Decision Making 10 2 ACF1207
- ACF220 Introduction to Financial Planning 10 2 ACF101

*Plus elective subjects*

### 300 level - Management Accounting Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF1003</td>
<td>Accounting and Decision Support Systems</td>
<td>10</td>
<td>1</td>
<td>ACF1204</td>
</tr>
<tr>
<td>ACF1106</td>
<td>Behavioural, Organisational and Social Aspects of Accounting</td>
<td>10</td>
<td>2</td>
<td>ACF1204</td>
</tr>
</tbody>
</table>

**Plus choose one of:**

- ACF205 Auditing Theory and Method 10 1 ACF1201
- ACF207 Taxation B 10 2 ACF1201
- ACF211 Accounting and Small Enterprise 10 1 30 credit points at 200 level from Department of Accounting and Finance
- ACF212 International Accounting and Finance 10 2 ACF1201
- ACF217 Taxation A 10 1 20 credit points at 200 level from Department of Accounting and Finance
- ACF218 Social and Environmental Accounting 10 2 20 credit points at 200 level
- ECRM201 Business Research Methods 10 1 STAT105 or ECON110 and 30 credit points at 200 level
- PHIL393 Human Values and Commercial Practice 10 1 30 credit points at 200 level

*Plus elective subject*

### Core and Major Sequence Subjects - Finance Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF1010</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON1101</td>
<td>Microeconomics</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON1110</td>
<td>Macroeconomics</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>INFO2001</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>MATH1111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>STAT105</td>
<td>Statistics for Business</td>
<td>10</td>
<td>1, 2</td>
<td>Not available to B Economics students</td>
</tr>
<tr>
<td>ECON1102</td>
<td>Basic Econometrics and Quantitative Analysis</td>
<td>10</td>
<td>1, 2</td>
<td>Not available to B Business or B Information Science students</td>
</tr>
</tbody>
</table>

**Compulsory Major Sequence Subjects**

- ACF1002 Financial Management 10 2 ACF101

*Plus elective subjects*
Approved Subjects for Senior Associate Membership of the Faculty of Economics and Commerce

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td>ACFI101</td>
</tr>
<tr>
<td>ACH102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP110</td>
<td>Introduction to Programming</td>
<td>5</td>
<td>1</td>
<td>ACFI101</td>
</tr>
</tbody>
</table>

Note: Students are not permitted to enrol in COMP110. COMP110 cannot be counted with SENG111 or ECON111.

Approved Subjects Offered by the Faculty of Economics and Commerce

List includes subjects offered by other faculties which are commonly undertaken by students in the Bachelor of Commerce.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ACH102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP110</td>
<td>Introduction to Programming</td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON113</td>
<td>Basic Econometrics and Quantitative Analysis</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
</tbody>
</table>

(Not available to B Business or B Information Science students)
Schedule

Qualification for the Degree

1. To qualify for admission to the degree, a candidate shall complete a program approved by the Faculty Board totalling not less than 240 credit points from the List of Approved Subjects, and including:
   a. the Core Subjects prescribed for the course by the Faculty Board;
   b. a Major Sequence of subjects approved for the course by the Faculty Board;
   c. not more than 100 credit points from 100 level subjects; and
   d. at least 60 credit points from 300 level subjects.

2. Where two approved Major Sequences are completed within the single degree, an overlap of not more than 20 credit points is permitted between major Sequence subjects at 300 level.

Credit

3. (1) A graduate of the University, or of another tertiary institution, may be granted credit in subjects totalling not more than 120 credit points.

   (2) An undergraduate may be granted credit in subjects totalling not more than 120 credit points, except that credit for additional subjects may be allowed in the case of an undergraduate transferring from another course in the University.

Enrollment

4. (1) A candidate in good academic standing may, upon successful completion of 80 credit points in the degree, enrol in up to 50 credit points in a subsequent semester without the permission of the Dean. Continuation in 50 credit points per semester may not be permitted if a candidate fails to maintain good academic standing.

   (2) For the purposes of Rule 4(1), a student shall be deemed to be in good academic standing if, at the conclusion of the semester of last enrolment in the course, the student was eligible to re-enrol without restrictions.

Bachelor of Commerce (Central Coast Campus)

Award Abbreviation: BCom

The Bachelor of Commerce (Central Coast Campus) is offered by the Faculty of Economics and Commerce. The Faculty of the Central Coast is responsible for the course as it is conducted on the Central Coast Campus. This is a three year full-time (or equivalent part-time) degree which leads to careers in areas such as professional accounting, business management, administration, banking and finance, taxation and auditing. Two Major Sequences of study are offered in the degree. Financial Accounting and Management Accounting.

Students intending to become professional accountants must include the Accounting Accreditation subjects within their Bachelor of Commerce program. The Accounting Accreditation subjects are listed below. For students who choose not to pursue the Accounting program, the structure of the course is sufficiently flexible to permit another approved major sequence; and/or subjects offered by the faculty; and/or subjects from outside the faculty.

Honours: Available at Callaghan campus as an additional year to students who have achieved a Credit Grade Point Average.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation agreements please see the University's website, at http://www.newcastle.edu.au/services/student/tafecredit/index.htm

Enhanced TAFE University articulation (credit) arrangements are in place for this degree. Students who have completed TAFE NSW courses may receive up to one year's credit towards the Bachelor of Commerce.

Courses which receive credit include:

- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Course Structure

To complete the degree, students must pass subjects totalling 240 credit points (comprising 24 subjects of 10 credit points each). The 240 credit points required to complete the degree must include:

- All 100 level Core Subjects
- A Major Sequence in either Financial Accounting or Management Accounting
- No more than 100 credit points at 100 level
- At least 60 credit points at 300 level

Students may also enrol in subjects at the Callaghan Campus.

Accountancy Subjects (for professional recognition as an accountant)

Students intending to seek professional recognition as an accountant must ensure that they include the Accounting Accreditation subjects in their degree programs. Some of these subjects may need to be taken as electives.

Subject Code | Subject Name
--- | ---
ACFR020 | Financial Accounting
ACFR021 | Financial Management
ACFR022 | Corporate Accounting and Reporting
ACFR023 | Corporate Financial Regulation and Control
ACFR024 | Costing Principles and Method
ACFR025 | Planning, Control and Performance Evaluation
ACFR026 | Business Finance

Post one of:

ACFR030 | Financial Accounting Theory Construction
ACFR031 | Reconstruction of Accounting
ACFR032 | Accounting and Decision Support Systems
ACFR033 | Behavioral, Organisational, and Social Aspects of Accounting
ACFR034 | Auditing Theory and Methods
Professional Membership

With the inclusion of the subjects listed above, graduates may apply for membership of the Australian Society of Certified Practicing Accountants, the Chartered Institute of Company Secretaries in Australia Limited and for entry to the Professional Year of the Institute of Chartered Accountants in Australia.

### Core and Major Sequence Subjects - Financial Accounting Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI101C</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ECON110C</td>
<td>Microeconomics 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ECON111C</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>INF301C</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>IRHR111C</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>STAT105C</td>
<td>Statistics for Business</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Plus elective subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI102C</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td>ACFI101C</td>
</tr>
</tbody>
</table>

**Core and Major Sequence Subjects - Management Accounting Major Sequence**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI101C</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ACFI203C</td>
<td>Corporate Financial Regulation and Control</td>
<td>10</td>
<td>2</td>
<td>ACFI101C</td>
</tr>
<tr>
<td>ACFI204C</td>
<td>Costing Principles and Method</td>
<td>10</td>
<td>1</td>
<td>ACFI102C</td>
</tr>
<tr>
<td>ACFI205C</td>
<td>Planning, Control and Performance Evaluation</td>
<td>10</td>
<td>2</td>
<td>ACFI203C</td>
</tr>
<tr>
<td>ACFI301C</td>
<td>Business Finance</td>
<td>10</td>
<td>1</td>
<td>ACFI102C, ECON110C, ECON111C, and STAT105C or 10 credit points at 100 level Mathematics subject</td>
</tr>
<tr>
<td>ACFI302C</td>
<td>Corporate Financial Decision Making</td>
<td>10</td>
<td>2</td>
<td>ACFI205C</td>
</tr>
</tbody>
</table>

**Plus elective subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI303C</td>
<td>Financial Accounting Theory Construction</td>
<td>10</td>
<td>1</td>
<td>ACFI202C or 2 ACFI203C</td>
</tr>
<tr>
<td>ACFI304C</td>
<td>Reconciliation of Accounts</td>
<td>10</td>
<td>2</td>
<td>ACFI202C</td>
</tr>
<tr>
<td>ACFI305C</td>
<td>Auditing Theory and Method</td>
<td>10</td>
<td>1</td>
<td>ACFI201C</td>
</tr>
</tbody>
</table>

**Core and Major Sequence Subjects - Management Accounting Major Sequence**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI301C</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ACFI302C</td>
<td>Reconciliation of Accounts</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACFI303C</td>
<td>Auditing Theory and Method</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Plus elective subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI304C</td>
<td>Costing Principles and Method</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ACFI305C</td>
<td>Planning, Control and Performance Evaluation</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACFI306C</td>
<td>Auditing Theory and Method</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ACFI307C</td>
<td>Financial Accounting Theory Construction</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ACFI308C</td>
<td>Reconciliation of Accounts</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACFI309C</td>
<td>Auditing Theory and Method</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Plus elective subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI310C</td>
<td>Financial Accounting Theory Construction</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ACFI311C</td>
<td>Reconciliation of Accounts</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACFI312C</td>
<td>Auditing Theory and Method</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ACFI313C</td>
<td>Financial Accounting Theory Construction</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ACFI314C</td>
<td>Reconciliation of Accounts</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACFI315C</td>
<td>Auditing Theory and Method</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
**Elective Subjects**

As well as the Core Subjects and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or subjects offered by the Faculty of the Central Coast, or subjects from outside the Faculty. See list of Subjects offered on the Central Coast Campus.

**Subjects Offered on the Central Coast Campus**

The following list includes subjects offered on the Central Coast Campus and commonly undertaken by students in the Bachelor of Commerce.

Note: ACFI codes were previously COMM i.e. ACFI101C was COMM101. IRHR codes were previously EMPS i.e. IRHR111C was EMPS111.

### Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
**100 Level**
ACFI101C* | Financial Accounting | 10 | 1 | 
ACFI101C* | Financial Management | 10 | 2 | ACFI101C
BUS110 | People and Profiles in Business | 10 | 1 | 
BUS113 | Australian Government and Politics | 10 | N/A 2001 | Not to be taken in conjunction with IRHR111C
BUS125 | Foundations of Accounting Practice | 10 | 2 | 
BUS160 | The New Marketeer | 10 | 2 | Not to be taken in conjunction with MKTG100C
BUS180 | Communication and E-Talk | 10 | 1, 2 |
BUS185 | Data, Decisions and Directions | 10 | 1 |
BUS189 | Electronic Business | 10 | 1 |
BUS192C | Economics for Business | 10 | 2 | Not taken with ECON 110C
BUS196 | The Contemporary Commercial Environment | 10 | 1, 2 |
ECON110C | Microeconomics 1 | 10 | 1 |
ECON111C | Macroeconomics 1 | 10 | 2 |
INFO101C | Introduction to Information Systems | 10 | 1 |
IRHR111C* | Introduction to Management and Organisational Behaviour | 10 | 1 |
IRHR111C* | Not to be taken in conjunction with BUS110 |
LAW100C | Foundations of Law | 10 | 2 |
MATH117C | Mathematics for the Life Sciences 1 | 10 | 1 | 2 Unit HSC, Mathematics (objective 65/100) or MATH110C or MATH111C
MATH117C | Mathematics for the Life Sciences 2 | 10 | 2 |
MKTG100C* | Law for Managers and Entrepreneurs | 10 | 2 |
MKTG100C* | Marketing Principles | 10 | 2 |
MKTG100C* | Not to be taken in conjunction with BUS110 |
STAT105C | Statistics for Business | 10 | 1 |
TAFE101 | Systems Analysis and Design | 10 | 2 | Subject to availability of IT resources
TAFE102 | End User Support | 10 | 2 | Subject to availability of IT resources
TAFE103 | Applications Programming | 10 | 2 | Subject to availability of IT resources
TAFE104 | Website Construction | 10 | 1 | Subject to availability of IT resources

### Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
**200 Level**
ACFI201C | Corporate Accounting and Reporting | 10 | 1 | ACFI110C
ACFI202C | Corporate Financial Regulation and Control | 10 | 2 | ACFI201C

Note: ACFI codes were previously COMM i.e. ACFI101C was COMM101. IRHR codes were previously EMPS i.e. IRHR111C was EMPS111.
Qualification for the Degree
1. To qualify for admission to the degree, a candidate shall complete a program approved by the Faculty Board totalling not less than 240 credit points from the List of Approved Subjects, and including:
   (a) the Core Subjects prescribed for the course by the Faculty Board;
   (b) a Major Sequence of subjects approved for the course by the Faculty Board;
   (c) not more than 100 credit points from 100 level subjects; and
   (d) at least 60 credit points from 300 level subjects.
2. Where two approved Major Sequences are completed within the single degree, an overlap of not more than 20 credit points is permitted between major Sequence subjects at 300 level.

Credit
3. (1) A graduate of the University, or of another tertiary institution, may be granted credit in subjects totalling not more than 120 credit points.
   (2) An undergraduate may be granted credit in subjects totalling not more than 120 credit points, except that credit for additional subjects may be allowed in the case of an undergraduate transferring from another course in the University.

Enrolment
4. (1) A candidate in good academic standing may, upon successful completion of 80 credit points in the degree, enrol in up to 50 credit points in a subsequent semester without the permission of the Dean. Continued enrolment in 50 credit points per semester may not be permitted if a candidate fails to maintain good academic standing.
   (2) For the purposes of Rule 4(1), a student shall be deemed to be in good academic standing if, at the conclusion of the semester of last enrolment in the course, the student was eligible to re-enrol without restrictions.

Bachelor of Commerce (Honours)

The Bachelor of Commerce (Honours) is offered by the Faculty of Economics and Commerce and is available in Accounting, Finance, Taxation or Auditing.

Accounting
The subjects taken in the Honours degree in Commerce are ACFI403, ACFI404, ACFI405 and ACFI406. Part-time students should enrol in ACFI403 and ACFI404 in their first year and ACFI405 and ACFI406 in their second year.
Potential Honours students should consult with the Head of Department towards the end of the semester prior to that in which they intend to enrol. Students may choose their program in accordance with the following guidelines and with the approval of the Head of Department. All students must complete the following:
   (a) Supervised independent research essay of approximately 20,000 words on an approved topic in accounting, finance, taxation or auditing.
   (b) One subject in Accounting Research Methods, which addresses ways in which accounting researchers identify and investigate accounting problems, covering a wide range of accounting-related topics.
   (c) One 300 level subject offered by the Department of Accounting and Finance (ACFI) which candidates have not studied previously.
   (d) Departmental Seminar Presentation of research proposal.
Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
<th>Concurrent Assumed Knowledge (CK)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC7403</td>
<td>Accounting IVA</td>
<td>20</td>
<td>1 or 2</td>
<td>Approval Head of Department</td>
<td></td>
</tr>
<tr>
<td>AC7404</td>
<td>Accounting IVB</td>
<td>20</td>
<td>1 or 2</td>
<td>Approval Head of Department</td>
<td></td>
</tr>
<tr>
<td>AC7405</td>
<td>Accounting IVC</td>
<td>20</td>
<td>1 or 2</td>
<td>Approval Head of Department</td>
<td></td>
</tr>
<tr>
<td>AC7406</td>
<td>Accounting VD</td>
<td>20</td>
<td>1 or 2</td>
<td>Approval Head of Department</td>
<td></td>
</tr>
</tbody>
</table>

**Schedule**

**Admission to Candidature**
1. In order to be admitted to candidature an applicant shall have completed such work prescribed in accordance with the policy developed by the Faculty Board.

**Qualification for Admission to the Degree**
2. To qualify for admission to the degree a candidate shall pass subjects approved by the Faculty Board for this purpose totaling 80 credit points at the 400 level.

**Classes of Honours**
3. There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division I and Division II.

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**Bachelor of Commerce/Bachelor of Economics**

**Award Abbreviations:** BCom, BEc

The Bachelor of Commerce/Bachelor of Economics is offered by the Faculty of Economics and Commerce. It is a four-year full-time (or equivalent part-time) course which provides students with the opportunity to increase the depth and breadth of their study in relevant disciplines within the Faculty of Economics and Commerce. Refer to the single course entries for the Bachelor of Commerce and Bachelor of Economics for further details about course opportunities and degree requirements.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/courses/credit/index.htm

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree for students who have completed one of the following TAFE NSW courses:
- Advanced Diploma in Business (Management)
- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

**Course Structure**

To complete the course, students must pass subjects totalling 320 credit points (generally made up of 37 subjects worth 10 credit points each). The 320 credit points required to complete the course must include:
- Core Subjects
- two Major Sequences (one from each degree); and
- Elective subjects, which may include a third Major
- no more than 110 credit points at 100 level;
- at least 80 credit points at 300 level

**Core Subjects for the Bachelor of Commerce/Bachelor of Economics**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC7101</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>EC0110</td>
<td>Microeconomics 1</td>
</tr>
<tr>
<td>EC0111</td>
<td>Macroeconomics 1</td>
</tr>
<tr>
<td>EC0113</td>
<td>Basic Econometrics &amp; Quantitative Analysis 1</td>
</tr>
<tr>
<td>INF0101</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>IRHR111</td>
<td>Introduction to Management &amp; Organisational Behaviour</td>
</tr>
</tbody>
</table>

For further information regarding Major Sequence subjects and electives, refer to the entries for the Bachelor of Commerce and the Bachelor of Economics.

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**Bachelor of Commerce/Bachelor of Laws**

**Award Abbreviations:** BCom, LLB

The Bachelor of Commerce/Bachelor of Laws combined degree program is offered by the Faculty of Economics and Commerce and the Faculty of Law.

The combined degree program involves completion of 150 credit points of subjects from the Bachelor of Commerce (including a number of core subjects and a major sequence of study), and 250 credit points of LLB subjects from the Bachelor of Laws.

Students in the Bachelor of Commerce/Bachelor of Laws undertake the following general program. To satisfy the requirements of both degrees, students must comply with the specific subject requirements detailed in the section Program Structure, and the course entries for the Bachelor of Commerce and Bachelor of Laws.

<table>
<thead>
<tr>
<th>Bachelor of Commerce</th>
<th>Bachelor of Laws Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
</tr>
<tr>
<td>40 credit points at 100 level</td>
<td>LLB103A (Legal System &amp; Method - Part A) 10 credit points</td>
</tr>
<tr>
<td>LLB104A (Criminal Law &amp; Procedure - Part A) 10 credit points</td>
<td></td>
</tr>
<tr>
<td>LLB104B (Criminal Law &amp; Procedure - Part B) 10 credit points</td>
<td></td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
</tr>
<tr>
<td>60 credit points at 100 level</td>
<td>20 credit points at 200 level</td>
</tr>
<tr>
<td>LLB203A (Torts - Part A) 10 credit points</td>
<td></td>
</tr>
<tr>
<td>LLB203B (Torts - Part B) 10 credit points</td>
<td></td>
</tr>
<tr>
<td>Year 3</td>
<td></td>
</tr>
<tr>
<td>50 credit points at 300 level</td>
<td>LLB303A (Contracts - Part A) 10 credit points</td>
</tr>
<tr>
<td>LLB303B (Contracts - Part B) 10 credit points</td>
<td></td>
</tr>
<tr>
<td>LLB303 (Contracts) 10 credit points</td>
<td></td>
</tr>
<tr>
<td>Year 4</td>
<td></td>
</tr>
<tr>
<td>80 credit points</td>
<td></td>
</tr>
<tr>
<td>Year 5</td>
<td></td>
</tr>
<tr>
<td>80 credit points</td>
<td></td>
</tr>
</tbody>
</table>

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/courses/articulation/index.htm.

**Program Structure**

The Bachelor of Commerce/Bachelor of Laws combined degree program is undertaken over five years of full-time study.

To meet the requirements of the Bachelor of Commerce you must complete 60 credit points of core subjects at 100 level (listed in the table below), and a major sequence of study in Finance, Financial Accounting, or Management Accounting. A major sequence of study consists of at least 30 credit points at 200 level and 40 credit points at 300 level. It also requires completion of an additional subject(s) at 100 level.

Credit towards the Bachelor of Commerce is granted for the 90 credit points of Bachelor of Laws subjects taken in the first three years, tailing the total Bachelor of Commerce credit points to 240. Thus, on successful completion of the first three years of the combined degree program outlined above, you will be eligible to graduate with a Bachelor of Commerce degree majoring in Finance, Financial Accounting or Management Accounting.

To meet the requirements of the Bachelor of Laws degree you must complete 250 credit points in the pattern indicated in the table above. The final two years of the combined degree program comprise study in only LLB subjects.

For further information on degree requirements and subjects, refer to the course descriptions for the Bachelor of Commerce and the Bachelor of Laws. Students in combined degree programs are advised to consult with the two Faculty Offices regarding their academic program.
The Bachelor of Computer Science course is offered by the Faculty of Engineering. This course provides students with the skills needed for a career in computing and information technology. The strong grounding in theoretical computer science prepares students for future postgraduate studies and research, however, there is also the capacity for students to select subjects in supporting areas.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ousr/aau/tafecredit/index.htm

Course Structure
The Bachelor of Computer Science is a three year program comprising 240 credit points as set out below. An Honours year is available as an additional year to meritorious students. Throughout the course, theoretical studies are integrated with the latest technology in the final year of study, students undertake directed electives of their choice. Students are introduced to programming languages such as Java, C++, Smalltalk, Eiffel, Lisp, Scheme, Prolog and SQL.

Elective Requirements
A total of 60 credit points of General Electives are to be taken, comprising at least 20 credit points at 100 level and at least 20 credit points at 300 level. A total of 60 credit points of Directed Electives are to be taken consisting of 10 credit points at 100 level, 10 credit points at 200 level and 60 credit points at 300 level.

In exceptional circumstances the Dean, on the recommendation of the relevant Heads of Department, may approve selection of other elective subjects.

General Elective subjects may be chosen from any subjects which may normally be counted towards the award of the degrees of B Arts, B Commerce, B Computer Science, B Engineering, B Economics, B Mathematics or B Science provided that assumed knowledge requirements are met (or written permission is obtained from the Head of the Department offering the subject).

It is not appropriate for B Computer Science students to enrol in the subjects MECH105 and CHEE242 which are deemed to be similar to subjects offered by the Department of Computer Science and Software Engineering. B Computer Science students are not permitted to enrol in the service subject COMP107 as much of its content is subsumed by that of the core subject SENG111.

Students are encouraged to consider choosing subjects from the Directed Elective lists to fill their General Elective requirements.

Directed Electives and recommended General Electives are listed below.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP107</td>
<td>Computer Networks</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>ELEC250</td>
<td>Introduction to Telecommunications</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>INFO202</td>
<td>Systems Analysis and Design</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>INFO204</td>
<td>Distributed Computing Technologies</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH2085</td>
<td>Linear Algebra</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MATH2195</td>
<td>Matrix Methods</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MATH222</td>
<td>Algebraic Methods I</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MATH223</td>
<td>Operations Management</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG209</td>
<td>Introduction to Web Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG210</td>
<td>Mathematical Statistics</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>COMP224</td>
<td>The Unix Operating Systems</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>ELEC250</td>
<td>Introduction to Telecommunications</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>INFO209</td>
<td>Information Systems Implementation</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>INFO221</td>
<td>Intelligence Systems for Business</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH222</td>
<td>Engineering Mathematics II</td>
<td>10</td>
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<tr>
<td>MATH223</td>
<td>Data Systems and Numerical Techniques</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>MAIN223</td>
<td>Algebraic Methods I</td>
<td>5</td>
<td>2</td>
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<tr>
<td>ELEC270</td>
<td>Computer Engineering II</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>COMP225</td>
<td>Database Systems</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>COMP226</td>
<td>Compiler Design</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>COMP233</td>
<td>Machine Intelligence</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG111</td>
<td>Advanced Software Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG130</td>
<td>User Interface Design</td>
<td>10</td>
<td>1</td>
</tr>
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<td>SENG138</td>
<td>Concurrent Programming</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>COMP226</td>
<td>Data Security</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>COMP331</td>
<td>Advanced Object-Oriented Programming</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>COMP332</td>
<td>Computer Graphics</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG212</td>
<td>Object-Oriented Software Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG228</td>
<td>Computer Networks</td>
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<td>2</td>
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<tr>
<td>SENG229</td>
<td>Software for Distributed Environments</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

Notes
1. SENG110 can be substituted for SENG111; however, only one of these two subjects can count towards the Bachelor of Computer Science degree requirements.
The total number of 100 level subjects, including Core subjects and Directed Electives, may not exceed 100 credit points.

Under special circumstances the Head of Department may approve enrolment in COMP or SENG 400 level subjects in lieu of 300 level Directed Elective subjects.

Only one of MATH112 and MATH122 can count towards the B Computer Science degree requirements.

Only one of COMP105 and COMP106 can count towards the B Computer Science degree requirements.

MATH270 cannot count together with MATH213.

Only one of MATH112 and MATH122 can count towards the B Computer Science degree requirements.

### Part-time Attendance

All candidates for the degree must complete the requirements of the program given above. All or part of this program may be completed by part-time attendance. Part-time students will normally take two years for each equivalent full-time year. As far as resources allow, the first two stages of the course are timetabled to permit a single-day work release attendance pattern with some evening lectures. These stages are as follows:

### Mid Year Entry

It is possible to commence the B Computer Science program mid-year, and still complete the course in three years. A suggested program follows:

Subject Code | Subject Name | Credit Points | Semester | Year 1 (40 credit points) | Year 2 (80 credit points) | Year 3 (80 credit points)
--- | --- | --- | --- | --- | --- | ---
COMP105 | Internet Communication | 10 | 1 | | | |
INFO101 | Introduction to Information Systems | 10 | 1 | | | |
MATH151 | Discrete Mathematics | 10 | 1 | | | |
SENG111 | Introduction to Software Engineering 1 | 10 | 1 | | | |
INFO102 | Information Storage and Management | 10 | 2 | | | |
MATH111 | Mathematics I | 10 | 2 | | | |
SENG112 | Introduction to Software Engineering 2 | 10 | 2 | | | |
SENG114 | The Online Society | 10 | 2 | | | |

Set out below is a suggested degree program designed so that Bachelor of Computer Science students can study a major in Information Systems:

#### Computer Science with Information Systems

| Subject Code | Subject Name | Credit Points | Semester | Year 1 (80 credit points) | Year 2 (80 credit points) | Year 3 (80 credit points)
--- | --- | --- | --- | --- | --- | ---
COMP223 | Introduction to Algorithms | 10 | 1 | | | |
INFO201 | Systems Analysis and Design | 10 | 1 | | | |
INFO204 | Distributed Computing Technologies | 10 | 1 | | | |
SENG211 | Software Analysis and Verification | 10 | 1 | | | |
COMP222 | Theory of Computation | 10 | 2 | | | |
Approved Subjects - Department of Computer Science and Software Engineering

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent Assumed Knowledge (CK)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP105</td>
<td>Internet Communication</td>
<td>10</td>
<td>1</td>
<td>Nil</td>
</tr>
<tr>
<td>COMP107</td>
<td>Introduction to Programming and Numerical Methods</td>
<td>5</td>
<td>2</td>
<td>Nil</td>
</tr>
<tr>
<td>COMP222</td>
<td>Theory of Computation</td>
<td>10</td>
<td>1</td>
<td>COMP111, COMP112</td>
</tr>
<tr>
<td>COMP223</td>
<td>Introduction to Algorithms</td>
<td>10</td>
<td>1</td>
<td>COMP111, COMP112</td>
</tr>
<tr>
<td>COMP234</td>
<td>Operating Systems</td>
<td>10</td>
<td>1</td>
<td>SENG112</td>
</tr>
<tr>
<td>COMP325</td>
<td>Database Systems</td>
<td>10</td>
<td>1</td>
<td>SENG112, COMP122</td>
</tr>
<tr>
<td>COMP326</td>
<td>Data Security</td>
<td>10</td>
<td>2</td>
<td>SENG112, COMP111</td>
</tr>
<tr>
<td>COMP329</td>
<td>Compiler Design</td>
<td>10</td>
<td>1</td>
<td>SENG112, COMP222</td>
</tr>
<tr>
<td>COMP331</td>
<td>Advanced Algorithms</td>
<td>10</td>
<td>2</td>
<td>COMP222</td>
</tr>
<tr>
<td>COMP332</td>
<td>Computer Graphics</td>
<td>10</td>
<td>1</td>
<td>SENG111, COMP111</td>
</tr>
<tr>
<td>COMP341</td>
<td>Machine Intelligence</td>
<td>10</td>
<td>1</td>
<td>SENG111, COMP111, SENG112</td>
</tr>
<tr>
<td>COMP431</td>
<td>Special Topic A</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>COMP432</td>
<td>Special Topic B</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>COMP433</td>
<td>Special Topic C</td>
<td>10</td>
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<td>Permission of Head of Department</td>
</tr>
<tr>
<td>COMP434</td>
<td>Special Topic D</td>
<td>20</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>COMP425</td>
<td>Honours Project</td>
<td>30</td>
<td>Full year</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>COMP441</td>
<td>Cryptographic Techniques</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department and COMP324</td>
</tr>
<tr>
<td>COMP445</td>
<td>Computational Geometry</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department and COMP234</td>
</tr>
<tr>
<td>COMP447</td>
<td>Graph Algorithms</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department and COMP233</td>
</tr>
<tr>
<td>COMP450</td>
<td>Distributed Operating Systems</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>COMP453</td>
<td>Information Visualization</td>
<td>10</td>
<td>2</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>COMP454</td>
<td>Electronic Commerce</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>SENG405</td>
<td>Knowledge Discovery and Data Mining</td>
<td>10</td>
<td>2</td>
<td>Nil</td>
</tr>
<tr>
<td>SENG410</td>
<td>Introduction to Software Engineering 1A</td>
<td>10</td>
<td>2</td>
<td>Nil</td>
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<tr>
<td>SENG411</td>
<td>Introduction to Software Engineering 1</td>
<td>10</td>
<td>1</td>
<td>SENG111</td>
</tr>
<tr>
<td>SENG412</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>1</td>
<td>SENG111</td>
</tr>
<tr>
<td>SENG414</td>
<td>The Online Society</td>
<td>10</td>
<td>2</td>
<td>Nil</td>
</tr>
<tr>
<td>SENG420</td>
<td>Software Engineering</td>
<td>10</td>
<td>2</td>
<td>SENG111, COMP105</td>
</tr>
<tr>
<td>SENG421</td>
<td>Software Analysis and Verification</td>
<td>10</td>
<td>1</td>
<td>SENG112</td>
</tr>
<tr>
<td>SENG422</td>
<td>Software Process</td>
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<td>1</td>
<td>SENG211</td>
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<tr>
<td>SENG431</td>
<td>Advanced Software Engineering</td>
<td>10</td>
<td>1</td>
<td>SENG211</td>
</tr>
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<td>SENG432</td>
<td>Object Oriented Software Engineering</td>
<td>10</td>
<td>1</td>
<td>SENG211</td>
</tr>
<tr>
<td>SENG438</td>
<td>Computer Networks</td>
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<td>1</td>
<td>SENG111</td>
</tr>
<tr>
<td>SENG439</td>
<td>User Interface Design</td>
<td>10</td>
<td>1</td>
<td>SENG111</td>
</tr>
<tr>
<td>SENG440</td>
<td>Concurrent Programming</td>
<td>10</td>
<td>1</td>
<td>SENG111</td>
</tr>
<tr>
<td>SENG441</td>
<td>Software for Distributed Environments</td>
<td>10</td>
<td>2</td>
<td>SENG338</td>
</tr>
<tr>
<td>SENG442</td>
<td>Special Topic E</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>SENG443</td>
<td>Special Topic F</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>SENG444</td>
<td>Software Engineering Project</td>
<td>30</td>
<td>Full year</td>
<td>SENG311 and SENG312</td>
</tr>
<tr>
<td>SENG445</td>
<td>Software Engineering Dissertation</td>
<td>40</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>SENG446</td>
<td>Software Architecture</td>
<td>10</td>
<td>1</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>SENG447</td>
<td>Program Analysis And Software Re-engineering</td>
<td>10</td>
<td>2</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>SENG448</td>
<td>Software Architecture</td>
<td>10</td>
<td>2</td>
<td>Permission of Head of Department</td>
</tr>
</tbody>
</table>

Schedule

Qualification for the Award
1. To qualify for admission to the degree a candidate shall complete, to the satisfaction of the Faculty Board, a course program consisting of subjects totalling not less than 240 credit points approved by the Faculty Board on the recommendation of the Head of the Department of Computer Science and Software, including:
   (a) at least 80 credit points from 100 level subjects;
   (b) at least 60 credit points from 200 level subjects; and
   (c) at least 40 credit points from 300 level subjects.

Enrolment
2. A candidate may not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board.

Credit
3. Credit may be granted for up to 160 credit points except that a candidate may be granted such credit as the Faculty Board determines for subjects completed in the University which have not already been counted towards an award.

Bachelor of Computer Science (Honours)

Award Abbreviation: BCompSc(Hons)

The Bachelor of Computer Science (Honours) program is offered by the Faculty of Engineering and is taken over one full-time year or two part-time years. The program is normally undertaken by students with a superior record in the Bachelor of Computer Science degree who wish to deepen their knowledge in the discipline of Computer Science as further preparation for professional practice or to meet the requirements for admission to a research degree program. Entry to the honours program is possible for graduates of other disciplines. Enquiries regarding admission should be directed to the Course Coordinator for the Bachelor of Computer Science.

Course Structure

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP425</td>
<td>Computer Science Honours Project</td>
<td>30</td>
<td>Full year</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>COMP430</td>
<td>400 level COMP/SENG subjects</td>
<td>40</td>
<td>1, 2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>SENG330</td>
<td>300/400 level COMP/SENG subjects</td>
<td>30</td>
<td>1, 2</td>
<td>Permission HoD</td>
</tr>
</tbody>
</table>

Total 80 credit points

300 level Directed Electives

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP411</td>
<td>Special Topic A</td>
<td>10</td>
<td>1, 2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>COMP412</td>
<td>Special Topic B</td>
<td>10</td>
<td>1, 2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>COMP413</td>
<td>Special Topic C</td>
<td>10</td>
<td>1, 2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>COMP414</td>
<td>Special Topic D</td>
<td>20</td>
<td>1, 2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>COMP441</td>
<td>Cryptographic Techniques</td>
<td>10</td>
<td>1</td>
<td>COMP236 and Permission HoD</td>
</tr>
<tr>
<td>COMP445</td>
<td>Computational Geometry</td>
<td>10</td>
<td>1</td>
<td>COMP233 and Permission HoD</td>
</tr>
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<td>COMP447</td>
<td>Graph Algorithms</td>
<td>10</td>
<td>1</td>
<td>COMP233 and Permission HoD</td>
</tr>
<tr>
<td>COMP450</td>
<td>Distributed Operating Systems</td>
<td>10</td>
<td>2</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>SENG330</td>
<td>Information Visualization</td>
<td>10</td>
<td>2</td>
<td>Permission of Head of Department</td>
</tr>
<tr>
<td>COMP454</td>
<td>Electronic Commerce</td>
<td>10</td>
<td>2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>SENG455</td>
<td>Knowledge Discovery and Data Mining</td>
<td>10</td>
<td>1</td>
<td>COMP333 and Permission HoD</td>
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<tr>
<td>SENG456</td>
<td>Monetary Systems Engineering</td>
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<td>2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>SENG457</td>
<td>Special Topic E</td>
<td>10</td>
<td>1, 2</td>
<td>Permission HoD</td>
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<tr>
<td>SENG458</td>
<td>Special Topic F</td>
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<td>1, 2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>SENG459</td>
<td>Software Architecture</td>
<td>10</td>
<td>2</td>
<td>Permission HoD</td>
</tr>
<tr>
<td>SENG460</td>
<td>Program Analysis and Software Re-engineering</td>
<td>10</td>
<td>1</td>
<td>SENG311 and Permission HoD</td>
</tr>
<tr>
<td>SENG461</td>
<td>Microprocessor Systems</td>
<td>10</td>
<td>2</td>
<td>ELEC270</td>
</tr>
<tr>
<td>SENG462</td>
<td>Programmable Logic Design</td>
<td>10</td>
<td>1</td>
<td>ELEC270</td>
</tr>
<tr>
<td>SENG463</td>
<td>Advanced Computer Systems</td>
<td>10</td>
<td>2</td>
<td>ELEC272</td>
</tr>
<tr>
<td>SENG464</td>
<td>Real Time Systems</td>
<td>10</td>
<td>1, 2</td>
<td>Permission HoD</td>
</tr>
</tbody>
</table>

*Refers to course entries for Bachelor of Computer Science and the Bachelor of Engineering (Software) for full list of Approved Subjects with credit points, semester of offer and assumed knowledge.

400 level subjects are normally available only to students in the following programs offered by the Department of Computer Science and Software Engineering: B Computer Science (Honours), BE (Software), M Computer Science, M Information Technology, PhD.
Bachelor of Computer Science/Bachelor of Music

Award Abbreviations: BCompSc, BMus for continuing students only.

The Bachelor of Computer Science/Bachelor of Music combined degree program is offered by the Faculty of Engineering and the Faculty of Music. This combined program provides students with an opportunity to undertake concurrent study and complete two degrees. In general, the program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oui/tafecred/index.htm

Program Structure

The Bachelor of Computer Science/Bachelor of Music combined degree course is a five year program comprising 360 credit points. In this program, students have the opportunity to select electives according to their individual areas of interest.

To meet the current requirements of the Bachelor of Computer Science component students must complete 180 credit points including 80 credit points at 100 level and a Major Sequence of study. To complete a Major Sequence of study you must complete at least 30 credit points at 200 level and 40 credit points at 300 level, in one area of study. For details of subjects refer to the Bachelor of Computer Science entry.

Bachelor of Construction Management (Building) (External Program)

Award Abbreviation: BConWgt(Bldg)

The Bachelor of Construction Management (Building) is offered by the Faculty of Architecture, Building and Design. The course is accredited by the Australian Institute of Building (AIB), the Australian Institute of Quantity Surveying (AIQS), the Singapore Institute of Surveyors and Valuers and the Singapore Institute of Engineering Technologists, as satisfying the requirements for membership of these institutions.

The course is currently offered as a full-time (on-campus) program and a part-time (distance learning) program. The internal course consists of four years of full-time study, with sixteen weeks of practical experience. The internal program consists of six years of part-time study. It is designed for those currently working in the construction industry who wish to pursue a professional career. Studies combine the disciplines of building and quantity surveying.

The Department of Building uses an integrated problem-based learning approach in which the discipline areas are treated within the single subject 'Building'. This integrated formula applies to all parts of each mode of study. Each year, students enrol in semester long subjects: Building 121, 122, 123, 124; 221, 222, 223, 224; 321, 322, 323, 324; 421, 422, 423, 424, 425 and 426.

The subjects have two main components: Phases which present management problems that generate the framework for learning; and one or more of the Core Study Areas of the course(s); Communications, Technology, Management, Ethics and Principles and Building Economics.

For a list of Approved Computer Science subjects and Directed Electives refer to the course entry for Bachelor of Computer Science.

For a list of Approved Music subjects refer to the course entry for Bachelor of Music.

Schedule

Admission to Candidature

1. (1) An applicant for admission to candidature shall have satisfied the requirements for admission to:
   (a) the degree of Bachelor of Computer Science; or
   (b) a degree in the University, or another university approved for this purpose by the Faculty Board.

2. The Head of the Department of Computer Science and Software Engineering shall, after considering an applicant's previous academic performance in relevant studies, make recommendations to the Faculty Board as to the applicant's suitability for admission to candidature.

3. The Faculty Board, after taking into account the recommendation of the Head of the Department of Computer Science and Software Engineering shall either:
   (a) approve admission to candidature; or
   (b) approve admission to candidature subject to the applicant completing, to the satisfaction of the Faculty Board, such studies as it may prescribe; or
   (c) reject the application.

Grading of the Degree

1. (1) The Faculty Board shall, on the recommendation of the Head of the Department of Computer Science and Software Engineering, determine the grade of honours to be awarded to a candidate upon qualifying for admission to the degree.

2. There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

Qualification for the Award

3. To qualify for admission to the degree a candidate shall pass the program of subjects approved by the Faculty Board on the recommendation of the Head of the Department of Computer Science and Software Engineering totalling not less than 80 credit points and including at least 60 credit points from 400 level subjects.

Credit

4. Credit for previous studies shall not be granted.

Leave of Absence

5. Candidates shall not be entitled to take Leave of Absence from the course.

Time Requirement

6. Candidates for the award shall not extend beyond two calendar years, except that in exceptional circumstances arising in a particular case the Faculty Board may grant permission to extend the term of candidature on such conditions as it considers appropriate.

Subject Code | Subject Name | Credit Points | Semester
--- | --- | --- | ---
Year 1 (80 credit points) | MAC1151 | Discrete Mathematics | 10 | 1
| SENG111 | Introduction to Software Engineering 1 | 10 | 1
| SENG112 | Introduction to Software Engineering 2 | 10 | 2
| SENG114 | The Online Society | 10 | 2
| 100 level Music subjects | 20 | 1, 2

Year 2 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
</table>
| SENG211 | Software Analysis and Verification | 10 | 1
| COMP105 | Internet Communication | 10 | 1
| ELEC170 | Computer Engineering 1 | 10 | 2
| SENG212 | Software Processes | 10 | 2
| 100 level Music subjects | 20 | 1, 2
| 200 level Music subjects | 20 | 1, 2

Year 3 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
</table>
| 100 level Computer Science Directed Elective | 10 | 1, 2
| 200 level Computer Science Directed Elective | 10 | 1, 2
| 200 level Music subjects | 40 | 1, 2
| 300 level Music subjects | 20 | 1, 2

Year 4 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
</table>
| COMP223 | Introduction to Algorithms | 10 | 1
| COMP222 | Theory of Computation | 10 | 2
| 300 level Computer Science Directed Electives | 20 | 1, 2
| 300 level Music subjects | 40 | 1, 2

Year 5 (40 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
</table>
| 300 level Computer Science Directed Electives | 40 | 1, 2

To meet the current requirements of the Bachelor of Music component students must complete 180 credit points of music subjects, including all required music subjects as set out in the course structure in the Bachelor of Music entry.

The following program of study has been agreed between the Faculties of Engineering and Music on 2000 course requirements. It may be varied as a result of future changes in the requirements of the course.

Students enrolled in a combined degree program belong to both faculties and are advised to consult with the two Faculty Offices regarding their academic program.
the various study areas as discrete pieces of information which can be assimilated independently of one another, the Phases and the Study Areas are integrated using a problem-based learning approach. It is within the context of these that the scope of the curriculum, learning objectives and assessment criteria are determined. Subjects are presented with a linked series of tasks or projects, or the type encountered during the building procurement and production process, designed to develop the various areas of skill and knowledge appropriate to that level of the course.

Students work under the guidance of their Phase Managers and tutors. They are expected to attain a required level of competence in each Phase and in each Study Area. The Study Areas do not however, exist as individual subjects. The essence of the Integrated approach is that the knowledge and skills required in each Phase and Study Area must be capable of being applied in the context of other parallel areas of skill and knowledge.

The development of knowledge and expertise in the individual disciplines which contribute to the ability within the construction industry is important. However it is equally important that the interaction between areas of knowledge is appreciated, and that the complex relationships of the various influences on the construction process are thoroughly understood. The learning program is therefore intended to parallel the processes and experiences encountered in management in the construction industry and to reflect the way in which builders and quantity surveyors respond to problems in practice.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/eniversity/index.html

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree. Students who have completed the TAFE NSW course Certificate IV in Building Studies, Residential, will receive 55 credit points at 100 level or 80 credit points at 100 level for a Diploma in Building Studies. Students who have completed the TAFE NSW Diploma in Architectural Technology will receive 80 credit points at 100 level, or 55 credit points at 100 level for a Certificate IV in Architectural Technology towards the Bachelor of Construction Management (Building).

Course Structure and List of Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Program Phases</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>100 Level</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLDG121</td>
<td>Building 121</td>
<td>25</td>
<td>1, 2</td>
<td>1 and 2</td>
</tr>
<tr>
<td>BLDG122</td>
<td>Building 122</td>
<td>15</td>
<td>1, 2</td>
<td>3</td>
</tr>
<tr>
<td>BLDG123</td>
<td>Building 123</td>
<td>15</td>
<td>1, 2</td>
<td>4</td>
</tr>
<tr>
<td>BLDG124</td>
<td>Building 124</td>
<td>25</td>
<td>1, 2</td>
<td>5 and 6</td>
</tr>
<tr>
<td><strong>200 Level</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLDG221</td>
<td>Building 221</td>
<td>25</td>
<td>1, 2</td>
<td>7</td>
</tr>
<tr>
<td>BLDG222</td>
<td>Building 222</td>
<td>15</td>
<td>1, 2</td>
<td>8A</td>
</tr>
<tr>
<td>BLDG223</td>
<td>Building 223</td>
<td>15</td>
<td>1, 2</td>
<td>8B</td>
</tr>
<tr>
<td>BLDG224</td>
<td>Building 224</td>
<td>25</td>
<td>1, 2</td>
<td>9</td>
</tr>
<tr>
<td><strong>300 Level</strong></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>BLDG321</td>
<td>Building 321</td>
<td>25</td>
<td>1, 2</td>
<td>11</td>
</tr>
<tr>
<td>BLDG322</td>
<td>Building 322</td>
<td>15</td>
<td>1, 2</td>
<td>10</td>
</tr>
<tr>
<td>BLDG323</td>
<td>Building 323</td>
<td>15</td>
<td>1, 2</td>
<td>12</td>
</tr>
<tr>
<td>BLDG324</td>
<td>Building 324</td>
<td>25</td>
<td>1, 2</td>
<td>13</td>
</tr>
<tr>
<td><strong>400 Level</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLDG421</td>
<td>Building 421</td>
<td>25</td>
<td>1, 2</td>
<td>14</td>
</tr>
<tr>
<td>BLDG422</td>
<td>Building 422</td>
<td>15</td>
<td>1, 2</td>
<td>15A</td>
</tr>
<tr>
<td>BLDG425</td>
<td>Building 425</td>
<td>15</td>
<td>1, 2</td>
<td>16A</td>
</tr>
<tr>
<td>BLDG426</td>
<td>Building 426</td>
<td>25</td>
<td>1, 2</td>
<td>16B</td>
</tr>
</tbody>
</table>

Eligible students may opt to undertake the Honours program

**Honours Program**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Program Phases</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCDG421</td>
<td>Building 421</td>
<td>25</td>
<td>1, 2</td>
<td>14</td>
</tr>
<tr>
<td>BCDG422</td>
<td>Building 422</td>
<td>15</td>
<td>1, 2</td>
<td>15A</td>
</tr>
<tr>
<td>BCDG433</td>
<td>Building 433</td>
<td>15</td>
<td>1, 2</td>
<td>16B</td>
</tr>
<tr>
<td>BCDG434</td>
<td>Building 434</td>
<td>25</td>
<td>1, 2</td>
<td>15C</td>
</tr>
</tbody>
</table>

**Pass and Honours Programs**

Entry to the Bachelor of Construction Management (Building) Honours program is restricted. It requires the completion of 280 credit points (which includes subjects granted as credit within the course) including completion of the subjects BLDG421 and BLDG422; no failure in any subject, and a minimum Weighted Average Mark (WAM) of at least 60, calculated after completion of BLDG424 and BLDG425.

Award Abbreviation: BComMgt(Bldg)

The Bachelor of Construction Management (Building) is offered by the Faculty of Architecture, Building and Design. The course is accredited by the Australian Institute of Building (AIB), the Australian Institute of Quantity Surveying (AQS), the Singapore Institute of Surveyors and Valuers and the Singapore Institute of Engineering Technologists, as satisfying the requirement for membership of these institutions.

The course is currently offered as a full-time internal (on-campus) program and a part-time external studies (distance learning) program. The external course consists of four years of full-time study, with sixteen weeks of practical experience. The internal program consists of six years of part-time studies. It is designed for those currently working in the construction industry who wish to pursue a professional career. Studies combine the disciplines of building and quantity surveying.

The Department of Building was an integrated problem-based learning approach in which all of the various discipline areas are treated within the single subject "Building". This integrated approach applies in all parts of each mode of study. Each year, students enrol in semester-long subjects: Building 121, 122, 123, 124, 221, 222, 223, 224, 321, 322, 323, 324, 421, 422, 423, 424, 425 and 426.

The subjects have two primary components: Phases which present management problems that generate the framework for learning, and one or more of the Core Study Areas of the course(s): Communications, Technology, Management, Ethics and Principles and Building Economics.

Rather than regard the various study areas as discrete pieces of information which can be assimilated independently of one another, the Phases and the Study Areas are integrated using a problem-based learning approach. It is within the context of these two components that the scope of the curriculum, learning objectives and assessment criteria are determined. Students are presented with a linked series of tasks or projects, of the type encountered during the building procurement and production process, designed to develop the various areas of skill and knowledge appropriate to that level of the course.
The development of knowledge and expertise in the individual disciplines which contribute to the ability to work within the construction industry, is important. However it is equally important that the interaction between areas of knowledge is appreciated, and that the complex relationships of the various influences on the construction process are thoroughly understood. The learning program is therefore intended to parallel the processes and experiences encountered in management in the construction industry and to reflect the way in which builders and quantity surveyors respond to problems in practice.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website at http://www.newcastle.edu.au/services/outs/aout/tafecredit/index.htm

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree. Students who have completed the TAFE NSW course Certificate IV in Building Studies, Residential, will receive 55 credit points at 100 level or 80 credit points at 100 level for a Diploma in Building Studies. Students who have completed the TAFE NSW Diploma in Architectural Technology will receive 80 credit points at 100 level or 55 credit points at 100 level for a Certificate IV in Architectural Technology towards the Bachelor of Construction Management (Building).

Bachelor of Design (Graphic)

Award Abbreviation: BDes This course is available only to continuing students, level 400, 2009.

The Bachelor of Design (Graphic) is offered by the Faculty of Architecture, Building and Design. This is a four year full-time course designed to meet the growing demand for the practice of design in all aspects of the visual communication industry, business and society. Graphic Designers are involved in the development of design for advertising material for print, film, theatre, and television, and in the making of digital media, illustration, corporate graphics, publishing, packaging, signage and event promotions.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website at http://www.newcastle.edu.au/services/outs/aout/tafecredit/index.htm

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree. Students who have completed the TAFE NSW Diploma of Graphic Design will receive 80 credit points at 100 level towards the Bachelor of Design (Graphic).

Course Structure

To complete the course, students must pass subjects totalling 320 credit points from the list of Approved Subjects. Except for 30 credit points of electives (10 credit points in Years 2, 3 and 4 respectively), all listed subjects are compulsory.

Approved Subjects

Students who need to complete subjects which are Not Offered after 1999 should refer to the Faculty Student Guide for details of transition arrangements and equivalent subjects.
4. The Faculty Board may grant credit, in specified subjects, in recognition of substantial professional or practical experience in accordance with the published criteria determined by the Faculty Board.

Schedule

Specialisations
1. The degree may be conferred as:
   a. Bachelor of Design (Industrial)
   b. Bachelor of Design (Graphic)

Qualification for Admission to the Degree
2. To qualify for admission to the degree, a candidate shall pass subjects totalling not less than 370 credit points from the list of Approved Subjects.

Grading of the Degree
3. (1) The degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.

   (2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division 1 and Division 2.

Credit
4. The Faculty Board may grant credit, in specified subjects, in recognition of substantial professional or practical experience in accordance with the published criteria determined by the Faculty Board.

   * There shall be no further intake into the Graphic Design specialisation from Semester 1, 2000.

Bachelor of Design (Industrial)

Award Abbreviation: BDes

The Bachelor of Design (Industrial) is offered by the Faculty of Architecture Building and Design. This four-year full-time course meets the demand for design in all aspects of manufacturing industry, business and society. The industrial design sector offers significant growth and employment potential in Australia, with opportunities for employment in a range of areas: heavy and light industry, design consultancies, packaging, recreation, and set design for theatre, film and television.

TAFE Credit

Credit transfer arrangements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/australianartic/index.htm

Course Structure and Approved Subjects

Students will study design process, model making, design history, materials and processes and a range of drawing techniques. They will employ these skills in the pursuit of answers to design problems in the project work which is the foundation of this course.

Subject Code  Subject Name             Credit Points  Semester  Assumed Knowledge

100 Level (Year 1) The following subjects are compulsory:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN110</td>
<td>Graphic Design Principles 1</td>
<td>10</td>
<td>1</td>
<td>DESN166</td>
</tr>
<tr>
<td>DESN120</td>
<td>Graphic Design Drawing 1</td>
<td>10</td>
<td>1</td>
<td>DESN111</td>
</tr>
<tr>
<td>DESN130</td>
<td>Graphic Design Technology 1</td>
<td>10</td>
<td>1</td>
<td>DESN110</td>
</tr>
<tr>
<td>DESN147</td>
<td>Dyson Design</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DESN111</td>
<td>Graphic Design Principles 2</td>
<td>10</td>
<td>1</td>
<td>DESN166</td>
</tr>
<tr>
<td>DESN121</td>
<td>Technical Illustration (Graphic)</td>
<td>10</td>
<td>2</td>
<td>DESN120</td>
</tr>
<tr>
<td>DESN131</td>
<td>Graphic Design Photography</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DESN146</td>
<td>History of Design and Technology</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

200 Level (Year 2) The following subjects are compulsory:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN201</td>
<td>Australian Design History</td>
<td>10</td>
<td>1</td>
<td>DESN146</td>
</tr>
<tr>
<td>DESN210</td>
<td>Graphic Design A</td>
<td>10</td>
<td>1</td>
<td>DESN111</td>
</tr>
<tr>
<td>DESN220</td>
<td>Technical Illustration 2</td>
<td>10</td>
<td>1</td>
<td>DESN110</td>
</tr>
<tr>
<td>DESN230</td>
<td>Design Imaging 1</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DESN203</td>
<td>Issues in Design</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DESN211</td>
<td>Graphic Design B</td>
<td>10</td>
<td>2</td>
<td>DESN120</td>
</tr>
<tr>
<td>DESN231</td>
<td>Design Imaging 2</td>
<td>10</td>
<td>2</td>
<td>DESN220</td>
</tr>
</tbody>
</table>

300 Level (Year 3) The following subjects are compulsory:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN310</td>
<td>Graphic Design, Images and Ideas</td>
<td>10</td>
<td>1</td>
<td>DESN211</td>
</tr>
<tr>
<td>DESN320</td>
<td>Design for Digital Media 1</td>
<td>10</td>
<td>1</td>
<td>DESN311</td>
</tr>
<tr>
<td>DESN340</td>
<td>3D Graphic Design</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>DESN311</td>
<td>Advertising Design</td>
<td>10</td>
<td>2</td>
<td>DESN310</td>
</tr>
<tr>
<td>DESN331</td>
<td>Design for Digital Media 2</td>
<td>10</td>
<td>2</td>
<td>DESN320</td>
</tr>
<tr>
<td>DESN321</td>
<td>Technical Illustration 3</td>
<td>10</td>
<td>2</td>
<td>DESN180 or DESN220</td>
</tr>
<tr>
<td>DESN332</td>
<td>Graphic Design Production</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

400 Level (Year 4) The following subjects are compulsory:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN410</td>
<td>Graphic Design C</td>
<td>20</td>
<td>1</td>
<td>DESN310, DESN311</td>
</tr>
<tr>
<td>MRT241</td>
<td>Professional Practice in Design</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>DESN411</td>
<td>Graphic Design D</td>
<td>20</td>
<td>2</td>
<td>DESN230, DESN220</td>
</tr>
<tr>
<td>DESN412</td>
<td>Graphic Design E</td>
<td>20</td>
<td>2</td>
<td>DESN410</td>
</tr>
</tbody>
</table>

*Electives
Three ten credit point subjects may be chosen from the Department of Design, or from other Departments within the University as electives. These electives, subject to timetable availability, are intended for students to address their individual vocational interests.

Schedule

Specialisations
1. The degree may be conferred as:
   a. Bachelor of Design (Industrial)
   b. Bachelor of Design (Graphic)

Qualification for Admission to the Degree
2. To qualify for admission to the degree, a candidate shall pass subjects totalling not less than 370 credit points from the list of Approved Subjects.

Grading of the Degree
3. (1) The degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.

   (2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division 1 and Division 2.

Credit
4. The Faculty Board may grant credit, in specified subjects, in recognition of substantial professional or practical experience in accordance with the published criteria determined by the Faculty Board.

   * There shall be no further intake into the Graphic Design specialisation from Semester 1, 2000.
Bachelor of Design (Visual Communication)

Award Abbreviation: BDes(VisComm)

The Bachelor of Design (Visual Communication) is offered by the Faculty of Architecture, Building and Design. This is a three year full-time or equivalent part-time course which replaces the four year Bachelor of Design (Graphic). It is designed to meet the growing demand for the practice of design in all aspects of the visual communication industry. Through selective study and appropriate subject choices, the program offers students the opportunity to satisfy their broader interests and abilities, whilst equipping them with skills and flexibility to occupy a range of positions within the visual communication industry. Visual communication graduates are involved in the development of design for advertising material for print, film, theatre, television and in the making of digital media. Illustration, corporate graphics, publishing, packaging, signage and event promotions.

TAFE Credit

Credit transfers with TAFE NSW and other education providers are under continuous negotiation. For more information on articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/units/au/tafecredit/index.htm.

Course Structure

The course structure enables students to major in one of three areas: digital media design, graphic design, or illustration. The choice of specialisation is not made until the beginning of Year 2.

To complete the course, students must pass subjects totalling 240 credit points from the list of Approved Subjects. There are three categories of subjects:

(1) Group A Compulsory Subjects (comprising 80 credit points at 100 level; 60 credit points at 200 level; 60 credit points at 300 level);

(2) Group B Electives (80 credit points from specified 200 level DESN subjects);

(3) Group C Electives (20 credit points general electives).

Year 1 comprises all Group A subjects (80 credit points);

Year 2 comprises 60 credit points of Group A subjects and 20 credit points of Group B subjects;

Year 3 comprises 60 credit points of Group A subjects and 20 credit points of Group C subjects.

Schedule

Qualification for the Degree

1. To qualify for admission to the degree, a candidate shall pass the program of study approved by the Faculty Board totalling 240 credit points.

Credit

2. The Faculty Board may grant credit in subjects not exceeding 160 credit points.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subjects Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
</table>

Group A Compulsory Subjects:

| DESN110     | Visual Communication Principles 1 | 10  | 1    | Nil              |
| DESN120     | Visual Communication Drawing 1    | 10  | 1    | Nil              |
| DESN130     | Visual Communication Technology 1 | 10  | 1    | Nil              |
| DESN147     | Design Process                    | 10  | 1    | Nil              |
| DESN111     | Visual Communication Principles 2 | 10  | 2    | Nil              |
| DESN121     | Visual Communication Drawing 2    | 10  | 2    | Nil              |
| DESN131     | Visual Communication Typography   | 10  | 2    | Nil              |
| DESN136     | History of Design and Technology | 10  | 2    | Nil              |

Group B Electives to the value of 20 credit points may be chosen from:

| DESN210     | Typography                             | 10  | 1    | DESN110, DESN111, DESN130 |
| DESN14      | Advertising Design                      | 10  | 2    | DESN110, DESN111          |
| DESN220     | Illustration for Industry               | 10  | 1    | DESN110, DESN121          |
| DESN222     | Interpretive Illustration               | 10  | 2    | DESN110, DESN121          |
| DESN223     | Design for Digital Media                | 10  | 1    | DESN110                  |
| DESN224     | Screen-based Digital Media              | 10  | 2    | DESN130                  |
| DESN225     | 3D Graphic Design                       | 10  | 1    | DESN130                  |
| DESN226     | Design Studio Photography               | 10  | 2    | DESN131                  |
| DESN227     | Scientific Illustration                 | 10  | 1    | DESN120, DESN121          |
| DESN228     | Wildlife Illustration                   | 10  | 2    | DESN120, DESN121          |

Group C Electives to the value of 20 credit points may be chosen from:

| DESN300     | Visual Communication: Forms & Functions | 10  | 2    | DESN11, DESN123         |
| DESN312     | Visual Communication Major Study - Part 1 | 10  | 1    | DESN11, DESN123         |
| DESN323     | Visual Communication Major Study - Part 2 | 20  | 1    | DESN11, DESN123         |

Schedule

Qualification for the Degree

1. To qualify for admission to the degree, a candidate shall pass the program of study approved by the Faculty Board totalling 240 credit points.

Credit

2. The Faculty Board may grant credit in subjects not exceeding 160 credit points.
Bachelor of Design (Visual Communication) (Honours)

**Award Abbreviation:** BDes(VisComm)(Hons)

The Bachelor of Design (Visual Communication) (Honours) is offered by the Faculty of Architecture, Building and Design. It is a one year full-time or equivalent part-time course designed to provide an opportunity for specialist study and practice in visual communication.

Students may specialise in one of three areas: Digital Media Design, Graphic Design, or Illustration. To complete the course, students must pass subjects totalling 80 credit points at 400 level from the list of Approved Subjects.

Applicants for admission must have completed a Bachelor of Design (Visual Communication) or equivalent and have achieved at least a Credit Grade Point Average overall. In some cases, applicants may also be requested to attend an interview and present a portfolio or artwork.

### Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN400</td>
<td>Visual Communication Honours A</td>
<td>20</td>
<td>1 or 2</td>
<td>Nil</td>
</tr>
<tr>
<td>DESN401</td>
<td>Visual Communication Honours B</td>
<td>20</td>
<td>1 or 2</td>
<td>DESN400</td>
</tr>
<tr>
<td>DESN402</td>
<td>Visual Communication Honours C</td>
<td>20</td>
<td>1 or 2</td>
<td>DESN400, DESN401</td>
</tr>
<tr>
<td>DESN403</td>
<td>Visual Communication Honours D</td>
<td>20</td>
<td>1 or 2</td>
<td>DESN400, DESN401, DESN402</td>
</tr>
</tbody>
</table>

### Schedule

#### Specialisations

1. A candidate may undertake the degree in one of the specialisations approved by the Faculty Board.

#### Admission to Candidature

2. To be eligible for admission to candidature an applicant in a specialisation other than Wildlife Illustration shall have satisfied the requirements for admission to an ordinary degree of the University or other award approved for this purpose by the Faculty Board, at an approved level of performance, with a major study in the named area of specialisation.

3. The Faculty Board may require that an applicant present at interview a portfolio of artwork relevant to the proposed area of study.

4. An applicant for admission to candidature in the Wildlife Illustration specialisation shall:
   - have satisfied requirements for admission to a degree of the University of Newcastle, or to a degree of another tertiary institution approved for the purpose by Faculty Board, at an approved level, with specialisation in drawing, graphics, painting, printmaking, photography or wildlife illustration; or
   - have satisfied requirements for admission to a Bachelor of Science degree of the University of Newcastle or an approved tertiary institution, approved by the Faculty Board; and
   - present at interview a substantial portfolio of artwork relevant to the proposed area of study and a written statement explaining the proposed program of study.

#### Ranking for Selection

4. In the event that places in the program are limited, candidates shall be admitted on the basis of academic merit (subject to a satisfactory portfolio assessment where applicable).

#### Qualification for the Degree

5. To qualify for admission to the degree a candidate shall pass subjects totalling 80 credit points at 400 level from the list of Approved Subjects.

### Credit

6. The Faculty Board may grant credit to a candidate of up to 40 credit points for work completed in the Bachelor of Fine Art (Honours).

7. There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

---

Bachelor of Development Studies

**Award Abbreviation:** BDev

Development, in its various forms, is one of the most serious problems facing the contemporary world. The Bachelor of Development Studies provides opportunities to study the causes and consequences of unequal development and assess policy options for a more equitable and sustainable future. Understanding the nature and operation of development processes is critical to the development question.

The course examines development processes at a variety of scales, with a focus on urban and regional impacts, sustainable development and cultural diversity. It emphasises the development of critical thinking skills; rationales for ethical action and social and environmental responsibility; recognition of cultural differences and viewpoints; effective communication skills; the capacity to use information technology; and the management of information.

The course focuses on the benefits of an inter-disciplinary approach. In particular, studies are drawn from the disciplines of sociology and anthropology, economics and politics, human and physical geography, and environmental management. Graduates will find themselves well-placed to meet the challenges of global, national and local development.

### Course Structure

The degree is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totalling 240 credit points. Most subjects have a value of 10 credit points.

The course contains three components: core compulsory subjects that build an inter-disciplinary understanding of the development question; a major sequence of subjects in one of four key areas; and elective studies.

The core subjects provide the basic interdisciplinary framework. A major sequence of study is developed with other subjects in one of the four key themes: Urban and Regional Development; Cultures and Citizenship; Environmental Sustainability or Globalisation. A major sequence requires the study of a subject area for 3 years. A limited number of subjects outside the elected major may be taken to make up the remaining subjects required for the degree.

An example of a degree pattern in which the major sequence is Urban and Regional Development is outlined below:

#### Sample Program: Urban and Regional Development Major

For information about credit points, semesters of offer and assumed knowledge requirements, see the list of Approved Subjects.

**100 level (Year 1) (60 credit points)**

<table>
<thead>
<tr>
<th>Core Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON110</td>
</tr>
<tr>
<td>ECON111</td>
</tr>
<tr>
<td>ECON112</td>
</tr>
<tr>
<td>ECON113</td>
</tr>
<tr>
<td>ECON114</td>
</tr>
<tr>
<td>ECON115</td>
</tr>
<tr>
<td>ECON116</td>
</tr>
<tr>
<td>ECON117</td>
</tr>
</tbody>
</table>

**200 level (Year 2) (80 credit points)**

<table>
<thead>
<tr>
<th>Core Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON210</td>
</tr>
<tr>
<td>ECON211</td>
</tr>
<tr>
<td>GEOG212</td>
</tr>
<tr>
<td>SOCI211</td>
</tr>
</tbody>
</table>

**Major Subjects (select at least 20 credit points)**

<table>
<thead>
<tr>
<th>Major Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG310</td>
</tr>
<tr>
<td>GEOG311</td>
</tr>
<tr>
<td>GEOG312</td>
</tr>
<tr>
<td>SOCI311</td>
</tr>
</tbody>
</table>

**Other subjects (select up to 20 credit points):** may be selected from subjects listed for another major or from subjects approved as Group A and Group B subjects for the Bachelor of Science.
## Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON110</td>
<td>Microeconomics I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics I</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>EMGT104</td>
<td>Environmental Issues &amp; The Management</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EMGT102</td>
<td>Social Development &amp; The Environment</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GEOG213</td>
<td>Geographies of Development</td>
<td>10</td>
<td>1</td>
<td>GEOG102 or EMGT102 and EMGT104</td>
</tr>
<tr>
<td>SOCA201</td>
<td>Indigenous Peoples of the Contemporary World</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA 100 level subjects</td>
</tr>
</tbody>
</table>

## Core Subjects

- ECON333: Asian Business Development
- EMGT307: Advanced Studies in Sustainability
- GEOG234: Globalisation: Cities, Economies
- SOCA238: Citizenship & Globalisation

## Major Subjects (select 30 credit points)

- GEOG302: Advanced Methods in Human Geography
- GEOG309: Society & Space
- GEOG323: Post-colonial Geographies
- GEOG325: Geographic Information Systems
- SOCA306: Environment & Society

## Globalisation & Economic Development Major

### 200 level

**Minimum of 20 credit points selected from:**

- GEOG209: Post-colonial Geographies
- GEOG303: Women, Ecology & Development
- GEOG307: Social Theory & Social Change
- SOCA101: Sociology of Corruption

### 300 level

**Minimum of 20 credit points selected from:**

- GEOG209: Post-colonial Geographies
- GEOG303: Women, Ecology & Development
- GEOG307: Social Theory & Social Change
- SOCA101: Sociology of Corruption

## Cultural & Citizenship Major

### 200 level

**Minimum of 20 credit points selected from:**

- SOCA214: Politics of Racial Boundaries
- SOCA217: Social Theory & Social Change
- SOCA221: Sociology of Community
- SOCA222: Religion & Politics in Contemporary Society
- SOCA262: Indian & International Society & Culture

### 300 level

**Minimum of 20 credit points selected from:**

- GEOG309: Post-colonial Geographies
- SOCA201: Sociology of Corruption
- SOCA202: Women, Ecology & Development
- SOCA203: Social Theory & Social Change

## Urban & Regional Development Major

### 200 level

**Minimum of 20 credit points selected from:**

- GEOG208: Cities & Regions
- GEOG211: Methods in Human Geography
- GEOG307: Advanced Studies in Sustainability
- SOCA217: Ethnicity & Migration Studies

### 300 level

**Minimum of 20 credit points selected from:**

- GEOG208: Cities & Regions
- GEOG211: Methods in Human Geography
- SOCA217: Ethnicity & Migration Studies

## Qualification for the Degree

1. To qualify for admission to the degree, candidates shall complete the requirements of the course program as determined by Faculty Board.
2. The course program shall consist of subjects totalling not less than 240 credit points approved by the Faculty Board and include:
   (a) not more than 100 credit points from 100 level subjects; and
   (b) at least 60 credit points from 300 level subjects.

## Credit

3. (1) A candidate may be granted credit:
   (a) for up to 160 credit points in recognition of subjects completed at another tertiary institution which have not been previously counted towards a completed award;
Bachelor of Early Childhood Teaching  
(Central Coast Campus)

**Award Abbreviation:** BECT

The Bachelor of Early Childhood Teaching is offered by the Faculty of the Central Coast. This three year course prepares students to work as teachers/directors in the 0-5 age setting.

**TAFE Credit**

Credit transfer agreements with TAFE, NSW and other education providers are under continuous negotiation. For more information and articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/education/tafecdindex.html. For further detail contact the Faculty Office.

**Course Structure**

The Bachelor of Early Childhood Teaching consists of 240 credit points of study. For the Bachelor of Early Childhood Teaching award, students combine Studies in Early Childhood with educational studies.

A recommended program for the Bachelor of Early Childhood Teaching is:

**Year 1**

In year 1, full-time students will undertake a total of 80 credit points comprising 30 credit points of discipline study and 50 credit points of educational studies.

**Year 2**

In year 2, full-time students will undertake a total of 80 credit points comprising 40 credit points of discipline study and 40 credit points of educational studies.

**Year 3**

In year 3, full-time students will undertake a total of 80 credit points comprising 20 credit points of discipline study and 60 credit points of educational studies.

**Fieldwork**

The Fieldwork subjects must be successfully completed in the prescribed sequence.

Approved Studies for the Bachelor of Early Childhood Teaching

Candidates may undertake to study equivalent discipline subjects at Callaghan Campus.

**Schedule**

Qualification for the Award

1. To qualify for admission to the degree, a candidate shall:
   
   (a) pass a program including practical experience approved by the Faculty Board totalling 240 credit points, including not less than 130 credit points of discipline studies and not fewer than 100 credit points of discipline studies as specified in the List of Approved Subjects; and
   
   (b) satisfy the essential standards prescribed by the Faculty Board.

Withdrawal from Subjects

2. Other than in exceptional circumstances approved by the Dean, a candidate shall not be permitted to withdraw from the Fieldwork subjects later than the day before the commencement of the Fieldwork.

Absence

3. (1) The Dean may grant a candidate Leave of Absence which may be subject to conditions.

   (2) Leave of Absence may not be taken without the approval of the Dean.

Bachelor of Economics

**Award Abbreviation:** BEc

Note: This course is being reviewed in 2000. Some changes may occur after publication.

The Bachelor of Economics, which is offered by the Faculty of Economics and Commerce, provides considerable flexibility in the choice of subjects and specialist pursuits. It is a three year full-time (or equivalent part-time) course which starts with a broad core of subjects and then progresses to one of the three major sequences of study offered in the degree: Economics; Policy Analysis; Money; Banking; Trade and Finance; or Econometrics and Business Statistics. Students must complete at least one major sequence.

Students may also select from studies in accounting, law, management, marketing, information systems, employment studies and other areas. This facilitates employment opportunities in both the economics and business fields, in areas such as finance and banking, securities, management, industrial relations, personnel management, and as professional economists in the public or private sector.

With the choice of an approved set of subjects, graduates may apply for Senior Associate membership of the Australian Institute of Banking and Finance.

Honours: Available as an additional year to students who have achieved a Credit grade point average.
TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at https://www.newcastle.edu.au/services/ouc/services/tafecredit/index.htm.

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree for students who have completed one of the following TAFE NSW courses:
- Advanced Diploma in Business (Management)
- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Course Structure
To complete the degree, students must pass subjects totalling 240 credit points (generally made up of 24 subjects worth 10 credit points each). The course program has three distinct components: Core Subjects, a Major Sequence and Elective subjects, which may include a second major, but must also include 60 credit points at 300 level.

The 240 credit points required to complete the degree must include:
- all 100 level Core Subjects;
- a Major Sequence in Economic Policy Analysis, Econometrics and Business Statistics or Money, Banking and Finance;
- no more than 100 credit points at 100 level and
- at least 60 credit points at 300 level.

Core and Major Sequence Subjects - Economic Policy Analysis

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level - Economic Policy Analysis Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core</td>
<td>ACH101 Financial Accounting</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON110 Microeconomics 1</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON111 Macroeconomics 1</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HRM111 Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INFO101 Introduction to Information Systems</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON113 Basic Econometrics and Quantitative Analysis I</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
</tbody>
</table>

*Plus elective subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 level - Economic Policy Analysis Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compulsory Major Sequence Subjects</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON250 Microeconomics 2</td>
<td>10</td>
<td>2</td>
<td>ECON110</td>
<td></td>
</tr>
<tr>
<td>ECON251 Microeconomics 2</td>
<td>10</td>
<td>1</td>
<td>ECON111</td>
<td></td>
</tr>
</tbody>
</table>

*Plus choose two of:
- ECON230 Introductory Labour Economics | 10 | 2 | ECON110 and ECON111 |
- ECON233 Asian Business Development | 10 | N/A 2001 | 30 credit points |
- ECON234 The Rise of Consumer Society | 10 | 2 | 30 credit points |
- ECON236 Australian Business History | 10 | N/A 2001 | 30 credit points |
- ECON239 Business Economics | 10 | 1 | ECON110 and ECON111 |
- ECON245 Basic Econometrics and Quantitative Analysis 2 | 10 | 2 | ECON113 and at least one of ECON110 and ECON111 |
- ECON246 Economics of Information and Networks | 10 | 2 | |
- ECON247 International Business Environment | 10 | 1 | |
- ECON252 Introduction to International Trade and Finance | 10 | 1 | ECON110 and ECON111 |
- ECON254 Money and Banking | 10 | 1 | ECON111 |

*Plus elective subjects

Core and Major Sequence Subjects - Econometrics and Business Statistics Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level - Econometrics and Business Statistics Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core</td>
<td>ACH111 Financial Accounting</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON110 Microeconomics 1</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON111 Macroeconomics 1</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HRM111 Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INT111 Introduction to Information Systems</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON113 Basic Econometrics and Quantitative Analysis 1</td>
<td>10</td>
<td>1,2</td>
<td></td>
</tr>
</tbody>
</table>

*Plus elective subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 level - Econometrics and Business Statistics Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compulsory Major Sequence Subjects</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON230 Microeconomics 2</td>
<td>10</td>
<td>2</td>
<td>ECON110</td>
<td></td>
</tr>
<tr>
<td>ECON231 Microeconomics 2</td>
<td>10</td>
<td>1</td>
<td>ECON111</td>
<td></td>
</tr>
<tr>
<td>ECON235 Basic Econometrics and Quantitative Analysis 2</td>
<td>10</td>
<td>2</td>
<td>ECON113 and ECON110 and ECON111</td>
<td></td>
</tr>
<tr>
<td>STAT101 Data Analysis</td>
<td>10</td>
<td>1</td>
<td>STAT105</td>
<td></td>
</tr>
</tbody>
</table>

*Plus elective subjects

Core and Major Sequence Subjects - Environmental Economics Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 level - Environmental Economics Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compulsory Major Sequence Subjects</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON230 Microeconomics 2</td>
<td>10</td>
<td>2</td>
<td>ECON110</td>
<td></td>
</tr>
<tr>
<td>ECON231 Microeconomics 2</td>
<td>10</td>
<td>1</td>
<td>ECON111</td>
<td></td>
</tr>
<tr>
<td>ECON235 Basic Econometrics and Quantitative Analysis 2</td>
<td>10</td>
<td>2</td>
<td>ECON113 and ECON110 and ECON111</td>
<td></td>
</tr>
<tr>
<td>ECON234 Environmental Economics</td>
<td>10</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Plus elective subjects
Core and Major Sequence Subjects - Money, Banking, Trade and Finance Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level - Money, Banking, Trade and Finance Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>IRR111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>INF0101</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON113</td>
<td>Basic Econometrics and Quantitative Analysis 1</td>
<td>10</td>
<td>1, 2</td>
<td>(Not available to B Business or B Information Science students)</td>
</tr>
<tr>
<td>200 level - Money, Banking, Trade and Finance Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON250</td>
<td>Microeconomics 2</td>
<td>10</td>
<td>2</td>
<td>ECON110</td>
</tr>
<tr>
<td>ECON251</td>
<td>Macroeconomics 2</td>
<td>10</td>
<td>1</td>
<td>ECON111</td>
</tr>
<tr>
<td>ECON252</td>
<td>Introduction to International Trade and Finance</td>
<td>10</td>
<td>1</td>
<td>ECON110 and ECON111</td>
</tr>
<tr>
<td>ECON254</td>
<td>Money and Banking</td>
<td>10</td>
<td>1</td>
<td>ECON111</td>
</tr>
<tr>
<td>300 level - Money, Banking, Trade and Finance Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON306</td>
<td>International Business and Finance</td>
<td>10</td>
<td>2</td>
<td>ECON252 or both ECON250 and ECON251</td>
</tr>
<tr>
<td>ECON322</td>
<td>Money and Finance</td>
<td>10</td>
<td>1</td>
<td>ECON254 or both ECON250 and ECON251</td>
</tr>
<tr>
<td>ECON223</td>
<td>Financial Economics</td>
<td>10</td>
<td>2</td>
<td>ECON252 or ECON254 or both ECON250 and ECON251</td>
</tr>
<tr>
<td>ECON330</td>
<td>Labour Economics</td>
<td>10</td>
<td>1</td>
<td>ECON230 or both ECON250 and ECON251</td>
</tr>
<tr>
<td>ECON332</td>
<td>Environmental Economics</td>
<td>10</td>
<td>1</td>
<td>Expected to have advanced to third year students</td>
</tr>
<tr>
<td>ECON333</td>
<td>Asian Business Development</td>
<td>10</td>
<td>N/A 2001</td>
<td>30 credit points at 200 level or ECON234, ECON236 or ECON247</td>
</tr>
<tr>
<td>ECON334</td>
<td>The Rise of Consumer Society</td>
<td>10</td>
<td>2</td>
<td>30 credit points at 200 level or ECON233, ECON248 or ECON247</td>
</tr>
<tr>
<td>ECON336</td>
<td>Australian Business History</td>
<td>10</td>
<td>N/A 2001</td>
<td>30 credit points at 200 level or ECON233, ECON248 or ECON247</td>
</tr>
<tr>
<td>ECON340</td>
<td>Econometric Modelling and Forecasting</td>
<td>10</td>
<td>1</td>
<td>ECON245</td>
</tr>
<tr>
<td>ECON347</td>
<td>International Business Environment</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Approved Subjects Offered by the Faculty of Economics and Commerce

List includes subjects offered by other faculties which are commonly undertaken by students in the Bachelor of Commerce.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td>ACH101</td>
</tr>
<tr>
<td>ACH201</td>
<td>Corporate Accounting and Reporting</td>
<td>10</td>
<td>1</td>
<td>ACH101</td>
</tr>
<tr>
<td>ACH202</td>
<td>Corporate Financial Regulation and Control</td>
<td>10</td>
<td>2</td>
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Schedule

Qualification for the Degree
1. To qualify for admission to the degree, a candidate shall complete a program approved by the Faculty Board totalling not less than 240 credit points from the list of Approved Subjects, and including:
(a) the Core Subjects prescribed for the course by the Faculty Board;
(b) a Major Sequence of subjects approved for the course by the Faculty Board;
(c) not more than 100 credit points from 100 level subjects, or, in the case of a combined degree, not more than 110 credit points from 100 level subjects, and
(d) at least 60 credit points from 300 level subjects or, in the case of intra-Faculty combined degrees, at least 80 credit points from 300 level subjects.

2. Where two approved Major Sequences are completed within the single degree, an overlap of not more than 20 credit points is permitted between Major Sequence subjects at 300 level.

3. In the case of intra-Faculty combined degrees, no overlap between Major Sequences subjects at any level is permitted.

Economics

Students completing the Honours program in Economics must complete 80 credit points comprising Economics IVA, IVB, IVc, IVd.

Requirements within these subjects include:
(a) completion of five topics including Macroeconomic Analysis and Microeconomic Analysis which are compulsory topics,
(b) completion of a 10,000 word supervised Research Essay on a subject of the student's choice,
(c) attendance at fortnightly Research Workshops and the making of two presentations during the year regarding Research Essay progress.

The following topics are generally offered, subject to staff availability:
- Macroeconomic Analysis (an advanced subject in principles),
- Microeconomic Analysis (an advanced subject in principles),
- History of Economic Thought, Labour Economics, Econometric Modelling,
- Industry Economics,
- Growth and Fluctuations,
- Issues in Australian Economic History,
- Issues in Developing Economies,
- Economics Planning and Project Evaluation,
- Applied Policy Analysis,
- Special Topic A (content varies depending on staff availability), Special Topic B (content varies depending on staff availability).

Students may complete one undergraduate subject as part of their five topic requirement, if it is not generally offered, subject to staff availability.

All programs must be finalised in consultation with the Head of Department. Students should see the Head of Department well in advance of their proposed application, to receive advice on relevant Departmental processes.

Bachelor of Economics (Honours)

Award Abbreviation: BEcon(Hons)

The Bachelor of Economics (Honours) is offered by the Faculty of Economics and Commerce. Honours is available in either Economics or Industrial Relations.

Credit
4. (1) A graduate of the University, or of another tertiary institution approved by the Faculty Board for this purpose, may be granted credit in subjects totalling not more than 120 credit points.

4. (2) An undergraduate may be granted credit in subjects totaling not more than 120 credit points, except that credit for additional subjects may be allowed in the case of an undergraduate transferring from another course in the University.

Enrolment
5. (1) A candidate in good academic standing may, upon successful completion of 80 credit points in the degree, enrol in up to 50 credit points in a subsequent semester without the permission of the Dean. Continued enrolment in 50 credit points per semester may not be permitted if a candidate fails to maintain good academic standing.

5. (2) For the purposes of Rule 5(1), a student shall be deemed to be in good academic standing if, at the conclusion of the semester of last enrolment in the course, the student was eligible to re-enrol without restrictions.
ECON411 Economics IVB 20 1, 2 C: ECON410
ECON412 Economics IVB 20 1, 2 C: ECON412
ECON413 Economics IVB 20 1, 2 C: ECON412

Industrial Relations
Full-time students enrol in IRHR420, IRHR421, IRHR422 and IRHR423 - two subjects (40 credit points) in each of two semesters.

Part-time students enrolling in Semester 1 enrol in IRHR420 and IRHR422 in their first two semesters and in IRHR421 and IRHR423 in their second semester. Those enrolling in Semester 2 enrol in IRHR422 and IRHR423 in their first two semesters and in IRHR421 and IRHR423 in their second two semesters.

Potential Honours students should consult with the Professor of Industrial Relations and Human Resource Management towards the end of the semester prior to that in which they intend to enrol. Students may choose their programs in accordance with the following guidelines and with the approval of the Professor of Industrial Relations and Human Resource Management. All students must complete:

(a) Foundations of Industrial Relations Theory
(b) Research Methods
(c) Either Macroeconomic Analysis or Microeconomic Analysis
(d) One more subject (with appropriate assessment) chosen from any 300, 400 or 500 level subject in Industrial Relations not previously completed.
(e) A Research thesis of approximately 20,000 words

Schedule
Interpretation
1. In this Schedule "discipline" means any branch of learning recognised as such by the Faculty Board.

Disciplines Offered
2. (1) A candidate may undertake the Honours Degree in one of the following disciplines:
   Economics, or
   Industrial Relations.

(2) The Department responsible for each discipline shall be:
   Economics - the Department of Economics
   Industrial Relations - the Department of Management.

Admission to Candidature
3. In order to be admitted to candidature an applicant shall:
   (a) Have completed the requirements for admission to the degree of Bachelor of Economics of the University or to any other degree approved by the Faculty Board; and
   (b) Have completed such other work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department responsible for the discipline.

Qualification for Admission to the Degree
4. To qualify for admission to the degree a candidate shall pass subjects totaling 80 credit points at the 400 level chosen from the list of Approved Subjects.

Classes of Honours
5. There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division I and Division II.

Time Requirements
6. Except with the permission of the Faculty Board, a candidate shall complete the course in not less than one year and not more than two years of study.

Bachelor of Economics/Bachelor of Laws

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/oua/tafecredit/index.htm

Program Structure
The Bachelor of Economics/Bachelor of Laws combined degree program is normally undertaken over five years of full-time study.

To meet the requirements of the Bachelor of Economics you must complete 60 credit points of core subjects at 100 level (listed in the table below), and a Major Sequence of study in Economics & Business Statistics, Economics Policy Analysis, Money, Banking, Trade & Finance. A Major Sequence of study consists of at least 30 credit points at 200 level and 40 credit points at 300 level. It may also require completion of an additional compulsory subject at 100 level.

Credit towards the Bachelor of Economics is granted for the 90 credit points of Bachelor of Laws subjects completed in the first three years, taking the total Bachelor of Economics points to 240 credit points. Thus, on successful completion of the combined degree program outlined above, you will be eligible to graduate with a Bachelor of Economics degree.

To meet the requirements of the Bachelor of Laws degree you must complete 250 credit points in the pattern indicated above. The first two years of the combined degree program comprise study in only UoN subjects.

For further information on degree requirements and subjects, refer to the course descriptions for the Bachelor of Economics and the Bachelor of Laws. Students in the combined degree program are advised to consult with the two Faculty Offices regarding their academic program.

Compulsory Economics Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON110</td>
<td>Microeconomics 1</td>
<td>10</td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics 1</td>
<td>10</td>
</tr>
<tr>
<td>MATH110</td>
<td>Introduction to Mathematics</td>
<td>10</td>
</tr>
<tr>
<td>ECON112</td>
<td>Introduction to Information Systems</td>
<td>10</td>
</tr>
<tr>
<td>ECON113</td>
<td>Basic Economics and Quantitative Analysis</td>
<td>10</td>
</tr>
</tbody>
</table>

Bachelor of Economics/Bachelor of Laws

Award Abbreviations: BEc, LLB Note: The Bachelor of Economics is under review. Changes may be made after publication.
Bachelor of Education (Central Coast Campus)

Award Abbreviation: Bed

The Bachelor of Education is offered by the Faculty of the Central Coast. The Bachelor of Education is a four-year course that integrates discipline studies and educational studies and prepares students for teaching in Early Childhood 0-5 year setting as well as in primary schools.

TAFE Credit

Credit transfer agreements with TAFE, NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/offices/tafecredit/index.html. For further details contact the Faculty Office.

Course Structure

Specialisation in Early Childhood

The Bachelor of Education consists of 320 credit points of study.

A recommended program for Early Childhood teaching is:

Year 1
In year 1, full-time students will undertake a total of 80 credit points of study.

Year 2
In year 2, full-time students will undertake a total of 80 credit points of study.

Year 3
In year 3, full-time students will undertake a total of 80 credit points of study.

Year 4
The final year of the Bachelor of Education course consists of 80 credit points of study including a ten week fieldwork experience in an early childhood 0-5 or K-2 school setting during which the student will fulfills the role of a beginning teacher.

Fieldwork

The fieldwork subjects must be successfully completed in the prescribed sequence.

Approved Studies for Early Childhood

Candidates may undertake to study equivalent discipline subjects at Callaghan Campus.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEDU100</td>
<td>Learners and Learning</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HEDU101</td>
<td>Foundations in Teaching</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SOC210C</td>
<td>Introduction to Sociology</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HEDU140</td>
<td>Foundations in Early Childhood Education</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HEDU110</td>
<td>Development in Context 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HEDU100</td>
<td>Music, Art and Humanity</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HEDU100</td>
<td>100 level elective chosen from non-education subjects offered by the Faculty of the Central Coast</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Year 2

HEDU100
SUG210C
HEDU202
HEDU242
HEDU206
HEDU241
HEDU240
HEDU220

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEDU100</td>
<td>Learners and Learning</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SOC210C</td>
<td>Australian Families</td>
<td>10</td>
<td>2</td>
<td>HEDU101</td>
</tr>
<tr>
<td>HEDU202</td>
<td>Development in Context 2</td>
<td>10</td>
<td>1</td>
<td>TBA</td>
</tr>
<tr>
<td>HEDU242</td>
<td>Emerging Literacy and Numeracy</td>
<td>10</td>
<td>2</td>
<td>HEDU140 as assumed or concurrent knowledge</td>
</tr>
<tr>
<td>HEDU206</td>
<td>Field Experience 2</td>
<td>10</td>
<td>2</td>
<td>HEDU140</td>
</tr>
<tr>
<td>HEDU241</td>
<td>Learning Through Creative Arts 0-5</td>
<td>10</td>
<td>1</td>
<td>HEDU140</td>
</tr>
<tr>
<td>HEDU240</td>
<td>Approaches to Early Childhood Curriculum</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HEDU220</td>
<td>Teaching Language and Literacy</td>
<td>10</td>
<td>1</td>
<td>LING111C and HEDU100 or HEDU101 as assumed or concurrent knowledge</td>
</tr>
</tbody>
</table>

Year 3

HEDU220
HEDU220

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEDU220</td>
<td>Teaching Language and Literacy</td>
<td>10</td>
<td>1</td>
<td>LING111C and HEDU100 or HEDU101 as assumed or concurrent knowledge</td>
</tr>
</tbody>
</table>

Schedule

Specialisations

1. The degree may be offered in such areas of specialisation as the Academic shall determine on the recommendation of the Faculty Board or as a general degree without specialisation.

Admission to Candidature

2. Applicants for admission to candidature shall, where applicable, nominate the specialisation in which they wish to pursue the course.

3. An applicant for admission to candidature in the general degree without specialisation shall have satisfied the requirements for admission to a teacher education qualification deemed by the Faculty Board to be equivalent to the Diploma in Teaching in the University.

Admission to Candidature in the Specialisation of Music

4. In cases where they meet the published selection criteria determined by the Faculty Board, applicants for admission to candidature in the specialisation of Music shall be required to undertake performing qualities assessment.

5. (1) The performing qualities assessment shall consist of:

(a) such written tests and interviews as the Faculty Board on the recommendation of the Head of the Department of Music shall require; and

(b) an audition in which the candidate must demonstrate musical expertise at a level satisfactory to the Faculty Board, on the recommendation of the Head of the Department of Music.

(2) Applicants who do not attend the University for performing qualities assessment, as invited will be deemed to have withdrawn their application unless a reason acceptable to the University Secretary and Registrar is provided.

6. Applicants shall be ranked in descending order of merit on the basis of:

(a) academic performance based on the selection criteria determined under clause 4(1); and

(b) academic performance and results determined by the Faculty Board arising from the performing qualities assessment.

7. The University Secretary and Registrar shall ensure that offers of admission are made in descending rank order to applicants ranked in accordance with the above criteria, such that the places available in the course each year are filled.

Admission to Candidature in the Specialisation of Performing Arts

8. In cases where they meet the published selection criteria determined by the Faculty Board, applicants for admission to candidature in the specialisation of Performing Arts shall be required to undertake performing qualities assessment.

9. (1) The performing qualities assessment shall consist of:

(a) such written tests and interviews as the Faculty Board on the recommendation of the relevant Heads of Department shall require; and

(b) an audition in which the candidate must demonstrate dance potential at a level satisfactory to the Faculty Board.

(2) Applicants who do not attend the University for performing qualities assessment, as invited will be deemed to have withdrawn their application unless a reason acceptable to the University Secretary and Registrar is provided.

10. Applicants shall be ranked in descending order of merit on the basis of:

(a) academic performance based on the selection criteria determined under clause 8(1); and
11. The University Secretary and Registrar shall ensure that offers of admission are made in descending rank order to applicants ranked under clause 9, such that the places available in the course each year are filled.

Qualification for the Degree

12. (1) To qualify for admission to the ordinary degree in any area of specialisation, a candidate shall:
   (a) pass a program of subjects including teaching experience approved by the Faculty Board totalling 320 credit points; and
   (b) satisfy the essential skills standards prescribed by the Faculty Board.

(2) The program may include subjects from two areas of specialisation in accordance with conditions prescribed by the Faculty Board.

Grading of Degrees

13. (1) The degree shall be conferred as an ordinary degree except that in

   (a) pass a program of subjects including teaching experience approved by the Faculty Board totalling 320 credit points; and
   (b) satisfy the essential skills standards prescribed by the Faculty Board.

(2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division 1 and Division 2.

Credit

14. (1) A candidate who has completed a Diploma in Teaching or a qualification deemed equivalent by the Faculty Board may be granted credit on such conditions as the Faculty Board may determine, for up to 240 credit points.

(2) Notwithstanding sub-clause (1), a candidate who has satisfied the requirements for the four year Diploma in Art Education or Diploma in Music Education at Newcastle College of Advanced Education prior to 1984, and who enrols in the Bachelor of Education course no later than 1993 may be granted credit for up to 296 credit points.

Withdrawal from Subjects

15. Other than in exceptional circumstances approved by the Dean, a candidate shall not be permitted to withdraw from the subject, Practicum or Internship later than the day before the commencement of the Practicum or Internship.

Absence

16. Applications for leave of absence must be made in writing to the Dean who may approve or not approve the application. In determining whether leave will be granted, the Dean may take into account the likely availability of relevant subjects in the year following the period of intended leave of absence.

# A candidate for the Bachelor of Education who has satisfied the requirements for the award of the Diploma of Teaching may be permitted by the Faculty Board to transfer candidates from the degree to the Diploma of Teaching.

# The following areas of specialisation have been approved by the Academic Senate:

   (a) Primary;
   (b) Early Childhood;
   (c) Secondary, which shall include:
      - Art, Asian Studies, Design and Technology, English, History, Home Economics, Industrial Arts, Technology, Languages, Mathematics, Music, Performing Arts, Physical and Health Education, Science and Social Sciences, which may be offered singly or in combination;
   (d) Technical and Further Education.

Candidates pursuing the specialisation of Primary, Early Childhood and Secondary education may be permitted to undertake a specialisation in Special Education in the final year of the B Ed program.

Bachelor of Engineering (Chemical)

Award Abbreviation: BE

Chemical engineering focuses upon the development of processes which change raw materials into useful consumer products. As such, the course provides students with the skills needed to research and design equipment and manufacturing processes, and also to ensure their sustainability through the best use of energy and materials.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/ocu/pubs/tafecredit/index.htm

Course Structure

The chemical engineering course is a 4-year program comprising 320 credit points in which students complete core subjects in chemistry and mathematics with options between biology and physics. Other important areas of study include unit operations such as distillation; absorption and extraction; environmental control; industrial safety; and management. Throughout the course, theoretical studies are complemented by practical laboratory and field exercises. Students will have the opportunity to undertake an industrial related project in their third year of study and must also complete 12 weeks of industrial experience throughout the course.

Students may enroll in subjects from the various elective groups in order to undertake one of the elective streams in: mineral processing, food and biological processing, or environmental protection, or may select subjects of their choice if they prefer a more general chemical engineering course. Not all elective subjects will be offered in any one year. The subjects to be offered will be displayed on the Departmental Notice Board in September of the previous year. Other electives are available, but students must first consult with the Head of Department. These electives, which are not expected to be offered in 2001, are shown in the Reserve Electives List.

Bachelor of Engineering (Chemical)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>Credit</th>
<th>Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>Chemistry 101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Mathematics 111*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 112</td>
<td>Mathematics 112*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 101</td>
<td>Introduction to Process Industries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 102</td>
<td>Chemical Engineering Principles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 103</td>
<td>Computing and Design Laboratory</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Chemistry 102</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td>Introductory Physics for Engineers and Scientists*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 101</td>
<td>Introduction to Biology 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Mathematics 111</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 112</td>
<td>Physical Chemistry Principles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 104</td>
<td>Process Calculations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 105</td>
<td>Energy Studies</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Students beginning in 2001 or later who take BIOL 101 must also take BIOL 102 later in their course.

Year 2 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>Credit</th>
<th>Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 201</td>
<td>Heat Transfer and Energy Systems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 202</td>
<td>Chemical Engineering Laboratory and Computations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 201</td>
<td>Multivariable Calculus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 202</td>
<td>Ordinary Differential Equations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 203</td>
<td>Process Calculations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 204</td>
<td>Transfer Processes Laboratory</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 205</td>
<td>Partial Differential Equations and Computations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 206</td>
<td>Transfer Processes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 207</td>
<td>Science Elective 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 208</td>
<td>Process Calculations</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In 2001 only, 200 level students may choose BIOL 101 Introduction to Biology 1

Bachelor of Engineering (Chemical)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>Credit</th>
<th>Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>Food Product Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CHEE421 Environmental Legislation and Planning 10 1
CHEE451 Particle Processing 10 1
*Note that overlap exists between CHEE390 and CHEE394. So if one of these is selected you cannot take the other later in the course (eg. in the final year general elective).

Science Elective 2 (choose 10 credit points)
BIO209* Microbial Biology 10 2
CHEE421 Physical Chemistry 10 2
**Students who have previously taken BIOL101 must take BIO209 except students who commenced their course in 2000. Students who commenced their course in 2000 and who wish to take BIO209 must have successfully completed BIO101.

Year 3 (60 credit points)
CHEE374 Separation Processes and Particle Technology 10 1
CHEE332 Thermodynamics 10 1
CHEE341 Project Management 1 10 1
PHIL391 Technology and Human Values 10 1
CHEE342 Safety and Risk Management 10 2
CHEE375 Modelling and Separation Processes 10 2
Process Elective 2 10 2
CHEE384 Process Engineering Laboratory 10 2
Process Elective 2 (10 credit points)
CHEE390 Biochemical Engineering 10 2
CHEE369 Environmental Process Technology 10 2
CHEE392 Coal and Mineral Processing 10 2

Year 4 (80 credit points)
CHEE421 Process Control and Instrumentation 10 2
CHEE422 Kinetics and Reaction Engineering 10 2
CHEE426 General Elective at the 200 level or higher, 10 2
Advanced Transport Phenomena CHEE398 is recommended when it is offered:
CHEE451 Project Management and Innovation in Process Industries 10 Full Year
CHEE495 Design Project 20 Full Year
CHEE497 Research Project 20 Full Year

Table 1 provides a list of the existing Scp subjects have been combined in order to produce 10 cp subjects.

<table>
<thead>
<tr>
<th>Existing Scp subjects</th>
<th>Equivalent 10 cp subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE111 Introduction to Process Industr</td>
<td>CHEE115 Chemical Engineering Principles</td>
</tr>
<tr>
<td>CHEE114 Introduction to Chemical Engineering</td>
<td>CHEE182 Computing &amp; Design Laboratory</td>
</tr>
<tr>
<td>CHEE181 Applications Laboratory</td>
<td>CHEE270 Transfer Processes</td>
</tr>
<tr>
<td>COMP107 Introduction to C++ &amp; Numerical Methods</td>
<td></td>
</tr>
<tr>
<td>CHEE278 Fluid Mechanics</td>
<td>CHEE267 Mass Transfer</td>
</tr>
<tr>
<td>CHEE281 Chemical Engineering Laboratory</td>
<td>CHEE384 Process Engineering Laboratory</td>
</tr>
<tr>
<td>CHEE242 Chemical Engineering Computations (Semester 1 portion)</td>
<td>CHEE463 Environmental Process Technology</td>
</tr>
<tr>
<td>CHEE322 Separation Processes 1</td>
<td>CHEE369 Environmental Process Technology</td>
</tr>
<tr>
<td>CHEE374 Separation Processes &amp; Particle Technology</td>
<td>CHEE392 Coal and Mineral Processing</td>
</tr>
<tr>
<td>CHEE346 Food Processing</td>
<td>CHEE450 Project Management 2</td>
</tr>
<tr>
<td>CHEE290 Food Product Engineering</td>
<td>CHEE451 Project Management and Innovation in Process Industries</td>
</tr>
<tr>
<td>CHEE352 Transport Phenomena</td>
<td>CHEE452 Advanced Transport Phenomena</td>
</tr>
<tr>
<td>CHEE358 Process Engineering Laboratory 2</td>
<td>CHEE453 Advanced Transport Phenomena</td>
</tr>
<tr>
<td>CHEE365 Environmental Process Technology 1</td>
<td>CHEE454 Project Management and Innovation in Process Industries</td>
</tr>
<tr>
<td>CHEE369 Environmental Process Technology 2</td>
<td>CHEE455 Project Management and Innovation in Process Industries</td>
</tr>
<tr>
<td>CHEE420 Advanced Design Project 10</td>
<td>CHEE422 Advanced Research 10 Full Year</td>
</tr>
<tr>
<td>CHEE421 Process Control and Instrumentation 10</td>
<td>CHEE422 Advanced Research 10 Full Year</td>
</tr>
<tr>
<td>CHEE422 Kinetics and Reaction Engineering 10</td>
<td>CHEE426 General Elective at the 200 level or higher, 10 2</td>
</tr>
</tbody>
</table>

CHEE375 Modelling and Separation Processes 10 2
CHEE451 Project Management and Innovation in Process Industries 10 2

Table 2 provides a summary of expanded subjects.

<table>
<thead>
<tr>
<th>Previous 5 cp subject</th>
<th>New 10 cp subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE265 Heat Transfer</td>
<td>CHEE269 Heat Transfer &amp; Energy Systems</td>
</tr>
<tr>
<td>CHEE281 Chemical Engineering Laboratory</td>
<td>CHEE283 Chemical Engineering Laboratory &amp; Computations (Semester 1 portion)</td>
</tr>
<tr>
<td>CHEE242 Chemical Engineering Computations</td>
<td>CHEE322 Separation Processes 1</td>
</tr>
<tr>
<td>CHEE346 Food Processing</td>
<td>CHEE374 Separation Processes &amp; Particle Technology</td>
</tr>
<tr>
<td>CHEE352 Transport Phenomena</td>
<td>CHEE250 Food Product Engineering</td>
</tr>
<tr>
<td>CHEE450 Project Management 2</td>
<td>CHEE392 Coal and Mineral Processing</td>
</tr>
<tr>
<td>CHEE451 Project Management and Innovation in Process Industries</td>
<td>CHEE452 Advanced Transport Phenomena</td>
</tr>
</tbody>
</table>

Summary of changes involving CHEE281, CHEE242, MATH202, CHEE283, MATH247
Please refer to the transition table below. If you need to enrol in old subjects such as CHEE281, CHEE242, MATH202, then you will need to attend the appropriate lectures of the new subjects CHEE283, MATH247.

Table 3 Transition Table

<table>
<thead>
<tr>
<th>Subjects Completed</th>
<th>Subjects Not Completed</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE281, CHEE242, MATH202</td>
<td>Do not take CHEE283 or MATH247 unless stated otherwise</td>
<td></td>
</tr>
<tr>
<td>CHEE281, CHEE242, MATH202</td>
<td>CHEE283, MATH247</td>
<td>Enrol in MATH202</td>
</tr>
<tr>
<td>CHEE281, MATH202</td>
<td>CHEE283, MATH247</td>
<td>Enrol in CHEE242</td>
</tr>
<tr>
<td>CHEE281, MATH202</td>
<td>CHEE283, MATH247</td>
<td>Enrol in CHEE242</td>
</tr>
</tbody>
</table>
Changes involving subjects offered by the Department of Mathematics are detailed in Table 4.

Table 4: A summary of new subjects which involve other departments

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>New 10 cp subject</th>
<th>Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE242</td>
<td>Particle Processing</td>
<td>mineral processing</td>
<td></td>
</tr>
<tr>
<td>CHEE293</td>
<td>Sustainability for Engineers and Scientists</td>
<td>environmental</td>
<td></td>
</tr>
<tr>
<td>CHEE390</td>
<td>Biochemical Engineering</td>
<td>biological processing</td>
<td></td>
</tr>
</tbody>
</table>

Table 5: Provides a summary of new subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
<th>Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE294</td>
<td>Particle Processing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH202</td>
<td>Partial Differential Equations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEE242</td>
<td>Chemical Engineering Computations (2nd part)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Environmental Process Specialisations

1. The degree may be offered in one of the following specialisations:
   - Civil Engineering
   - Computer Engineering
   - Electrical Engineering
   - Environmental Engineering
   - Industrial Engineering
   - Mechanical Engineering
   - Mechatronics
   - Software Engineering
   - Telecommunications Engineering

Qualification for the Award

3. (1) To qualify for admission to the degree a candidate shall:
   (a) complete the requirements of the course program for that specialisation; and
   (b) complete the industrial experience requirements as determined by the Faculty Board;
   to the satisfaction of the Faculty Board.

   (2) The course program for each specialisation shall consist of subjects totalling not less than 320 credit points approved by the Faculty Board on the recommendation of the Head of the designated department and include:
   (a) at least 80 credit points from 100 level subjects;
   (b) at least 80 credit points from 200 level subjects; and
   (c) at least 80 credit points from 300 or 400 level subjects of which at least 40 credit points must be from 400 level subjects.

Grading of the Degree

4. (1) The degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.

   (2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division 1 and Division 2.

Enrolment

5. A candidate may not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board for the particular specialisation.

Credit

6. Credit may be granted for up to 160 credit points except that a candidate may be granted such credit as the Faculty Board determines for subjects completed in the University which have not already been counted towards an award.

Transfer Between Specialisations

7. The Faculty Board may make conditions with respect to the transfer of candidature from one specialisation in the degree to another.

Additional Specialisations

8. (1) A person who has satisfied the requirements for admission to the degree in one specialisation may be admitted to candidature in any other specialisation on such conditions as the Faculty Board may prescribe. Upon completing the requirements for admission to the degree in that other specialisation, another Bachelor of Engineering degree will be conferred.

   (2) A candidate may complete the requirements of one specialisation in conjunction with another specialisation by completing a combined degree program approved by the Academic Senate on the advice of the Faculty Board. To qualify for admission to the two Engineering degrees a candidate shall satisfy the requirements for both degrees, except as may be otherwise provided.

Schedule

Specialisations

1. The degree may be offered in one of the following specialisations:
   - Civil Engineering
   - Computer Engineering
   - Electrical Engineering
   - Environmental Engineering
   - Industrial Engineering
   - Mechanical Engineering
   - Mechatronics
   - Software Engineering
   - Telecommunications Engineering

2. For the purposes of this Schedule, the designated Department with respect to each specialisation shall be:
   - Department of Chemical Engineering
   - Department of Civil, Surveying and Environmental Engineering
   - Department of Computer Science and Software Engineering
   - Department of Electrical and Computer Engineering
   - Department of Mechanical Engineering

3. (1) To qualify for admission to the degree a candidate shall:
   (a) complete the requirements of the course program for that specialisation; and
   (b) complete the industrial experience requirements as determined by the Faculty Board;
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Additional Specialisations

8. (1) A person who has satisfied the requirements for admission to the degree in one specialisation may be admitted to candidature in any other specialisation on such conditions as the Faculty Board may prescribe. Upon completing the requirements for admission to the degree in that other specialisation, another Bachelor of Engineering degree will be conferred.

   (2) A candidate may complete the requirements of one specialisation in conjunction with another specialisation by completing a combined degree program approved by the Academic Senate on the advice of the Faculty Board. To qualify for admission to the two Engineering degrees a candidate shall satisfy the requirements for both degrees, except as may be otherwise provided.
The Bachelor of Engineering (Chemical)/Bachelor of Arts combined degree program is offered by the Faculty of Engineering and the Faculty of Arts and Social Science. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, the combined degree program offers students greater breadth of learning, enhancing the academic and professional qualities gained in each degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/service-centre/tafe/tafecredit/index.htm

**Program Structure**

The chemical engineering and arts combined degree program comprises 400 credit points completed over five years of study. Note that it may not be possible to complete the combined degree program within five years, if selection of electives involves timetable clashes, or where elective subjects are not offered in a particular year.

To meet the current requirements of the engineering degree you must complete the program of study below. Within this program students have the opportunity to undertake an industry-related project in the final year and complete twelve weeks of industrial experience throughout the course.

To meet the current requirements for the Bachelor of Arts component you must complete a minimum of 110 credit points of Arts Group A subjects including a Major Sequence of study to complete a Major Sequence of study you must complete at least 30 credit points at 300 level in one area of study chosen from Group A disciplines. Major areas of study points at 200 level and 300 credit points at 300 level in one area of study chosen from Group A disciplines.

The following program has been agreed between the Faculty of Engineering and the Faculty of Arts and Social Science based on 2001 course requirements. It may be varied as a result of changes to course requirements, or by the agreement of the Deans of the faculties concerned.

Chemical engineering students wishing to undertake a program of study combining BE (Chemical) and BArts may do so by applying to transfer to the generic Engineering Combined Degree through the Universities Admission Centre (UAC). Applications must be lodged with UAC by the due date in September in the year preceding the year in which they propose to seek admission, e.g. in 2001 for 2002.

Students currently enrolled in the BE (Chemical), who have completed at least 40 credit points, who have a WAM of 70 or more and apply to transfer to the combined degree will receive a firm offer of a place in the combined degree. For further information contact the Course Officer - Chemical Engineering in the Faculty office or Head of Department.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Officers regarding their academic program.

For information on transition arrangements due to changes to the Chemical Engineering program, students should consult the BE(Chemical)/BArts course listing.
Course Structure

The chemical engineering and business combined program comprises 400 credit points. To meet the current requirements of the engineering degree, you must complete the program of study below. Students must undertake 12 weeks of industrial experience throughout the course and have the opportunity to complete an industrially related project in their final year of study.

To meet the current requirements for the Bachelor of Business degree, students must complete the Core Subjects (listed in the table below) and the Management Major sequence of subjects comprising 30 credit points at 200 level and 45 credit points at the 300 level. For details of subjects, refer to the list below and to the list of Approved Subjects in the Bachelor of Business entry.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Economics and Commerce. It is based on 201 course requirements. It may be varied as a result of future changes to course requirements, or by agreement of the Deans of both faculties concerned.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program for information on transition arrangements due to changes to the Chemical Engineering program, students should consult the B(Chemical) course listing.

Subject Code | Subject Description | Credits | Points | Semester
---|---|---|---|---
CHEM101 | Chemistry 101 | 10 | 1 | Year 1 (80 credit points)
MATH111 | Mathematics 111* | 10 | 1 | Year 1 (80 credit points)
CHEE113 | Introduction to Process Industries | 10 | 1 | Year 1 (80 credit points)
PHYS111 | Introductory Physics for Engineers and Scientists** | 10 | 1 | Year 1 (80 credit points)
MATH112 | Mathematics 112* | 10 | 2 | Year 2 (80 credit points)
CHEE115 | Chemical Engineering Principles | 10 | 2 | Year 2 (80 credit points)
CHEE182 | Computing and Design Laboratory | 10 | 2 | Year 2 (80 credit points)
IBHR111 | Introduction to Management and Organisational Behaviour | 10 | 2 | Year 2 (80 credit points)
* MATH121 and MATH122 may replace MATH111 and MATH112
** PHYS113 may replace PHYS111

** Core subjects are listed in the table above.

Bachelor of Engineering (Chemical)/Bachelor of Mathematics

Award Abbreviations: BE, BMath

The Bachelor of Engineering (Chemical)/Bachelor of Mathematics combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oua/aua/tafecredit/index.htm

Program Structure

The Bachelor of Engineering (Chemical)/Bachelor of Mathematics combined degree program comprises subjects with a total value of 400 credit points. To meet the current requirements of this combined degree program students must complete the program of study below. Within this program, students have the opportunity to select electives according to their individual areas of interest. Students must complete twelve weeks of industry experience throughout the course. They will have the opportunity to undertake an industrially related engineering project in their final year of study.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics on the basis of 201 course requirements. It may be varied as a result of future changes in course requirements, or by the agreement of the Deans of both faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program for information on transition arrangements due to changes to the Chemical Engineering program, students should consult the B(Chemical) course listing.
Bachelor of Engineering (Chemical)/Bachelor of Science - Chemistry Major

Award Abbreviations: BE, BSc

The Bachelor of Engineering (Chemical)/Bachelor of Science - Chemistry Major combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

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Course Structure

The Bachelor of Engineering (Chemical)/Bachelor of Science - Chemistry Major combined degree program comprises subjects with a total value of 400 credit points. To meet the current requirements of this combined degree program students must complete the program of study set out below. Students must also complete twelve weeks of industrial engineering experience throughout the course. They have the opportunity to undertake an industry-related engineering project in their final year of study.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics based on 2001 course requirements. It may be varied with future changes to course requirements, or by agreement of the Dean of both faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program. For information on transition arrangements due to changes to the Chemical Engineering program, students should consult the BE(Chemical) course listing.

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<td>CHEM101</td>
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<td>MATH121</td>
<td>Advanced Mathematics 121</td>
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<td>Introductory Chemistry II</td>
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Year 2 (80 credit points)

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<tr>
<td>CHEE269</td>
<td>Heat Transfer and Energy Systems</td>
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<td>CHEE283</td>
<td>Chemical Engineering Laboratory and Computations</td>
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<td>MATH201</td>
<td>Multivariable Calculus</td>
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<td>MATH203</td>
<td>Ordinary Differential Equations 1</td>
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<td>MATH208</td>
<td>Linear Algebra</td>
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<td>MATH220</td>
<td>Analytic Methods 1</td>
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<td>CHEE270</td>
<td>Transfer Processes</td>
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<td>Thermodynamics</td>
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<td>CHEE374</td>
<td>Separation Processes and Particle Technology</td>
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<td>MATH222</td>
<td>Algebraic Methods 1</td>
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<td>MATH247</td>
<td>Partial Differential Equations and Computations</td>
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<td>MATH401</td>
<td>Bachelor of Mathematics 100, 200 or 300 level subjects</td>
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<td>MATH402</td>
<td>Bachelor of Mathematics 300 level subject</td>
<td>10</td>
<td>2</td>
<td>2</td>
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</tbody>
</table>

Year 4 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>Credit</th>
<th>Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE431</td>
<td>Process Control and Instrumentation</td>
<td>10</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CHEE432</td>
<td>Kinetics and Reaction Engineering</td>
<td>10</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CHEE436</td>
<td>Chemical Engineering Laboratory and Computations</td>
<td>10</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CHEE451</td>
<td>Project Management and Admission to Project Industries</td>
<td>10</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CHEE495</td>
<td>Design Project</td>
<td>20</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CHEE497</td>
<td>Research Project</td>
<td>20</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

For details of approved Mathematics subjects, refer to the course entry for Bachelor of Mathematics.

For details of transitional arrangements, refer to the course entry for Bachelor of Engineering (Chemical).
Stage 2

CIVL112  Mechanics and Materials  10  1
PHYS111  Introductory Physics for Engineers and Scientists 1**  10  1
CIVL141  Environmental Fluid Mechanics  10  2
MECH108  Engineering Computing 1  10  2

* PHYS113 may replace PHYS111. Students with good academic standing in HSC Physics may substitute CHEM101 for PHYS113 with permission from the Head of Department, Civil, Surveying and Environmental Engineering.

After completion of the above program attendance will be required at various times during the day depending upon the subjects in which the candidate is enrolled and the requirements of the timetable. Full-time study is recommended after Stage 2.

Transition Arrangements - Full-Time and Part-Time

The Course Program has been amended with effect from the commencement of the 2001 academic year. All students enrolled in the course or any combined degree program of which it forms part, are required to meet the requirements of the new Course Program.

For the purposes of transition to the new Course Program, the following transition program will apply for students who have completed years 1, 2, 3 of the program in the years 2000...

Transition program for students entering Years 2, 3 and 4 in 2001

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
<th>Semester 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2</td>
<td>CIVL228</td>
<td>MATH201/203</td>
<td>CIVL213</td>
<td>PHIL391</td>
</tr>
<tr>
<td></td>
<td>CIVL231</td>
<td>CIVL234</td>
<td>CIVL245</td>
<td>CIVL205</td>
</tr>
<tr>
<td>Year 3</td>
<td>CIVL333</td>
<td>CIVL334</td>
<td>CIVL335</td>
<td>CIVL336</td>
</tr>
<tr>
<td></td>
<td>CIVL337</td>
<td>CIVL338</td>
<td>CIVL339</td>
<td>CIVL340</td>
</tr>
<tr>
<td>Year 4</td>
<td>CIVL420</td>
<td>CIVL421</td>
<td>CIVL422</td>
<td>CIVL423</td>
</tr>
<tr>
<td></td>
<td>CIVL424</td>
<td>CIVL425</td>
<td>CIVL426</td>
<td>CIVL427</td>
</tr>
</tbody>
</table>

Transition program for students entering Years 3 and 4 in 2002

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL233</td>
<td>CIVL318</td>
<td>CIVL328</td>
<td></td>
</tr>
<tr>
<td>CIVL331</td>
<td>CIVL332</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIVL333</td>
<td>CIVL334</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIVL335</td>
<td>CIVL336</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Transition program for students entering Year 4 in 2003

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL420</td>
<td>CIVL421</td>
<td></td>
</tr>
<tr>
<td>CIVL424</td>
<td>CIVL425</td>
<td></td>
</tr>
</tbody>
</table>

In order to provide for students on non-standard programs and for exceptional circumstances in transition, the Dean may determine the transition arrangements to be followed.

Approved Subjects - Department of Civil, Surveying and Environmental Engineering

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Prior Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL111</td>
<td>Mechanics and Materials</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CIVL112</td>
<td>Mechanics and Materials</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CIVL132</td>
<td>Environmental Fluid Mechanics</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CIVL191</td>
<td>Industrial Experience</td>
<td>5</td>
<td>1, 2, or full year, Part-time Enrolment</td>
<td></td>
</tr>
<tr>
<td>CIVL192</td>
<td>Industrial Experience</td>
<td>5</td>
<td>1, 2, or full year, Part-time Enrolment</td>
<td></td>
</tr>
<tr>
<td>CIVL193</td>
<td>Industrial Experience</td>
<td>5</td>
<td>1, 2, or full year, Part-time Enrolment</td>
<td></td>
</tr>
<tr>
<td>CIVL205</td>
<td>Engineering Computations and Probability</td>
<td>10</td>
<td>2</td>
<td>MECH108</td>
</tr>
<tr>
<td>CIVL213</td>
<td>Theory of Structures 1</td>
<td>10</td>
<td>1</td>
<td>CIVL112</td>
</tr>
</tbody>
</table>

List of Courses

- MATH121 and MATH122 may replace MATH111 and MATH112.
- PHYS113 may replace PHYS111. Students with good academic standing in HSC Physics may substitute CHEM101 for PHYS113 with permission from the Head of Department, Civil, Surveying and Environmental Engineering.

After completion of the above program attendance will be required at various times during the day depending upon the subjects in which the candidate is enrolled and the requirements of the timetable. Full-time study is recommended after Stage 2.

Transition Arrangements - Full-Time and Part-Time

The Course Program has been amended with effect from the commencement of the 2001 academic year. All students enrolled in the course or any combined degree program of which it forms part, are required to meet the requirements of the new Course Program.

For the purposes of transition to the new Course Program, the following transition program will apply for students who have completed years 1, 2, 3 of the program in the years 2000...

Transition program for students entering Years 2, 3 and 4 in 2001

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
<th>Semester 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL228</td>
<td>MATH201/203</td>
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<td>PHIL391</td>
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</tr>
<tr>
<td>CIVL231</td>
<td>CIVL234</td>
<td>CIVL245</td>
<td>CIVL205</td>
<td></td>
</tr>
<tr>
<td>Year 3</td>
<td>CIVL333</td>
<td>CIVL334</td>
<td>CIVL335</td>
<td>CIVL336</td>
</tr>
<tr>
<td></td>
<td>CIVL337</td>
<td>CIVL338</td>
<td>CIVL339</td>
<td>CIVL340</td>
</tr>
<tr>
<td>Year 4</td>
<td>CIVL420</td>
<td>CIVL421</td>
<td>CIVL422</td>
<td>CIVL423</td>
</tr>
<tr>
<td></td>
<td>CIVL424</td>
<td>CIVL425</td>
<td>CIVL426</td>
<td>CIVL427</td>
</tr>
</tbody>
</table>

Transition program for students entering Years 3 and 4 in 2002

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL233</td>
<td>CIVL318</td>
<td>CIVL328</td>
<td></td>
</tr>
<tr>
<td>CIVL331</td>
<td>CIVL332</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIVL333</td>
<td>CIVL334</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIVL335</td>
<td>CIVL336</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Transition program for students entering Year 4 in 2003

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL420</td>
<td>CIVL421</td>
<td></td>
</tr>
<tr>
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<td>CIVL425</td>
<td></td>
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Approved Subjects - Department of Civil, Surveying and Environmental Engineering

<table>
<thead>
<tr>
<th>Subject Code</th>
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<th>Prior Assumed Knowledge</th>
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<tbody>
<tr>
<td>CIVL111</td>
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<td>1</td>
<td></td>
</tr>
<tr>
<td>CIVL112</td>
<td>Mechanics and Materials</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CIVL132</td>
<td>Environmental Fluid Mechanics</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CIVL191</td>
<td>Industrial Experience</td>
<td>5</td>
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<td>Industrial Experience</td>
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<td></td>
</tr>
<tr>
<td>CIVL193</td>
<td>Industrial Experience</td>
<td>5</td>
<td>1, 2, or full year, Part-time Enrolment</td>
<td></td>
</tr>
<tr>
<td>CIVL205</td>
<td>Engineering Computations and Probability</td>
<td>10</td>
<td>2</td>
<td>MECH108</td>
</tr>
<tr>
<td>CIVL213</td>
<td>Theory of Structures 1</td>
<td>10</td>
<td>1</td>
<td>CIVL112</td>
</tr>
</tbody>
</table>
Qualification for the Award

3. To qualify for admission to the degree a candidate shall:
   (a) complete the requirements of the course program for that specialisation; and
   (b) complete the industrial experience requirements as determined by the Faculty Board;

to the satisfaction of the Faculty Board.

(2) The course program for each specialisation shall consist of subjects totalling not less than 320 credit points approved by the Faculty Board on the recommendation of the Head of the designated department and include:
   (a) at least 80 credit points from 100 level subjects;
   (b) at least 60 credit points from 200 level subjects; and
   (c) at least 100 credit points from 300 or 400 level subjects of which at least 40 credit points must be from 400 level subjects.

Grading of the Degree

4. (1) The degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.

(2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division I and Division II.

Schedule

Specialisations

1. The degree may be offered in one of the following specialisations:
   - Civil Engineering;
   - Computer Engineering;
   - Electrical Engineering;
   - Environmental Engineering;
   - Industrial Engineering;
   - Mechanical Engineering;
   - Mechatronics;
   - Software Engineering;
   - Telecommunications Engineering.

2. For the purposes of this Schedule, the designated Department with respect to each specialisation shall be:
   - Department of Chemical Engineering;
   - Chemical Engineering;
   - Department of Civil, Surveying and Environmental Engineering;
   - Civil Engineering and Environmental Engineering;
   - Department of Computer Science and Software Engineering;
   - Software Engineering;
   - Department of Electrical and Computer Engineering;
   - Computer Engineering;
   - Electrical Engineering; and
   - Telecommunications Engineering;
   - Department of Mechanical Engineering;
   - Mechanical Engineering; and
   - Mechatronics.

3. (1) To qualify for admission to the degree a candidate shall:
   (a) complete the requirements of the course program for that specialisation; and
   (b) complete the industrial experience requirements as determined by the Faculty Board;

to the satisfaction of the Faculty Board.

(2) The course program for each specialisation shall consist of subjects totalling not less than 320 credit points approved by the Faculty Board on the recommendation of the Head of the designated department and include:
   (a) at least 80 credit points from 100 level subjects;
   (b) at least 60 credit points from 200 level subjects; and
   (c) at least 100 credit points from 300 or 400 level subjects of which at least 40 credit points must be from 400 level subjects.

Bachelor of Engineering (Civil)/Bachelor of Arts

Award Abbreviations: BE, BA for continuing students only.

The Bachelor of Engineering (Civil)/Bachelor of Arts combined degree program is offered by the Faculty of Engineering and the Faculty of Arts and Social Science. This combined program provides students with an opportunity to undertake concurrent study and complete two awards. In general, this combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/tau/tafed/tafed/index.htm

Program Structure

The civil engineering and arts combined degree program comprises 410 credit points. To meet the current requirements of the engineering degree you must complete the program of study below. Within this program students must complete 12 weeks of Industrial Experience, and have the opportunity to undertake an industry related project in the final year.

To meet the current requirements for the Bachelor of Arts component students must complete a minimum of 100 credit points of Arts Group A subjects including a Major Sequence of study. To complete a Major Sequence of study you must complete at least 30 credit points at 200 level and 40 credit points at 300 level in one area of study chosen from Group A disciplines. Major areas of study available are: Aboriginal Studies, Classics, Classical Civilisation, Cultural Studies, Greek, Latin, Sanskrit, Drama, Economics, English, Film Studies, Gender Studies, Geography, History, Linguistics, Leisure and Tourism Studies, Mathematics, Modern Languages, Philosophy, Politics, Psychology, Religious Studies, Sociology, and Anthropology. In choosing your Major Sequence of study you are advised to check any assumed knowledge at 100 level for your preferred subject. For details, refer to the list of Approved Subjects in the Bachelor of Arts entry.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Arts and Social Science based on your 2001 course requirements. It may be varied as a result of future changes to course requirements, or by the agreement of the Deans of both faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME112</td>
<td>Mechanics and Materials</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH111</td>
<td>Mathematics 111*</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SUR111</td>
<td>Surveying 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>GE2001</td>
<td>Environmental Fluid Mechanics</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112*</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MECH1101</td>
<td>Engineering Computing 1</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>100 level Arts Group A subjects</td>
<td>20</td>
<td>1, 2</td>
<td></td>
</tr>
</tbody>
</table>
The combined Bachelor of Engineering (Civil)/Bachelor of Business combined degree program is offered by the Faculty of Engineering and the Faculty of Economics and Commerce. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, this program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

**TAFE Credit**
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/ousr/aau/tafecred/index.htm

**Course Structure**
The civil engineering and business combined program comprises 410 credit points.

In the civil engineering degree students complete subjects from the areas of structural, geotechnical and water resources engineering. Throughout the course, theoretical studies are complemented by practical laboratory and field exercises. To meet the requirements of the degree students must complete the program of study below. In addition students must complete 12 weeks of industrial experience.

To satisfy the Bachelor of Business component of the degree, students must complete the program below. This program includes all the core subjects in the business degree and the Marketing and Management major sequence. A major sequence of study consists of at least 30 credit points at 200 level and 40 credit points at 300 level in a prescribed subject area. For details of subjects, refer to the Bachelor of Business entry.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Economics and Commerce based on the year 2001 course requirements. It may be varied as a result of future changes to course requirements, or by the agreement of the Deans of both faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty offices regarding their academic program.

### Subject Code | Subject Name | Credit Points | Semester
---|---|---|---
CIVL101 | Theory of Structures 1 | 10 | 1
CIVL102 | Geomechanics 1 | 10 | 1
CIVL103 | Multivariable Calculus | 5 | 1
CIVL104 | Ordinary Differential Equations 1 | 5 | 1
PHYS111 | Introductory Physics for Engineers and Scientists ** | 10 | 1
CIVL205 | Engineering Computations and Probability | 10 | 2
CIVL204 | Civil Engineering Materials | 10 | 2
CIVL203 | Fluid Mechanics | 10 | 2
CIVL301 | 100 level Arts Group A subjects | 10 | 1,2
200 level Arts Group A subjects | 10 | 1,2

**Year 3 (80 credit points)**
CIVL318 | Theory of Structures 2 | 10 | 1
CIVL317 | Steel Design | 10 | 1
CIVL328 | Geotechnics 2 | 10 | 1
CIVL326 | Reinforced Concrete Design | 10 | 2
SURV112 | Surveying 2 | 10 | 2
CIVL333 | Stress and Finite Element Analysis | 20 | 2
200 level Arts Group A subjects | 20 | 1,2

**Year 4 (80 credit points)**
CIVL333 | Hydrology | 10 | 1
CIVL411 | Theory of Structures 3 | 10 | 1
PHEL391 | Technology and Human Values | 10 | 1
CIVL434 | Water Engineering | 10 | 2
CIVL221 | Transportation Engineering | 10 | 2
CIVL538 | Project and Asset Management | 20 | 1,2
300 level Arts Group A subjects | 20 | 1,2

**Total of 410 Credit Points**
*Note that there are special transition arrangements for this subject, it will not be offered in 2001.

**Transition Arrangements - Full-Time and Part-Time**
The Course Program has been amended with effect from the commencement of the 2001 academic year. Students affected by changes to the Course Program are advised to consult with their course coordinator.
Transition Arrangements - Full-Time and Part-Time
The Course Program has been amended with effect from the commencement of the 2001 academic year. Students affected by changes to the Course Program are advised to consult with their course coordinator.

Bachelor of Engineering (Civil)/Bachelor of Engineering (Environmental)
Award Abbreviation: BE,BE

The Bachelor of Engineering (Civil)/Bachelor of Engineering (Environmental) combined degree program is offered by the Faculty of Engineering. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, this combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained from separate degrees. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit
Credit transfer arrangements with TAFE NSW and other education providers are under continuous negotiation. For more information, refer to the TAFE Credit page on the University’s website.

Program Structure
The combined civil and environmental engineering program comprises 420 credit points. To meet the current requirements of the combined degree, students must complete the program of study below. Students must also complete twelve weeks of industrial experience throughout the course and have the opportunity to undertake an industrial related project in their final year of study.

The following program of study is offered by the Faculty of Engineering and is based on year 2001 course requirements. It may be varied as a result of future changes in the requirements of the course.

Students enrolled in this combined degree program are advised to consult with the Faculty Office regarding their academic progress.

Transition Arrangements - Full-Time and Part-Time
The Course Program has been amended with effect from the commencement of the 2001 academic year. Students affected by changes to the Course Program are advised to consult with their course coordinator.
Bachelor of Engineering (Civil)/Bachelor of Surveying

Award Abbreviations: BE, BSurv

The Bachelor of Engineering (Civil)/Bachelor of Surveying combined degree program is offered by the Faculty of Engineering. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, it offers a broad range of learning, enhancing the academic and professional qualities gained in each degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfers agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/student/arts/credit/index.htm

Program Structure

The civil engineering and surveying combined degree program comprises 420 credit points. Students must complete 12 weeks of industrial experience throughout the course and have the opportunity to undertake an industry-related project in their final year of study in the engineering degree.

The following program of study is based on year 2001 course requirements. It may be varied as a result of future changes to course requirements. Students enrolled in this combined degree program are advised to consult the Faculty Office regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
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<th>Credits Points</th>
<th>Semester</th>
</tr>
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<tbody>
<tr>
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<td>Mechanics and Materials</td>
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<td>1</td>
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<tr>
<td>MATH111</td>
<td>Mathematics 111</td>
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<td>1</td>
</tr>
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<td>PHYS111</td>
<td>Introductory Physics for Engineers and Scientists</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SURV111</td>
<td>Surveying 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIVET42</td>
<td>Environmental Fluid Mechanics</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
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<td>MEGC708</td>
<td>Engineering Computing 1</td>
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<td>2</td>
</tr>
<tr>
<td>SURV112</td>
<td>Surveying 2</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

* MATH111 and MATH112 may replace MATH111 and MATH112

** PHYS111 may replace PHYS111. Students with good academic standing in HSC Physics may substitute CHEM101 for PHYS111 with permission from the Head of Department, Civil, Surveying and Environmental Engineering.

Year 2 (90 credit points)

<table>
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<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV213</td>
<td>Theory of Structures 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIV228</td>
<td>Geomechanics 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SUR218</td>
<td>Electronic Surveying</td>
<td>10</td>
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</tr>
<tr>
<td>MATH201</td>
<td>Multivariate Calculus</td>
<td>10</td>
<td>1</td>
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<tr>
<td>MATH203</td>
<td>Ordinary Differential Equations 1</td>
<td>10</td>
<td>2</td>
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<tr>
<td>SURV213</td>
<td>Surveying 3</td>
<td>10</td>
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<tr>
<td>SUR234</td>
<td>Survey Computations</td>
<td>10</td>
<td>2</td>
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<tr>
<td>CIV205</td>
<td>Engineering Computations and Probability</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIV234</td>
<td>Civil Engineering Materials</td>
<td>10</td>
<td>2</td>
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<tr>
<td>CIV231</td>
<td>Fluid Mechanics</td>
<td>10</td>
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</table>

Year 3 (90 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV318</td>
<td>Theory of Structures 2</td>
<td>10</td>
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<tr>
<td>CIV317</td>
<td>Steel Design</td>
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<td>1</td>
</tr>
<tr>
<td>CIV328</td>
<td>Geomechanics 2</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIV329</td>
<td>Hydraulics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SURV335</td>
<td>Analysis of Observations</td>
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<tr>
<td>CIV316</td>
<td>Reinforced Concrete Design</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIV383</td>
<td>Stress and Finite Element Analysis</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIV271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIV345</td>
<td>Water Engineering</td>
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</table>

Year 4 (90 credit points)

<table>
<thead>
<tr>
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<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV420</td>
<td>Geotechnical Engineering</td>
<td>10</td>
<td>1</td>
</tr>
</tbody>
</table>

*Note that there are special transition arrangements for this subject. It will not be offered in 2001.
1. A four-day live-in Survey Camp is a compulsory part of SURV393.
2. A five-day live-in Survey Camp is a compulsory part of SURV420.

For a complete list of approved subjects refer to course entry for Bachelor of Engineering (Civil).

Transition Arrangements - Full-Time and Part-Time

The Course Program has been amended with effect from the commencement of the 2001 academic year. Students affected by changes to the Course Program are advised to consult with their course coordinator.

Bachelor of Engineering (Computer)

Award Abbreviation: BE

The Bachelor of Engineering (Computer) is offered by the Faculty of Engineering. Computer engineering studies the design and interfacing of computer components and sensing equipment for a wide range of applications, including microelectronics, communications, software engineering and digital systems. Computer engineering is closely related to electrical engineering, however, the emphasis of this degree is on the development of digital electronics, computer hardware and software systems.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/student/arts/credit/index.htm

Course Structure

The computer engineering course is a 4 year program comprising 320 credit points in which students complete core subjects in mathematics, physics and computer engineering. The program offers maximum flexibility in specialization areas as students are able to select from a wide range of electives in third and fourth years. Throughout the course, theoretical studies are complemented by practical laboratory and field exercises. Students will have the opportunity to undertake an industrially relevant project in their final year of study and must also complete 12 weeks of industrial experience throughout the course.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS140</td>
<td>Electrical Engineering 1</td>
<td>10</td>
<td>1</td>
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<tr>
<td>ECS190</td>
<td>Introduction to Engineering Practice</td>
<td>10</td>
<td>1</td>
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<tr>
<td>MATH111</td>
<td>Mathematics 111</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112</td>
<td>10</td>
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<td></td>
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<tr>
<td>PHYS111</td>
<td>Advanced Physics for Scientists and Engineers</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers II</td>
<td>10</td>
<td>1</td>
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<tr>
<td>MATH114</td>
<td>Introduction to Software Engineering 1A</td>
<td>10</td>
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<td>MATH112</td>
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<tr>
<td>MATH116</td>
<td>Introduction to Software Engineering 1B</td>
<td>10</td>
<td>2</td>
<td>MATH113</td>
</tr>
</tbody>
</table>
of Computer Engineering students are advised that they may be eligible to take Industrial Experience Subjects, ELEC192-5. Further details on these subjects are available in the approved subjects list, under the Computer Engineering section of the undergraduate handbook.

Transition Arrangements

As a result of a recent course review, a number of new subjects have been introduced. In addition, a number of existing subjects will be phased out. Because the revised program has 10 credit point value subjects, in some cases, only 5 credit points (half of an equivalent previous subject group) may have been completed. In such cases, students should consult the appropriate course coordinator to obtain the relevant transition arrangements.

Learning Management System

The University of Newcastle

Undergraduate Handbook 2004
Approved Subjects - Department of Electrical and Computer Engineering

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent</th>
<th>Assumed Knowledge (OK)</th>
</tr>
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<tbody>
<tr>
<td>ELEC130</td>
<td>Electrical Engineering 1</td>
<td>10</td>
<td>1</td>
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<tr>
<td>ELEC135</td>
<td>Principles of Telecommunications</td>
<td>10</td>
<td>2</td>
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<tr>
<td>ELEC170</td>
<td>Computer Engineering 1</td>
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<tr>
<td>ELEC180</td>
<td>Introduction to Engineering Practice</td>
<td>10</td>
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<tr>
<td>ELEC192</td>
<td>Industrial Experience #</td>
<td>5</td>
<td>1, 2</td>
<td>Full year: Appropriate full-time work in previous year</td>
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<tr>
<td>ELEC193</td>
<td>Industrial Experience #</td>
<td>5</td>
<td>1, 2</td>
<td>Full year: Appropriate full-time work in previous year</td>
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<tr>
<td>ELEC194</td>
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<tr>
<td>ELEC195</td>
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<td>Full year: Appropriate full-time work in previous year</td>
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<tr>
<td>ELEC212</td>
<td>Sensors and Actuators</td>
<td>10</td>
<td>1</td>
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<td>ELEC130</td>
</tr>
<tr>
<td>ELEC220</td>
<td>Introduction to Electronics</td>
<td>10</td>
<td>1</td>
<td></td>
<td>ELEC130, ELEC170 and PHYS151 or PHYS153</td>
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<tr>
<td>ELEC232</td>
<td>Electrical Circuits</td>
<td>10</td>
<td>1</td>
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<td>ELEC130 and MATH111</td>
</tr>
<tr>
<td>ELEC240</td>
<td>Signals and Systems</td>
<td>10</td>
<td>2</td>
<td></td>
<td>MATH112</td>
</tr>
<tr>
<td>ELEC250</td>
<td>Introduction to Telecommunications</td>
<td>10</td>
<td>2</td>
<td></td>
<td>ELEC130 and MATH111</td>
</tr>
<tr>
<td>ELEC270</td>
<td>Computer Engineering 2</td>
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<td>2</td>
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<td>ELEC130</td>
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<tr>
<td>ELEC280</td>
<td>Project/Directed Reading</td>
<td>10</td>
<td>1, 2</td>
<td>Permission by Head of Department</td>
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<tr>
<td>ELEC281</td>
<td>Project/Directed Reading</td>
<td>5</td>
<td>1, 2</td>
<td>Permission by Head of Department</td>
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<tr>
<td>ELEC310</td>
<td>Electricity Utilisation</td>
<td>10</td>
<td>2</td>
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<td>ELEC121</td>
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<tr>
<td>ELEC321</td>
<td>Instrumentation Electronics</td>
<td>10</td>
<td>1</td>
<td></td>
<td>ELEC220 and ELEC332</td>
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<tr>
<td>ELEC330</td>
<td>Switching Electronics</td>
<td>10</td>
<td>2</td>
<td></td>
<td>ELEC220 and ELEC332</td>
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<tr>
<td>ELEC340</td>
<td>Signal Processing</td>
<td>10</td>
<td>1</td>
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<td>ELEC240 and MATH1242</td>
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<tr>
<td>ELEC350</td>
<td>Telecommunications Networks</td>
<td>10</td>
<td>1</td>
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<td>ELEC250</td>
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<tr>
<td>ELEC352</td>
<td>Analogue and Digital Communications</td>
<td>10</td>
<td>1</td>
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<td>ELEC240 and MATH1242</td>
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<tr>
<td>ELEC371</td>
<td>Microprocessor Systems</td>
<td>10</td>
<td>2</td>
<td></td>
<td>ELEC270</td>
</tr>
<tr>
<td>ELEC372</td>
<td>Programmable Logic Design</td>
<td>10</td>
<td>1</td>
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<td>ELEC270</td>
</tr>
<tr>
<td>ELEC380</td>
<td>Project/Directed Reading</td>
<td>10</td>
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<td>Full year: Permission by Head of Department</td>
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<tr>
<td>ELEC381</td>
<td>Project/Directed Reading</td>
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<tr>
<td>ELEC383</td>
<td>Engineering and Project Management</td>
<td>10</td>
<td>1</td>
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<td>ELEC230</td>
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<tr>
<td>ELEC385</td>
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<td>1</td>
<td>2nd year of an Engineering Degree</td>
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<tr>
<td>ELEC470</td>
<td>Electrical Systems</td>
<td>10</td>
<td>1</td>
<td></td>
<td>ELEC310</td>
</tr>
<tr>
<td>ELEC471</td>
<td>Electronics Design</td>
<td>10</td>
<td>1</td>
<td></td>
<td>ELEC321</td>
</tr>
<tr>
<td>ELEC480</td>
<td>Automatic Control</td>
<td>10</td>
<td>2</td>
<td></td>
<td>MATH203 and (ELEC240 or MEC125)</td>
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<tr>
<td>ELEC441</td>
<td>Control System Design and Management</td>
<td>10</td>
<td>2</td>
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<td>ELEC440</td>
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<tr>
<td>ELEC450</td>
<td>Advanced Telecommunications</td>
<td>10</td>
<td>2</td>
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<td>ELEC440, ELEC350 and ELEC352</td>
</tr>
<tr>
<td>ELEC470</td>
<td>Advanced Computer Systems</td>
<td>10</td>
<td>2</td>
<td></td>
<td>ELEC372</td>
</tr>
<tr>
<td>ELEC471</td>
<td>Real Time Systems</td>
<td>10</td>
<td>2</td>
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<td>ELEC371</td>
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<tr>
<td>ELEC480</td>
<td>Electrical Engineering Project</td>
<td>30</td>
<td>1, 2</td>
<td>Full year: Completion of Year 3 Electrical Engineering</td>
<td></td>
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<tr>
<td>ELEC485</td>
<td>Computer Engineering Project</td>
<td>30</td>
<td>1, 2</td>
<td>Full year: Completion of Year 3 Computer Engineering</td>
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<tr>
<td>ELEC489</td>
<td>Telecommunications Engineering Project</td>
<td>30</td>
<td>1, 2</td>
<td>Full year: Completion of Year 3 Telecommunications Engineering</td>
<td></td>
</tr>
</tbody>
</table>

These units are available to students employed full time in the previous calendar year, in an appropriate technical position (eg engineering trainee). These units formalise such periods of training, and count as electives as follows:
(a) Up to 10 credit points of General Elective; and if credit has already been granted for 10 credit points of General Elective, then (total) of 10 credit points of (total) of third or fourth year electives.
(b) Each student is required to present a report giving a connected account and critical evaluation of engineering activities and experience during the year.
Bachelor of Engineering (Computer)/Bachelor of Business

Award Abbreviations: BE, BBus

The Bachelor of Engineering (Computer)/Bachelor of Business combined degree program is offered by the Faculty of Engineering and the Faculty of Economics and Commerce. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/oucr/laaw/tafecredit/index.htm

Course Structure
The computer engineering and business combined program comprises 440 credit points. In this program, students have the opportunity to select electives according to their individual areas of interest. Students will also have the opportunity to undertake an industrially related project in their final year of study in the engineering degree and must also complete 12 weeks of industrial experience throughout the course.

To meet the current requirements for the Bachelor of Business component students must complete 160 credit points of Economics and Commerce subjects, that include: all Core Subjects (listed in the table of Compulsory Core Subjects below), and a major sequence prescribed for the degree. There are four major sequences available: International Business, Industrial Relations/Human Resource Management, Management and Marketing. A major sequence of study consists of at least 30 credit points at 200 level and 40 credit points at 300 level in a prescribed subject area, for details of subjects refer to the list below and to Bachelor of Business entry.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Economics and Commerce based on 2001 course requirements. It may be varied as a result of future changes in the requirements of the course.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 (90 credit points)</td>
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<tr>
<td>ELEC110</td>
<td>Electrical Engineering I</td>
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<tr>
<td>ELEC120</td>
<td>Introduction to Engineering Practice</td>
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<tr>
<td>LAW101</td>
<td>Foundations of Law</td>
<td>10</td>
<td>1</td>
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<tr>
<td>MATH111</td>
<td>Mathematics I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers I</td>
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<td>1</td>
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<tr>
<td>ELEC120</td>
<td>Electrical Engineering I</td>
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<tr>
<td>MATH112</td>
<td>Mathematics II</td>
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<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
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<td>PHYS114</td>
<td>Advanced Physics for Scientists and Engineers II</td>
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<tr>
<td>*</td>
<td>MATH121 and MATH122 may be taken in lieu of MATH111 and MATH112</td>
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Year 2 (90 credit points)

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<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<tbody>
<tr>
<td>ACFI101</td>
<td>Financial Accounting</td>
<td>10</td>
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<tr>
<td>ELEC220</td>
<td>Introduction to Electronics</td>
<td>10</td>
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<td></td>
</tr>
<tr>
<td>ELEC332</td>
<td>Electrical Circuits</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GEB111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>2</td>
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</tr>
<tr>
<td>MATH201</td>
<td>Multivariable Calculus</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MATH202</td>
<td>Ordinary Differential Equations</td>
<td>10</td>
<td>2</td>
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<tr>
<td>ELEC240</td>
<td>Signals and Systems</td>
<td>10</td>
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<tr>
<td>ELEC270</td>
<td>Computer Engineering II</td>
<td>10</td>
<td>2</td>
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<tr>
<td>MATH242</td>
<td>Engineering Mathematics II</td>
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<td>ACFI103</td>
<td>Financial Management</td>
<td>10</td>
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Year 3 (90 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC212</td>
<td>Sensors and Actuators</td>
<td>10</td>
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</tr>
<tr>
<td>ELEC372</td>
<td>Programmable Logic Design</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC220</td>
<td>Business Communications</td>
<td>10</td>
<td>1</td>
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<tr>
<td>ELEC220</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1</td>
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<td>ELEC311</td>
<td>Introduction to Software Engineering I</td>
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<td>1</td>
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<tr>
<td>ELEC312</td>
<td>Microprocessor Systems</td>
<td>10</td>
<td>2</td>
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<td>ELEC315</td>
<td>Introduction to Electrical Engineering Design</td>
<td>10</td>
<td>2</td>
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</tr>
<tr>
<td>ELEC312</td>
<td>Introduction to Software Engineering II</td>
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<td>2</td>
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<tr>
<td>ELEC312</td>
<td>Management subject at 200 level</td>
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</table>

Year 4 (90 credit points)

<table>
<thead>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</thead>
<tbody>
<tr>
<td>MKTG226</td>
<td>Business Venturing</td>
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<td>ECOM210</td>
<td>Microeconomics I</td>
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<tr>
<td>ELEC220</td>
<td>Computer Engineering Electives at 300 level</td>
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<tr>
<td>ELEC312</td>
<td>Computer Engineering Electives at 300/400 level</td>
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<tr>
<td>ELEC312</td>
<td>Economics and Commerce subject at 300 or 500 level</td>
<td>10</td>
<td>1, 2</td>
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</tr>
</tbody>
</table>

Year 5 (60 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH212</td>
<td>Contemporary Management Issues</td>
<td>10</td>
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</tr>
<tr>
<td>ECOM210</td>
<td>Microeconomics I</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ELEC220</td>
<td>Computer Engineering Project</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ELEC312</td>
<td>Technology and Human Values</td>
<td>10</td>
<td>1</td>
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</tr>
<tr>
<td>ELEC312</td>
<td>Management Electives at 300 level</td>
<td>20</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>Must include ELEC470 Advanced Computer Systems or ELEC471 Real Time Systems.</td>
<td></td>
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</tr>
</tbody>
</table>

Transition Arrangements
Students should refer to the Bachelor of Engineering (Computer) entry for information about relevant transition arrangements. Please discuss your academic program with the Course Coordinator if any concerns are raised.

Compulsory Core Subjects in the Bachelor of Business

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFI103</td>
<td>Financial Management for Business</td>
<td>10</td>
<td>1</td>
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</tr>
<tr>
<td>ECOM210</td>
<td>Microeconomics I</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECH212</td>
<td>Microeconomics I</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECH212</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECH212</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECOM210</td>
<td>Business Communications</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECH212</td>
<td>Foundations of Law</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECOM210</td>
<td>Marketing Principles</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECOM210</td>
<td>Statistics for Business</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

For further information regarding subjects and Major Sequences, refer to the single course entry for the Bachelor of Business.
Bachelor of Engineering (Computer)/Bachelor of Computer Science

Award Abbreviations: BE, BCompSc

The Bachelor of Engineering (Computer)/Bachelor of Computer Science combined degree program is offered by the Faculty of Engineering. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, it offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

**TAFE Credit**

Credit transfer arrangements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/undergraduatecredit/index.htm

**Program Structure**

The computer engineering and computer science combined program is a 5-year program comprising 400 credit points. Students have the opportunity to select electives according to their individual areas of interest. Students will have the opportunity to undertake an industry-related project in their final year of study in the engineering degree and complete 12 weeks of industrial experience throughout the course.

The following program of study is based on 2001 course requirements. It may be varied as a result of future changes in the requirements of the course.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic programs.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC170</td>
<td>Electrical Engineering 1</td>
<td>10</td>
<td>1</td>
<td>ELEC130 and MATH112</td>
</tr>
<tr>
<td>SENG111</td>
<td>Introduction to Software Engineering 1</td>
<td>10</td>
<td>1</td>
<td>ELEC130, ELEC170 and (PHYS112 or PHYS114)</td>
</tr>
<tr>
<td>MATH111</td>
<td>Mathematics 111*</td>
<td>10</td>
<td>1</td>
<td>MATH112, PHYS113</td>
</tr>
<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers 1</td>
<td>10</td>
<td>1</td>
<td>MATH112, MATH112</td>
</tr>
<tr>
<td>ELEC170</td>
<td>Computer Engineering 1</td>
<td>10</td>
<td>2</td>
<td>ELEC170</td>
</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112*</td>
<td>10</td>
<td>2</td>
<td>MATH112, MATH112</td>
</tr>
<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers 2</td>
<td>10</td>
<td>2</td>
<td>MATH112, MATH201</td>
</tr>
<tr>
<td>SENG117</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>2</td>
<td>ELEC130 or SENG111</td>
</tr>
</tbody>
</table>

* Approved option; MATH121 and MATH122 may be taken in lieu of MATH111 and MATH112.

**Degree Transition Arrangements**

Students should refer to the Bachelor of Engineering (Computer) entry for information about relevant transition arrangements. Please discuss your academic program with the Course Coordinator if any concerns are raised.

Bachelor of Engineering (Computer)/Bachelor of Mathematics

Award Abbreviations: BE, BMath

The Bachelor of Engineering (Computer)/Bachelor of Mathematics combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/undergraduatecredit/index.htm

**Program Structure**

The Bachelor of Engineering (Computer)/Bachelor of Mathematics combined degree program comprises subjects with a total value of 400 credit points. To meet the current requirements of this combined degree program students must complete the program of study below within this program. Students have the opportunity to select electives according to their individual areas of interest. Throughout their course, students must also complete 12 weeks of industrial experience. They will have the opportunity to undertake an industry-related engineering project in their fourth year of study.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics based on 2001 course requirements. It may be varied as a result of future changes in course requirements or by the agreement of the Deans of both faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC130</td>
<td>Electrical Engineering 1</td>
<td>10</td>
<td>1</td>
<td>SENG112, MATH112, MATH201</td>
</tr>
<tr>
<td>MATH112</td>
<td>Discrete Mathematics 1</td>
<td>10</td>
<td>1</td>
<td>MATH112, MATH201</td>
</tr>
<tr>
<td>SENG112</td>
<td>Software Analysis and Verification</td>
<td>10</td>
<td>2</td>
<td>ELEC170, MATH112</td>
</tr>
<tr>
<td>ELEC270</td>
<td>Microprocessors Systems</td>
<td>10</td>
<td>2</td>
<td>ELEC130, ELEC170, MATH112</td>
</tr>
<tr>
<td>ELEC272</td>
<td>Programmable Logic Design</td>
<td>10</td>
<td>2</td>
<td>ELEC130, MATH112</td>
</tr>
<tr>
<td>ELEC385</td>
<td>Introduction to Electrical Engineering Design</td>
<td>10</td>
<td>2</td>
<td>MATH112, MATH201</td>
</tr>
<tr>
<td>SENG211</td>
<td>Software Process</td>
<td>10</td>
<td>2</td>
<td>ELEC130, MATH112</td>
</tr>
<tr>
<td>ELEC470</td>
<td>3rd Year Computer Engineering Electives</td>
<td>10</td>
<td>2</td>
<td>MATH112, MATH201</td>
</tr>
</tbody>
</table>

The University of Newcastle

Undergraduate Handbook 2001
PHYS114 Advanced Physics for Scientists and Engineers II 10 2 PHYS113
SENG110 Introduction to Software Engineering 1A 10 2

Year 2 (80 Credit Points)

ELEC212 Sensors and Actuators 10 1 ELEC310
ELEC220 Introduction to Electronics 10 1 ELEC310, ELEC270 and (PHYS112 or PHYS114)
ELEC232 Electrical Circuits 10 1 ELEC310 and MATH122
MATH201 Multivariable Calculus 5 1 MATH122
MATH202 Ordinary Differential Equations 1 5 1 MATH122
ELEC240 Signals and Systems 10 2 ELEC170
ELEC270 Computer Engineering II 10 2 ELEC170
MATH242 Engineering Mathematics II 10 2 ELEC170 and MATH201
SENG212 Introduction to Software Engineering 2 10 2 SENG110 and SENG119

Year 3 (80 Credit Points)

ELEC383 Engineering and Project Management 10 1 2nd Year of an Engineering Degree
MATH208 Linear Algebra 5 1 MATH122
MATH230 Analytic Geometry I 5 1 MATH122
ELEC372 Programmable Logic Design 10 1 ELEC270
ELEC371 Microprocessor Systems 10 2 ELEC270
ELEC385 Introduction to Electrical Engineering Design 10 2 2nd Year of an Engineering Degree
3rd Year Computer Engineering Electives 30 1, 2

Year 4 (80 Credit Points)

ELEC485 Computer Engineering Project 30 1, 2 or Full year 3rd Year of an Engineering Degree
PHIL391 Technology and Human Values 10 1
MATH222 Algebraic Methods II 5 1 MATH122
4th Year Computer Engineering Electives 30 1, 2 (including at least one of ELEC470 or ELEC471)
MATH 200 level subject 5 1, 2

Year 5 (80 Credit Points)

MATH 300 level subjects 40 1, 2
Bachelor of Mathematics 100, 200 or 300 level subjects 20 1, 2
Bachelor of Mathematics 300 level subjects 20 1, 2

Refer to single course entry for Bachelor of Engineering (Computer) for complete approved elective list. Refer to single course entry for Bachelor of Mathematics for complete approved elective list.

Transition Arrangements

Students should refer to the Bachelor of Engineering (Computer) entry for information about relevant transition arrangements. Please discuss your academic program with the Course Coordinator if any concerns are raised.

Bachelor of Engineering (Computer)/Bachelor of Science - Physics Major

Award Abbreviations: BE, BSc

The Bachelor of Engineering (Computer)/Bachelor of Science-Physics Major combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. This program provides students with an opportunity to undertake combined study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/tasa/tafe/cred/index.html

Program Structure

The Bachelor of Engineering (Computer)/Bachelor of Science-Physics Major combined degree program comprises subjects with a total value of 400 credit points. To meet the requirements of this combined degree program students must complete the program of study set out below. In this program, students have the opportunity to select electives according to their individual areas of interest. Throughout this course students must complete 12 weeks of industrial experience. They will also have the opportunity to undertake an industry related engineering project in their fourth year of study.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics based on 2001 course requirements. It may be varied as a result of future changes in course requirements, or by agreement of the Deans of both faculties.

Students enrolled in a combined degree are advised to consult with the relevant Faculty Officers regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 (80 Credit Points)</td>
<td></td>
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</tr>
<tr>
<td>ELEC150</td>
<td>Electrical Engineering 1</td>
<td>10</td>
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<tr>
<td>ELEC151</td>
<td>Introduction to Electrical Engineering Practice</td>
<td>10</td>
<td>1</td>
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<tr>
<td>MATH127</td>
<td>Advanced Mathematics 127</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PHYS112</td>
<td>Advanced Physics for Scientists and Engineers I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC270</td>
<td>Computer Engineering 1</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MATH212</td>
<td>Advanced Mathematics 212</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PHYS114</td>
<td>Advanced Physics for Scientists and Engineers II</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ELEC310</td>
<td>Introduction to Software Engineering 1A</td>
<td>10</td>
<td>2</td>
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<tr>
<td>Year 2 (80 Credit Points)</td>
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</tr>
<tr>
<td>ELEC212</td>
<td>Sensors and Actuators</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC220</td>
<td>Introduction to Electronics</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC232</td>
<td>Electrical Circuits</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MATH201</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
<td></td>
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<tr>
<td>MATH202</td>
<td>Ordinary Differential Equations 1</td>
<td>5</td>
<td>1</td>
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<tr>
<td>ELEC240</td>
<td>Signals and Systems</td>
<td>10</td>
<td>2</td>
<td></td>
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<tr>
<td>ELEC270</td>
<td>Computer Engineering 2</td>
<td>10</td>
<td>2</td>
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<tr>
<td>MATH412</td>
<td>Engineering Mathematics II</td>
<td>10</td>
<td>2</td>
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<td>SENG212</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>* Students who have completed ELEC220 are not permitted to enrol in PHYS213.</td>
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<tr>
<td>Year 3 (80 Credit Points)</td>
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<tr>
<td>ELEC383</td>
<td>Engineering and Project Management</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>ELEC372</td>
<td>Programmable Logic Design</td>
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<td>1</td>
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<tr>
<td>ELEC371</td>
<td>Microprocessor Systems</td>
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<td>2</td>
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<tr>
<td>ELEC385</td>
<td>Introduction to Electrical Engineering Design</td>
<td>10</td>
<td>2</td>
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<tr>
<td>3rd Year Computer Engineering Electives</td>
<td>40</td>
<td>1, 2</td>
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<td>Year 4 (80 Credit Points)</td>
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<tr>
<td>ELEC485</td>
<td>Computer Engineering Project</td>
<td>30</td>
<td>1, 2 or Full year</td>
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<tr>
<td>PHIL391</td>
<td>Technology and Human Values</td>
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<td>1</td>
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</tr>
<tr>
<td>PHYS210</td>
<td>200 level subjects - selected from PHYS210, PHYS211, PHYS212, SCIM201</td>
<td>20</td>
<td>1, 2</td>
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<tr>
<td>PHYS214</td>
<td>Quantum Mechanics</td>
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<td>1</td>
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<tr>
<td>PHYS215</td>
<td>Electromagnetism</td>
<td>5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4th Year Computer Engineering Electives</td>
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<td>1, 2</td>
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<tr>
<td>Year 5 (80 Credit Points)</td>
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<td></td>
</tr>
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<td>PHYS200</td>
<td>200 level subjects</td>
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<tr>
<td>MATH120</td>
<td>300 level subjects</td>
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<td>1, 2</td>
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<tr>
<td>MATH122</td>
<td>300 level Science subjects</td>
<td>20</td>
<td>1, 2</td>
<td></td>
</tr>
</tbody>
</table>

Refer to single course entry for Bachelor of Engineering (Computer) for complete approved elective list. Refer to single course entry for Bachelor of Science for complete approved subject list.
### Transition Arrangements

Students should refer to the Bachelor of Engineering (Computer) entry for information about relevant transition arrangements. Please discuss your academic program with the Course Coordinator if any concerns are raised.

### Bachelor of Engineering (Electrical)

**Award Abbreviation: BE**

The Bachelor of Engineering (Electrical) is offered by the Faculty of Engineering. This course gives students the opportunity to study aspects of power generation and distribution, telecommunications, signal processing, and analog and digital electronics. The diverse range of subjects in this course offers maximum flexibility and allows for the completion of a general electrical program or speciality advanced study, depending on the interests of the student.

### TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at https://www.newcastle.edu.au/services/ourcourses/tafecredit/index.htm

### Course Structure

The electrical engineering course is a 4 year program comprising 320 credit points in which students complete core subjects in mathematics, physics and general engineering, together with electrical engineering subjects to gain hands-on experience and theoretical introduction to electrical circuits and digital electronics. In third and fourth years students are able to select from a wide range of electives. Students will have the opportunity to undertake an industry related project in their final year of study and must also complete 12 weeks of industrial experience throughout the course.

### Course Program

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 (80 credit points)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEC130</td>
<td>Electrical Engineering I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC180</td>
<td>Introduction to Engineering Practice</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MATH111</td>
<td>Mathematics I11</td>
<td>10</td>
<td>1</td>
<td>2 HSC Mathematics</td>
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<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers I</td>
<td>10</td>
<td>1</td>
<td>HSC Physics</td>
</tr>
<tr>
<td>ELEC170</td>
<td>Computer Engineering I</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MATH112</td>
<td>Advanced Mathematics II*</td>
<td>10</td>
<td>2</td>
<td>MATH112</td>
</tr>
<tr>
<td>PHYS114</td>
<td>Advanced Physics for Scientists and Engineers II</td>
<td>10</td>
<td>2</td>
<td>PHYS113</td>
</tr>
<tr>
<td>SENG110</td>
<td>Introduction to Software Engineering IA</td>
<td>10</td>
<td>2</td>
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</tr>
<tr>
<td>Year 2 (80 credit points)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ELEC212</td>
<td>Sensors and Actuators</td>
<td>10</td>
<td>1</td>
<td>ELEC190</td>
</tr>
<tr>
<td>ELEC220</td>
<td>Introduction to Electronics</td>
<td>10</td>
<td>1</td>
<td>ELEC190 and ELEC170 and PHYS112 or PHYS114</td>
</tr>
<tr>
<td>ELEC232</td>
<td>Electrical Circuits</td>
<td>10</td>
<td>1</td>
<td>ELEC190 and MATH112</td>
</tr>
<tr>
<td>MATH201</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
<td>MATH12</td>
</tr>
<tr>
<td>MATH203</td>
<td>Ordinary Differential Equations</td>
<td>5</td>
<td>1</td>
<td>MATH12</td>
</tr>
<tr>
<td>ELEC240</td>
<td>Signals and Systems</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ELEC270</td>
<td>Computer Engineering II</td>
<td>10</td>
<td>2</td>
<td>ELEC170</td>
</tr>
<tr>
<td>MATH242</td>
<td>Engineering Mathematics II</td>
<td>10</td>
<td>2</td>
<td>MATH12 and MATH101</td>
</tr>
<tr>
<td>MATH233</td>
<td>Statics</td>
<td>5</td>
<td>2</td>
<td>MATH12 and PHYS112 or PHYS114</td>
</tr>
<tr>
<td>MEC237</td>
<td>Heat Transfer</td>
<td>5</td>
<td>2</td>
<td>MATH112</td>
</tr>
<tr>
<td>Year 3 (80 credit points)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEC383</td>
<td>Engineering and Project Management</td>
<td>10</td>
<td>1</td>
<td>2nd year of an Engineering Degree</td>
</tr>
<tr>
<td>ELEC310</td>
<td>Electricity Utilization</td>
<td>10</td>
<td>2</td>
<td>ELEC212</td>
</tr>
<tr>
<td>ELEC385</td>
<td>Introduction to Electrical Engineering Design</td>
<td>10</td>
<td>2</td>
<td>2nd year of an Engineering Degree</td>
</tr>
<tr>
<td>Plus 50 credit points selected from the following list of 3rd year Electrical Engineering Electives:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEC321</td>
<td>Instrumentation Electronics</td>
<td>10</td>
<td>1</td>
<td>ELEC220 and ELEC32</td>
</tr>
<tr>
<td>ELEC340</td>
<td>Signal Processing</td>
<td>10</td>
<td>1</td>
<td>ELEC240 and MATH124</td>
</tr>
<tr>
<td>ELEC352</td>
<td>Analog and Digital Communications</td>
<td>10</td>
<td>1</td>
<td>ELEC240 and MATH124</td>
</tr>
</tbody>
</table>

### Part-Time Attendance

Students wishing to undertake a part-time study pattern should discuss their study plans with the Course Coordinator. There are no part-time study options available in the Electrical Engineering course.

### Transition Arrangements

As a result of a recent course review a number of new subjects have been introduced. In addition, a number of existing subjects will be phased out. Because the revised program has 10 credit point value subjects, in some cases, only 5 credit points (half) of an equivalent previous subject group may have been completed. In such cases, students should consult the appropriate course coordinator to obtain the relevant transition arrangements.
### Subject Equivalents, Transitions and Deletions

<table>
<thead>
<tr>
<th>New Subject</th>
<th>Equivalent Previous Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC232 Electrical Circuits (New 2000)</td>
<td>ELEC231 Electrical Circuits (Deleted 2000)</td>
</tr>
<tr>
<td>ELEC240 Signals and Systems (New 2000)</td>
<td>PHYS201 Quantum Mechanics and Electromagnetism</td>
</tr>
<tr>
<td>ELEC250 Introduction to Telecommunications (New 2000)</td>
<td>ELEC351 Telecommunications (Deleted 2001) and 3rd Year Elective (5 credit points)</td>
</tr>
<tr>
<td>ELEC310 Electricity Utilisation (New 2001)</td>
<td>ELEC312 Electrical Systems (Deleted 2001) and ELEC314 Alternating Current Machines (Deleted 2001)</td>
</tr>
<tr>
<td>ELEC321 Instrumentation Electronics (Revised 2000)</td>
<td>ELEC321 Linear Electronics</td>
</tr>
<tr>
<td>ELEC323 Switching Electronics (New 2000)</td>
<td>ELEC322 Switching Electronics (Deleted 2000) and ELEC315 Power Converter Technology (Deleted 2000)</td>
</tr>
<tr>
<td>ELEC340 Signal Processing (New 2001)</td>
<td>ELEC341 Digital Signal Processing (Deleted 2001) and 3rd Year Elective (5 credit points)</td>
</tr>
<tr>
<td>ELEC350 Telecommunications Networks (New 2001)</td>
<td>3rd Year or 4th Year Electives (10 credit points)</td>
</tr>
<tr>
<td>ELEC372 Programmable Logic Design (Revised 2000)</td>
<td>ELEC372 Computer Architecture</td>
</tr>
<tr>
<td>ELEC383 Engineering and Project Management (New 2001)</td>
<td>ELEC382 Engineering Management (Deleted 2001) and MEC482 Engineering Economics 1</td>
</tr>
<tr>
<td>ELEC385 Introduction to Electrical Engineering Design (New 2001)</td>
<td>3rd Year Elective (10 credit points)</td>
</tr>
<tr>
<td>ELEC450 Advanced Telecommunications (New 2000)</td>
<td>ELEC445 Advanced Signal Processing (Deleted 2000) and ELEC455 Advanced Communications (Deleted 2000)</td>
</tr>
<tr>
<td>MATH242 Engineering Mathematics II (New 2000)</td>
<td>MATH206 Complex Analysis 1 and (MATH219 Matrix Methods or MATH208 Linear Algebra)</td>
</tr>
<tr>
<td>MECH312 Heat Transfer</td>
<td>3rd Year Elective (5 credit points)</td>
</tr>
<tr>
<td>PHYS350 (New 2001)</td>
<td>ELEC454 Engineering Electromagnetics (Deleted 2001) and 3rd/4th Year Elective (5 credit points)</td>
</tr>
</tbody>
</table>

Approved Subjects - Department of Electrical and Computer Engineering

For a complete list of approved subjects offered by the Department of Electrical and Computer Engineering please refer to the course entry for the Bachelor of Engineering (Computer).

### Schedule

#### Specialisations

1. The degree may be offered in one of the following specialisations:
   - Civil Engineering;
   - Computer Engineering;
   - Electrical Engineering;
   - Environmental Engineering;
   - Industrial Engineering;
   - Mechanical Engineering;
   - Telecommunications Engineering;
   - Software Engineering;
   - Mechatronics;

2. For the purposes of this Schedule, the designated Department with respect to each specialisation shall be:
   - Department of Chemical Engineering;
   - Chemical Engineering;
   - Department of Civil, Surveying and Environmental Engineering;
   - Civil Engineering and Environmental Engineering;
   - Department of Computer Science and Software Engineering;

3. To qualify for admission to the degree a candidate shall:
   - complete the requirements of the course program for that specialisation; and
   - complete the industrial experience requirements as determined by the Faculty Board.

4. The course program for each specialisation shall consist of subjects totalling not less than 320 credit points approved by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.

5. A candidate may not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board for the particular specialisation.

6. Credit may be granted for up to 160 credit points except that a candidate may be granted such credit as the Faculty Board determines for subjects completed in the University which have not already been counted towards an award.

7. The Faculty Board may make conditions with respect to the transfer of candidature from one specialisation in the degree to another.

8. A candidate who has satisfied the requirements for admission to the degree in one specialisation may be admitted to candidature in any other specialisation on such conditions as the Faculty Board may prescribe. Upon completing the requirements for admission to the degree in that other specialisation, another Bachelor of Engineering degree will be conferred.

9. A candidate may complete the requirements of one specialisation in conjunction with another specialisation by completing a combined degree program approved by the Academic Senate on the advice of the Faculty Board. To qualify for admission to the two Engineering degrees a candidate shall satisfy the requirements for both degrees, except as may be otherwise provided.
The Bachelor of Engineering (Electrical)/Bachelor of Business combined degree program is offered by the Faculty of Engineering and the Faculty of Economics and Commerce. This combined degree provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

**TAFE Credit**
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oua/ass/tafecreditindex.htm

**Course Structure**
The electrical engineering and business combined degree program comprises 430 credit points. In this program, students have the opportunity to select electives according to their individual areas of interest. To meet the current requirements of the Bachelor of Engineering component of the degree students must complete the program below. Within this course students must complete 12 weeks of industrial experience and have the opportunity to undertake an industrially related project in their final year of study.

To meet the current requirements for the Bachelor of Business component of the degree; students must complete the program below including 160 credit points of Economics & Commerce subjects, that include: all Core Subjects (listed in the table of Compulsory Core Subjects below), and a major sequence prescribed for the degree. There are four major sequences available: International Business, Industrial Relations/Human Resource Management, Management and Marketing. A major sequence of study consists of at least 35 credit points at 200 level and 40 credit points at 300 level in a prescribed subject area. For details of subjects, refer to the list below and to the Bachelor of Business entry.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Economics and Commerce based on 2001 course requirements. It may be varied as a result of future changes in the requirements of the course.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 (80 credit points)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEC130</td>
<td>Electrical Engineering 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC130</td>
<td>Introduction to Engineering Practice</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MATH111</td>
<td>Mathematics 111*</td>
<td>10</td>
<td>1</td>
<td>2 Unit HSC Mathematics</td>
</tr>
<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers I</td>
<td>10</td>
<td>1</td>
<td>HSC Physics \nHSC 3 Unit Mathematics with a mark of at least 15Y2Y2</td>
</tr>
<tr>
<td>ELEC130</td>
<td>Computer Engineering 1</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112*</td>
<td>10</td>
<td>2</td>
<td>MATH111</td>
</tr>
<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PHYS114</td>
<td>Advanced Physics for Scientists and Engineers II</td>
<td>10</td>
<td>2</td>
<td>PHYS113</td>
</tr>
<tr>
<td>*MATH111 and MATH112 may replace MATH111 and MATH112.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 2 (90 credit points)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEC212</td>
<td>Sensors and Actuators</td>
<td>10</td>
<td>1</td>
<td>ELEC130</td>
</tr>
<tr>
<td>ELEC220</td>
<td>Introduction to Electronics</td>
<td>10</td>
<td>1</td>
<td>ELEC130 and ELEC170 and (PHYS112 or PHYS113)</td>
</tr>
<tr>
<td>ELEC232</td>
<td>Electrical Circuits</td>
<td>10</td>
<td>1</td>
<td>ELEC130 and MATH112</td>
</tr>
<tr>
<td>IRHR111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MATH201</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
<td>MATH112</td>
</tr>
<tr>
<td>MATH202</td>
<td>Ordinary Differential Equations I</td>
<td>5</td>
<td>1, 2</td>
<td>MATH112</td>
</tr>
<tr>
<td>ELEC240</td>
<td>Signals and Systems</td>
<td>10</td>
<td>2</td>
<td>ELEC170</td>
</tr>
<tr>
<td>ELEC270</td>
<td>Computer Engineering 2</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MATH242</td>
<td>Engineering Mathematics II</td>
<td>10</td>
<td>2</td>
<td>MATH112 and MATH201</td>
</tr>
<tr>
<td>ACT101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Year 3 (90 credit points)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEC310</td>
<td>Electricity Utilization</td>
<td>10</td>
<td>2</td>
<td>ELEC212</td>
</tr>
</tbody>
</table>

**Transition Arrangements**
Students should refer to the Bachelor of Engineering (Electrical) entry for information about relevant transition arrangements. Please discuss your academic program with the Co-ordinator if any concerns are raised.

**Electrical Engineering Electives**
For a complete list of approved electrical engineering electives, refer to the course entry for the Bachelor of Engineering (Electrical).

**Compulsory Core Subjects for Bachelor of Business Course**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC6101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>AC6102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>AC6103</td>
<td>Foundations of Law</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics I</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics I</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>ECON125</td>
<td>Introduction to Information Systems</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>IRHR111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MKTG100</td>
<td>Business Communications</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

* AC6210 Financial Management may be substituted for AC6210.

For exact information regarding subjects and major sequences refer to degree course entry for Bachelor of Business.
Bachelor of Engineering (Electrical)/Bachelor of Computer Science

Award Abbreviations: BE, BCompSc

The Bachelor of Engineering (Electrical)/Bachelor of Computer Science combined degree program is offered by the Faculty of Engineering. The program provides students with an opportunity to undertake concurrent study and complete two awards within five years of full-time study. In general, this combined degree program offers considerably greater breadth and depth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, this program recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ausa/tafecred/index.htm.

Course Structure

The electrical engineering and computer science combined degree comprises 420 credit points. Students have the opportunity to select electives according to their individual areas of interest. Students may undertake an industrially related project in their final year of study in the engineering degree and must complete 12 weeks of industrial experience throughout the course.

The following program of study is based on 2001 course requirements and may vary in detail as a result of future changes in the requirements of the course. Students enrolled in a combined degree are advised to consult the two Faculty Offices that administer each degree regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC130</td>
<td>Electrical Engineering 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SENG111</td>
<td>Introduction to Software Engineering 1</td>
<td>10</td>
<td>1</td>
<td>ELEC130</td>
</tr>
<tr>
<td>MA1H111</td>
<td>Mathematics 111</td>
<td>10</td>
<td>2</td>
<td>Unit HSC Mathematics</td>
</tr>
<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers I</td>
<td>10</td>
<td>1</td>
<td>HSC Physics</td>
</tr>
<tr>
<td>ELEC170</td>
<td>Computer Engineering 1</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
<td>MATH111</td>
</tr>
<tr>
<td>PHYS114</td>
<td>Advanced Physics for Scientists and Engineers II</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SENG112</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>2</td>
<td>SENG110 or SENG111</td>
</tr>
</tbody>
</table>

* Approved option: MATH112 and MATH112 may be taken in lieu of MATH111 and MATH112.

Year 2 (90 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC212</td>
<td>Sensors and Actuators</td>
<td>10</td>
<td>1</td>
<td>ELEC130</td>
</tr>
<tr>
<td>ELEC232</td>
<td>Electrical Circuits</td>
<td>10</td>
<td>1</td>
<td>ELEC130 and MATH112</td>
</tr>
<tr>
<td>ELEC180</td>
<td>Introduction to Engineering Practice</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MA1H151</td>
<td>Discrete Mathematics</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MA1H152</td>
<td>Multivariate Calculus</td>
<td>5</td>
<td>1</td>
<td>MATH111</td>
</tr>
<tr>
<td>ELEC240</td>
<td>Signals and Systems</td>
<td>10</td>
<td>2</td>
<td>MATH111 or MATH112, MATH112 or MATH122, MATH201</td>
</tr>
<tr>
<td>ELEC270</td>
<td>Computer Engineering 2</td>
<td>10</td>
<td>2</td>
<td>ELEC170</td>
</tr>
<tr>
<td>MATH242</td>
<td>Engineering Mathematics II</td>
<td>10</td>
<td>2</td>
<td>MATH112 and MATH201</td>
</tr>
<tr>
<td>MECH223</td>
<td>Dynamics</td>
<td>5</td>
<td>2</td>
<td>MATH112 and (PHYS112 or PHYS122)</td>
</tr>
<tr>
<td>SENG114</td>
<td>The Online Society</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Year 3 (90 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC310</td>
<td>Electricity Utilisation</td>
<td>10</td>
<td>2</td>
<td>ELEC212</td>
</tr>
<tr>
<td>ELEC322</td>
<td>Programmable Logic Design</td>
<td>10</td>
<td>1</td>
<td>ELEC230</td>
</tr>
<tr>
<td>ELEC320</td>
<td>Introduction to Electronics</td>
<td>10</td>
<td>1</td>
<td>ELEC130 and ELEC170 and (PHYS112 or PHYS122)</td>
</tr>
<tr>
<td>MA1H203</td>
<td>Ordinary Differential Equations 1</td>
<td>5</td>
<td>1</td>
<td>MA1H152</td>
</tr>
<tr>
<td>SENG211</td>
<td>Software Analysis and Verification</td>
<td>10</td>
<td>1</td>
<td>SENG112</td>
</tr>
<tr>
<td>ELEC371</td>
<td>Microprocessor Systems</td>
<td>10</td>
<td>2</td>
<td>ELEC270</td>
</tr>
<tr>
<td>ELEC385</td>
<td>Introduction to Electrical Engineering Design</td>
<td>10</td>
<td>2</td>
<td>2nd Year of an Engineering Degree</td>
</tr>
<tr>
<td>MECH372</td>
<td>Heat Transfer</td>
<td>5</td>
<td>2</td>
<td>MATH112</td>
</tr>
<tr>
<td>SENG212</td>
<td>Software Process</td>
<td>10</td>
<td>2</td>
<td>SENG211</td>
</tr>
</tbody>
</table>

Bachelor of Engineering (Electrical)/Bachelor of Mathematics

Award Abbreviations: BE, BMath

The Bachelor of Engineering (Electrical)/Bachelor of Mathematics combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. The combined degree program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ausa/tafecred/index.htm.

Program Structure

The Bachelor of Engineering (Electrical)/Bachelor of Mathematics combined degree program comprises subjects with a total value of 460 credit points. To meet the current requirements of this combined degree program, students must complete the program of study set out below. While this program, students have the opportunity to select electives according to their individual areas of interest. Throughout their course students must also complete 12 weeks of industrial experience. They will have the opportunity to undertake an industry related engineering project in their fourth year of study.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics based on 2001 course requirements. It may be varied as a result of future changes in course requirements, or by the agreement of the Deans of both Faculties.

Students enrolled in a combined degree program are advised to consult relevant Faculty Offices regarding their academic program.
Bachelor of Engineering (Electrical)/Bachelor of Science - Physics Major

The Bachelor of Engineering (Electrical)/Bachelor of Science - Physics Major combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, [http://www.newcastle.edu.au/services/student/tafecredit/index.htm](http://www.newcastle.edu.au/services/student/tafecredit/index.htm)

**Program Structure**

The Bachelor of Engineering (Electrical)/Bachelor of Science - Physics Major, combined degree program comprises subjects with a total value of 400 credit points. To meet the current requirements of this combined degree program, students must complete the program of study set out below. Within this program, students undertake a major sequence of study in Physics and have the opportunity to select electives according to their individual areas of interest. Students must also complete 12 weeks of industrial experience and have the opportunity to undertake an industry related engineering project in their fourth year of study.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics based on 2001 course requirements. It may be varied as a result of future changes in the course requirements, or by the agreement of the Deans of both faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

### Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
ELEC130 | Electrical Engineering I | 10 | 1 | 2nd year of an Engineering Degree
ELEC131 | Electrical Engineering II | 10 | 2 | MATH122
ELEC132 | Electrical Engineering III | 10 | 3 | 3rd year of Electrical Engineering Degree
PHYS115 | Advanced Physics for Scientists and Engineers I | 10 | 1 | HSC 2 Unit Physics and HSC 3 Unit Mathematics with a mark of at least 110/150
PHYS116 | Advanced Physics for Scientists and Engineers II | 10 | 2 | HSC 3 Unit Physics and HSC 3 Unit Mathematics with a mark of at least 110/150
ELEC210 | Introduction to Electrical Engineering Design | 10 | 1 | MATH122
ELEC220 | Electrical Circuits | 10 | 1 | ELEC130 and MATH122
ELEC230 | Advanced Mathematics II | 10 | 2 | MATH122
MATH201 | Multivariable Calculus | 5 | 1 | MATH122
MATH203 | Ordinary Differential Equations I | 5 | 1 | MATH122
ELEC310 | Signals and Systems | 10 | 2 | ELEC170
ELEC370 | Computer Engineering II | 10 | 2 | MATH122 and MATH201
MATH292 | Engineering Mathematics II | 10 | 2 | MATH122 and MATH201
MECH202 | Dynamics | 5 | 2 | MATH122
MECH203 | Heat Transfer | 5 | 2 | MATH122

**Transition Arrangements**

Students should refer to the Bachelor of Engineering (Electrical) entry for information about relevant transition arrangements. Please discuss your academic program with the Course Coordinator if any concerns are raised.

For a complete list of Mathematics subjects refer to single course entry for Bachelor of Mathematics.

For complete list of approved electives refer to single course entry for Bachelor of Engineering (Electrical).
Bachelor of Engineering (Environmental)

Award Abbreviation: BE

The Bachelor of Engineering (Environmental) is offered by the Faculty of Engineering. This degree equips students to apply engineering principles to the problems of human interaction with the environment. The realisation that many developments of modern society have adverse environmental effects requires engineers to become experts in assessing and modelling the potential damage and long-term problems created by the design, construction and operation of a project.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information, articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ourcourse/creditcradindex.htm.

Course Structure

The environmental engineering course is a four year program comprising 320 credit points in which students complete core subjects in mathematics, physics, fluid mechanics, environmental engineering, industrial process principles, chemistry and geotechnical investigation. In third and fourth years students undertake case studies and the design and analysis of realistic projects. Throughout the course, theoretical studies are complemented by practical laboratory and field exercises. In some subjects, students will work in groups and with practising engineers. Students will have the opportunity to undertake an industry related project in their final year of study and must also complete 12 weeks of industrial experience throughout the course.

Subject Code  | Subject Name          | Credit Points | Semester |
-------------|-----------------------|---------------|----------|
CHEM101      | Introductory Chemistry I | 10            | 1        |
CIV112       | Mechanics and Materials| 10            | 1        |
Mathematics 111 * |          | 10            | 1        |
SURV111      | Surveying II          | 10            | 1        |
CHEM112      | Introductory Chemistry II | 10           | 2        |
CIV113       | Environmental Fluid Mechanics | 10 | 2 |
MATH112      | Mathematics 112 * |          | 1        |
MECH108      | Engineering Computing I | 10            | 2        |
* MATH121 and MATH122 may replace MATH111 and MATH112.

Core

The last three years of the program are presented in four strands. The student must complete one of these strands to meet the requirements of the degree. The following is the core of these four strands:

Subject Code  | Subject Name          | Credit Points | Semester |
-------------|-----------------------|---------------|----------|
BIOC121      | Introduction to Cell and Molecular Biology | 10            | 1        |
CHEM111      | Environmental Chemistry I | 10            | 1        |
MATH203      | Ordinary Differential Equations I | 5             | 1        |
MATH210      | Multivariable Calculus   | 5             | 1        |
ENVI105      | Engineering Computations and Probability | 10            | 2        |
SUSC105      | Spatial Data Systems and Remote Sensing | 10            | 2        |

Strands

Within the core program of the last three years, four strands are offered in the form of six 10 credit point strands electives. The student must complete one of these strands to meet the requirements of the degree. The following lists the strand requirements:

Subject Code  | Subject Name          | Year | Semester |
-------------|-----------------------|------|----------|
CIV128       | Geomechanics 1        | 2    | 1        |
RXL111       | Introductory Biology - Populations, Genetics and Evolution | 2 | 2 |
CIV251       | Fluid Mechanics       | 2    | 2        |
200 level or higher BIOC elective | 3 | 1 |
200 level or higher BIOC elective | 3 | 2 |
200 level or higher BIOC elective | 4 | 1 |

Chemical Engineering Strand

Subject Code  | Subject Name          | Year | Semester |
-------------|-----------------------|------|----------|
CIV209       | Heat Transfer and Energy Systems | 2 | 1 |
Part-Time Attendance

As far as resources allow, the first two stages of the course are timetabled to permit a single-day work release attendance pattern with some evening lectures. These stages are:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL228</td>
<td>Geotechnical Engineering</td>
<td>2</td>
<td>Year 3</td>
</tr>
<tr>
<td>BIOL111</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>2</td>
<td>Year 3</td>
</tr>
</tbody>
</table>

Transition Arrangements - Full-Time and Part-Time

The Course Program has been amended with effect from the commencement of the 2001 academic year. All students enrolled in this course or any combined degree program of which it forms part, are required to meet the requirements of the new Course Program.

For the purposes of transition to the new Course Program, the following transition program will apply for students who have completed years 1, 2 or 3 of the program in the year 2000.

Transition program for students entering Years 2, 3 and 4 in 2001

Year 2
- Semester 1: CIVL228, MATH201/203, CHEM261, BIOL112
- Semester 2: SURV265, CIVL231, CIVL205, BIOL111

Year 3
- Semester 1: CIVL333, CIVL347, CHEM261, ENV201
- Semester 2: CIVL352/581, CIVL340/SURV362, CIVL345

Year 4
- Semester 1: PHIL391, Strand Elect, CHEM261, CIVL455(15)
- Semester 2: CIVL345, CHEM261, CIVL455, CIVL460

Approved Subjects - Department of Civil, Surveying and Environmental Engineering

For a complete list of approved subjects offered by the Department of Civil, Surveying and Environmental Engineering, refer to the Bachelor of Engineering (Civil) course entry.

Schedule

Specialisations
1. The degree may be offered in one of the following specialisations:
   - Civil Engineering
   - Computer Engineering
   - Electrical Engineering
   - Environmental Engineering
   - Industrial Engineering
   - Mechanical Engineering
   - Mechatronics
   - Software Engineering
   - Telecommunications Engineering
2. For the purposes of this Schedule, the designated Department with respect to each specialisation shall be:
   - Department of Chemical Engineering:
     - Chemical Engineering
   - Department of Civil, Surveying and Environmental Engineering:
     - Civil Engineering and Environmental Engineering
   - Department of Computer Science and Software Engineering:
     - Software Engineering
   - Department of Electrical and Computer Engineering:
     - Computer Engineering
     - Electrical Engineering
     - Telecommunications Engineering
   - Department of Mechanical Engineering:
     - Industrial Engineering
     - Mechanical Engineering
     - Mechatronics
Qualification for the Award
3. (1) To qualify for admission to the degree a candidate shall:
(a) complete the requirements of the course program for that specialisation; and
(b) complete the industrial experience requirements as determined by the Faculty Board;
so the satisfaction of the Faculty Board.
(2) The course program for each specialisation shall consist of subjects totalling not less than 370 credit points approved by the Faculty Board on the recommendation of the Head of the designated department and include:
(a) at least 80 credit points from 100 level subjects;
(b) at least 60 credit points from 200 level subjects; and
(c) at least 100 credit points from 300 or 400 level subjects of which at least 40 credit points must be from 400 level subjects.

Grading of the Degree
4. (1) The degree shall be conferred at an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.
(2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division I and Division II.

Enrolment
5. A candidate may not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board for the particular specialisation.

Credit
6. Credit may be granted for up to 160 credit points except that a candidate may be granted such credit as the Faculty Board determines for subjects completed in the University which have not already been counted towards an award.

Transfer Between Specialisations
7. The Faculty Board may make conditions with respect to the transfer of candidature from one specialisation in the degree to another.

Additional Specialisations
8. (1) A person who has satisfied the requirements for admission to the degree in any other specialisation may be admitted to any other specialisation on such conditions as the Faculty Board may prescribe. Upon completing the requirements for admission to the degree in that other specialisation, another Bachelor of Engineering degree will be conferred.
(2) A candidate may complete the requirements of one specialisation in conjunction with another specialisation by completing a combined degree program approved by the Academic Senate and the advice of the Faculty Board. To qualify for admission to the two Engineering degrees a candidate shall satisfy the requirements for both degrees, except as may otherwise be provided.

Bachelor of Engineering (Environmental)/Bachelor of Arts

The Bachelor of Engineering (Environmental)/Bachelor of Arts combined degree program is offered by the Faculty of Engineering and the Faculty of Arts and Social Science. The program provides students with an opportunity to undertake concurrent study and complete two awards. In general, it offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information visit articulation arrangements please see the University's website, at http://www.newcastle.edu.au/schools/tafefirst/creditinfo.html

Program Structure
The environmental engineering and arts combined degree program comprises 420 credit points. To meet the current requirements of the Engineering degree you must complete the program of study below. Within this program students complete 12 weeks of industrial experience throughout the course, and have the opportunity to undertake an industry-related project in the final year.

To meet the current requirements for the Bachelor of Arts component of the degree you must complete a minimum of 100 credit points of Arts Group A subjects including a major sequence of study. To complete a major sequence of study you must complete at least 30 credit points at 200 level and 40 credit points at 300 level, in one area of study chosen from Group A disciplines. Major areas of study available are: Aboriginal Studies, Classics, Classical Civilisation, Cultural Studies, Greek, Latin, Sanskrit, Drama, Economics, English, Film Studies, Gender Studies, Geography, History, Leisure and Tourism Studies, Linguistics, Mathematics, Modern Languages, Philosophy, Politics, Psychology, Religious Studies, Sociology and Anthropology. In choosing your major sequence of study you are advised to check any assumed knowledge at 100 level for your preferred subjects. For details, refer to the list of Approved Subjects for the Bachelor of Arts entry.
Strands

Within the core program of the last four years, four strands are offered in the form of six 10 credit point strand electives. The student must complete one of these strands to meet the requirements of the environmental engineering degree. The following lists the strand requirements:

**Subject Code** | **Subject Name** | **Year** | **Semester**
---|---|---|---
CIVL228 | Geomechanics 1 | 2 | 1
BIOI1111 | Introductory Biology - Populations, Genetics and Evolution | 2 | 2
CIVL231 | Fluid Mechanics | 2 | 2
 | 200 level or higher BIOL elective | 3 | 1
 | 200 level or higher BIOL elective | 3 | 2
 | 200 level or higher BIOL elective | 4 | 1

**Chemistry Strand**

CIVL228 | Geomechanics 1 | 2 | 1
BIOI1111 | Introductory Biology - Populations, Genetics and Evolution | 2 | 1
CIVL231 | Fluid Mechanics | 2 | 2
 | 200 level or higher CHEM elective | 3 | 1
CHEM361 | Environmental Chemistry II | 3 | 2
 | 200 level or higher CHEM elective | 4 | 1

**Chemical Engineering Strand**

CHEE269 | Heat Transfer and Energy Systems | 2 | 1
BIOL209 | Microbial Biology | 2 | 2
CHEE270 | Mass Transfer Processes | 2 | 2
CHEE374 | Separation Processes and Particle Technology | 3 | 1
CHEE373 | Modelling and Separation Processes | 3 | 2
CIVL228 | Geomechanics 1 | 4 | 1

**Geotechnical Engineering Strand**

CIVL228 | Geomechanics 1 | 2 | 1
CIVL238 | Geomechanics 2 | 3 | 1
BIOI1111 | Introductory Biology - Populations, Genetics and Evolution | 2 | 1
CIVL231 | Fluid Mechanics | 2 | 2
CIVC383 | Stress and Finite Element Analysis | 3 | 2
CIVC420 | Geotechnical Engineering | 4 | 1

**Total 420 Credit Points**

1. BIOI101 Introduction to Cell and Molecular Biology may be taken in lieu of BIOI111.

For a list of approved biology or chemistry subjects, refer to the course entry for the Bachelor of Science.

**Transition Arrangements - Full-Time and Part-Time**

The Course Program has been amended with effect from the commencement of the 2001 academic year. Students affected by this amendment to the Course Program are advised to consult with their course coordinator.

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**Bachelor of Engineering (Environmental)/Bachelor of Science**

**Award Abbreviations:** BE, BSc

The Bachelor of Engineering (Environmental)/Bachelor of Science combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oua/tafecred/index.htm

**Course Structure**

The Bachelor of Engineering (Environmental)/Bachelor of Science combined degree program comprises subjects with a total value of 400 credit points. To meet the current requirements of this combined degree program students must complete the program of study set out below. Students must also complete 12 weeks of industrial experience throughout their course. They will have the opportunity to undertake an industry related engineering project in their final year of study.

To meet the current requirements of the Bachelor of Science degree students must complete the program of study set out below, including a major sequence of study in Biology or Chemistry. A major sequence of study comprises 20 credit points at 100 level, 30 credit points at 200 level and 40 credit points at 300 level.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics based on year 2001 course requirements. It may be varied as a result of future changes in course requirements or by the agreement of the Deans of both faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

**Subject Code** | **Subject Name** | **Credit Points** | **Semester**
---|---|---|---
CIVL101 | Introductory Chemistry | 10 | 1
CHEM112 | Mechanics and Materials | 10 | 1
MATH111 | Mathematics 111* | 10 | 1
ENGG11 | Surveying I | 10 | 1
CHEM102 | Introductory Chemistry II | 10 | 2
CHE212 | Environmental Fluid Mechanics | 10 | 2
MATH112 | Mathematics 112* | 10 | 2
ENGG118 | Engineering Computing I | 10 | 2
* MATH111 and MATH112 may replace MATH111 and MATH112.

**Year 2 (80 credit points)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
</table>
| BIOI111 | Introductory Biology - Ecosystems and Communities | 10 | 2
| CHEM111 | Environmental Chemistry | 10 | 1
| GEOM111 | Geomathematics | 10 | 1
| MATH103 | Ordinary Differential Equations | 5 | 1
| MATH104 | Multivariable Calculus | 5 | 1
| BIOL111 | Introductory Biology - Populations, Genetics and Evolution | 10 | 1
| CIVL231 | Fluid Mechanics | 10 | 2
| CHEM206 | Engineering Computation and Probability | 10 | 2
| IS09055 | Spatial Data Systems and Remote Sensing | 10 | 2

**Year 3 (80 credit points)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
</table>
| CHEM10 | Hydrology | 10 | 1
| CHEM137 | 200 level or Higher BIOL elective | 10 | 1
| CHEM138 | Contaminant Hydrogeology | 10 | 1
Environmental i from - I

- 1 I

A major sequence study in Year 5.

Year 5 (80 credit points)

- 200 level or higher BIO or CHEM elective **

Year 4 (80 credit points)

- 200 level or higher BIO or CHEM elective **

PHIL291 Technology and Human Values

- 200 level or higher BIO or CHEM elective **

CHE549 Environmental Engineering Design 1

Project and Asset Management

- 200 level or higher BIO or CHEM elective **

Year 5 (80 credit points)

- 200 level or higher BIO or CHEM elective **

Science 300 level subjects

- 200 level or higher BIO or CHEM elective **

Science 100, 200 or 300 level subjects

** At least 20 credit points must be taken from either 200 level Biology or Chemistry in order to complete a major sequence of study in Year 5. A major sequence of study is 20cps at 100 level, 30cps at 200 level and 40cps at 300 level in either Biology or Chemistry. In selecting subjects students are advised to carefully consider the prior assumed knowledge for their proposed Year 5 subject choices.

Total of 400 Credit Points

For a list of approved Biology and Chemistry subjects, refer to the course entry for the Bachelor of Science.

Transition Arrangements - Full-Time and Part-Time

The Course Program has been amended with effect from the commencement of the 2001 academic year. Students affected by changes to the Course Program are advised to consult with their course coordinator.

Bachelor of Engineering (Mechanical)

Award Abbreviation: BE

The Bachelor of Engineering (Mechanical) is offered by the Faculty of Engineering. This course is concerned with the design, manufacture, operation and maintenance of mechanical devices, equipment and systems. Students gain the skills needed to improve the safety and energy efficiency of machines that support industry and society. There is also a strong emphasis on the development of computer skills which are essential as many industries have automated the technologically advanced manufacturing processes.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For information and articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/oas/au/tafe/index.htm.

Course Structure

The mechanical engineering course is a 4 year program comprising 320 credit points in which students complete core subjects in engineering science, design, computing and management. In third year students are able to select from a wide range of electives in areas such as aeronautics, bulk solids handling, advanced materials and manufacturing, design and renewable energy. Throughout the course, theoretical studies are complemented by practical laboratory and field exercises. Students will have the opportunity to undertake an industry related project in their final year of study and must also complete 12 weeks of industrial experience throughout the course.

Course Program

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH135</td>
<td>Introductory Mechanics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH111</td>
<td>Mathematics 111</td>
<td>10</td>
<td>1</td>
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<tr>
<td>ELECT130</td>
<td>Electrical Engineering 1</td>
<td>10</td>
<td>1</td>
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<tr>
<td>MECH104</td>
<td>Introduction to Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>PHYS112</td>
<td>Physics for Engineers and Scientists II</td>
<td>10</td>
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</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH208</td>
<td>Engineering Computations 1</td>
<td>10</td>
<td>2</td>
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<tr>
<td>MECH222</td>
<td>Computer Aided Engineering</td>
<td>10</td>
<td>2</td>
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<tr>
<td>MECH219</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MECH220</td>
<td>Ordinary Differential Equations 1</td>
<td>5</td>
<td>1</td>
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<tr>
<td>MECH225</td>
<td>Materials Science &amp; Engineering</td>
<td>10</td>
<td>2</td>
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<tr>
<td>MECH242</td>
<td>Sensors and Actuators</td>
<td>10</td>
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<tr>
<td>MECH247</td>
<td>Engineering Mechanics</td>
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<td>MECH248</td>
<td>Mechanical Engineering Design 1</td>
<td>10</td>
<td>2</td>
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<td>MECH249</td>
<td>Engineering Computations 2</td>
<td>10</td>
<td>2</td>
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<td>MECH255</td>
<td>Dynamics 2</td>
<td>10</td>
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<tr>
<td>MECH271</td>
<td>Thermodynamics 1</td>
<td>5</td>
<td>2</td>
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<td>MECH272</td>
<td>Heat Transfer</td>
<td>5</td>
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<table>
<thead>
<tr>
<th>Year 3 (80 credit points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH116</td>
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<td>MECH120</td>
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<td>MECH144</td>
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<td>MECH250</td>
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<td>MECH252</td>
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<td>MECH253</td>
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<table>
<thead>
<tr>
<th>Year 4 (60 credit points)</th>
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</thead>
<tbody>
<tr>
<td>MECH283</td>
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<td>MECH284</td>
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<td>MECH290</td>
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<tr>
<td>MECH291</td>
</tr>
<tr>
<td>MECH290</td>
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</tbody>
</table>

Part-Time Attendance

All candidates for the degree must complete the requirements of the Course Program as detailed. All or part of this program may be completed by part-time attendance. Part-time students will normally take 2 years for each equivalent full-time year. As far as resources allow, the first two stages of the course are timeTabled to permit a single-day work release attendance pattern with some evening lectures. These stages are:
<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
<th>Concurrent Knowledge [CK]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH111</td>
<td>Mathematics I</td>
<td>10</td>
<td>1</td>
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<td></td>
</tr>
<tr>
<td>MECH104</td>
<td>Introduction to Engineering</td>
<td>10</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH108</td>
<td>Engineering Computations</td>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS112</td>
<td>Physics for Engineers and Scientists</td>
<td>10</td>
<td>2</td>
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</table>

**Stage 2**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
<th>Concurrent Knowledge [CK]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH135</td>
<td>Introductory Mechanics</td>
<td>10</td>
<td>1</td>
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<tr>
<td>ELEC120</td>
<td>Electrical Engineering I</td>
<td>10</td>
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<tr>
<td>MECH122</td>
<td>Computer Aided Engineering</td>
<td>10</td>
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<tr>
<td>MATH112</td>
<td>Mathematics II</td>
<td>10</td>
<td>2</td>
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</tr>
</tbody>
</table>

After completion of the above program attendance will be required at various times during the day depending upon the subjects in which the candidate enrolled and the requirements of the timetable. Full-time study is recommended after Stage 2.

**Transition Arrangement - Full-time and Part-time**

The course program has been amended with effect from the commencement of the 2001 academic year. For the purposes of transferring to the new Course Program, the following equivalence between previously completed subjects and new subjects will apply.

- MECH135 replaces CIVL111 and MECH131.
- MECH125 replaces MECH121 and MECH103.

Other new subjects are expanded versions of previous subjects. Students are advised to consult the Course Coordinator if they have already completed subjects which no longer appear in the Course Program to determine the transition arrangements to be followed.

**Approved Subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
<th>Concurrent Knowledge [CK]</th>
</tr>
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<tbody>
<tr>
<td>MECH102</td>
<td>Introduction to Engineering Computing</td>
<td>5</td>
<td>2</td>
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<td>MECH108</td>
<td>Engineering Computations</td>
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<tr>
<td>MECH110</td>
<td>Engineering Chemistry</td>
<td>5</td>
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<td>MECH111</td>
<td>Engineering Drawing</td>
<td>5</td>
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<tr>
<td>MECH121</td>
<td>Materials I</td>
<td>5</td>
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<tr>
<td>MECH131</td>
<td>Dynamics I</td>
<td>5</td>
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<td>MECH211</td>
<td>Mechanical Engineering Design</td>
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<td>MECH225</td>
<td>Materials Science &amp; Engineering</td>
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<td>1</td>
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<tr>
<td>MECH233</td>
<td>Dynamics</td>
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<td>MECH376</td>
<td>Bulk Materials Handling and Transportation</td>
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</table>

MECH324* Advanced Materials Engineering 10 1 CK: MECH340
MECH444* Flight Mechanics 2 2 MECH350, CK: MECH325
MECH446* Compressible Aerodynamics 2 2 MECH350, CK: MECH271, MECH352
MECH465* Renewable Energy Systems 10 2 MECH350
MECH475* Fluid Machines 10 1 CK: MECH325
MECH485* Computer Aided Engineering & Manufacturing 10 2 CK: MECH271, MECH320
MECH487* Manufacturing Engineering 5 1

MECH482* Engineering Economics I 5 1 Completion of 160 credit points or Permission of Head of Department

MECH503* Engineering Economics Analysis 10 1 MECH488
MECH504* Mechanical Engineering Project Seminar 30 1, 2 or 3 Completion of 220 credit points
MECH506* Computer Simulation and Modelling 10 2 MECH488
MECH508* Mechanical Engineering Project Seminar 30 1, 2 or 3 Completion of 220 credit points
MECH509* Project Directed Reading 5 2 Permission of Head of Department
MECH511* Project Directed Reading 5 1 Permission of Head of Department

MECH509* Project Directed Reading 10 1, 2 or full year Permission of Head of Department

* Means of graduate subjects. Not all subjects will be offered in any one year. Availability will depend upon anticipated enrollments and should be verified with the Department Office.

**Schedule**

**Specialisations**

1. The degree may be offered in one of the following specialisations:
   - Civil Engineering;
   - Computer Engineering;
   - Electrical Engineering;
   - Industrial Engineering;
   - Mechanical Engineering;
   - Mechatronics;
   - Software Engineering;
   - Telecommunications Engineering;
   - Telecommunications Engineering.

2. For the purposes of this Schedule, the designated Department with respect to each specialisation shall be:
   - Department of Chemical Engineering:
     - Chemical Engineering;
   - Department of Civil, Surveying and Environmental Engineering:
     - Civil Engineering and Environmental Engineering;
   - Department of Computer Science and Software Engineering:
     - Software Engineering;
   - Department of Electrical and Computer Engineering:
     - Computer Engineering;
   - Department of Electrical Engineering and Telecommunications Engineering:
     - Electrical Engineering and Telecommunications Engineering;
   - Department of Mechanical Engineering:
     - Industrial Engineering;
   - Mechanical Engineering and Mechatronics.
Award
 Bachelor of E (Mechanical) Bachelor of Arts

Abbreviations: BE, BA

Grading of the Degree

1. To qualify for admission to the degree a candidate shall:
   a. complete the requirements of the course program for that specialisation;
   b. complete the industrial experience requirements as determined by the Faculty Board;
   c. satisfy the satisfactory Faculty Board.

2. The course program for each specialisation shall consist of subjects totalling not less than 320 credit points approved by the Faculty Board on the recommendation of the Head of the designated department and include:
   a. at least 80 credit points from 100 level subjects;
   b. at least 80 credit points from 200 level subjects, and
   c. at least 100 credit points from 300 or 400 level subjects of which at least 40 credit points must be from 400 level subjects.

Grading of the Degree

4. (1) The degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.
   a. There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division I and Division II.

Enrolment

5. A candidate may not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board for the particular specialisation.

Credit

6. Credit may be granted for up to 160 credit points except that a candidate may be granted such credit as the Faculty Board determines for subjects completed in the University which have not already been counted towards an award.

Transfer Between Specialisations

7. The Faculty Board may make qualifications with respect to the transfer of candidature from one specialisation in the degree to another.

Additional Specialisations

8. (1) A person who has satisfied the requirements for admission to the degree in one specialisation may be admitted to candidature in any other specialisation on such conditions as the Faculty Board may prescribe. Upon completing the requirements for admission to the degree in that other specialisation, another Bachelor of Engineering degree will be conferred.
   (2) A candidate may complete the requirements of one specialisation in conjunction with another specialisation by completing a combined degree program approved by the Academic Senate on the advice of the Faculty Board. To qualify for admission to the two Engineering degrees a candidate shall satisfy the requirements for both degrees, except as may be otherwise provided.

Bachelor of Engineering (Mechanical)/Bachelor of Arts

The Bachelor of Engineering (Mechanical)/Bachelor of Arts combined degree program is offered by the Faculty of Engineering and the Faculty of Arts and Social Sciences. This program provides students with an opportunity to undertake concurrent study and complete two degrees in the same field. It offers greater breadth of learning, enhancing the academic and professional qualifications gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer credits with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/tafecn/tafecnindex.htm

Program Structure

The mechanical engineering and arts combined degree program comprises 420 credit points. To meet the current requirements of the Engineering component of the degree students must complete the program of study below. Throughout the course they must also complete 12 weeks of industrial experience, and have the opportunity to undertake an industry related project in their final year of study.

To meet the current requirements for the Bachelor of Arts component of the degree you must complete a minimum of 110 credit points of Arts Group A subjects including a major sequence of study. To complete a major sequence of study you must complete at least 30 credit points at 200 level and 40 credit points at 300 level, in one area of study chosen from Group A disciplines. Major areas of study available are: Aboriginal Studies, Classics, Classical Civilisation, Cultural Studies, Greek, Latin, Sanskrit, Drama, Economics, English, Film Studies, Gender Studies, Geography, History, Leisure and Tourism Studies, Linguistics, Mathematics, Modern Languages, Philosophy, Politics, Psychology, Religious Studies, Sociology and Anthropology. In choosing your major sequence of study you are required to complete at least 100 points in your preferred subjects. For details, refer to the list of approved subjects in the Bachelor of Arts entry.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Arts and Social Science based on 2001 course requirements. It may be varied as a result of future changes in the requirements of the course.

Students enrolled in a combined degree program are advised to consult the relevant Faculty offices regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>MECH135</td>
<td>Introductory Mechanics</td>
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<td>MECH111</td>
<td>Mathematics 111*</td>
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<td>MECH041</td>
<td>Introduction to Engineering</td>
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<tr>
<td>MECH122</td>
<td>Computer Aided Engineering</td>
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<tr>
<td>MECH112</td>
<td>Mathematics 112*</td>
<td>10</td>
<td>2</td>
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<tr>
<td>MECH117</td>
<td>Physics for Engineers and Scientists II</td>
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<tr>
<td>ENGI110</td>
<td>100 Level Arts Group A Subjects</td>
<td>20</td>
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* MATH111 and MATH122 may replace MATH111 and MATH112.

<table>
<thead>
<tr>
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<th>Subject Name</th>
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<th>Semester</th>
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<td>ENG103</td>
<td>Ordinary Differential Equations</td>
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<td>Materials Science &amp; Engineering</td>
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<td>Engineering Mechanics</td>
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<td>ENG107</td>
<td>Engineering Computations</td>
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<td>Mechanical Engineering Design</td>
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<th>Semester</th>
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<td>ELEC102</td>
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<td>Fluid Mechanics 1</td>
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<td>1</td>
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<td>Mechanics of Granular Materials</td>
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<td>ELEC111</td>
<td>Engineering Computations II</td>
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<td>Thermodynamics</td>
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<td>ELEC113</td>
<td>Materials Science &amp; Engineering II</td>
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<td>ENG112</td>
<td>Technology and Human Values</td>
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<td>ENG113</td>
<td>Vibrations, Acoustics &amp; Condition Monitoring</td>
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<td>Applied Engineering Thermodynamics</td>
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<td>ENG113</td>
<td>Automatic Control</td>
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<td>ENG114</td>
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<tr>
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<td>300 Level Arts Group A Subjects</td>
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</table>
The Bachelor of Engineering (Mechanical)/Bachelor of Business combined degree program is offered by the Faculty of Engineering and the Faculty of Economics and Commerce. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

### Course Structure

The mechanical engineering and business combined program comprises 430 credit points. To meet the current requirements for the Bachelor of Business component of the degree, students must complete 160 credit points in Economics and Commerce subjects, that comprise all Core Subjects (listed in the table of Compulsory Core Subjects below), and a major sequence prescribed for the degree. There are four major sequences available: International Business, Industrial Human Resource Management, Management and Marketing. A major sequence of study consists of at least 30 credit points at 200 level and 40 credit points at 300 level in a prescribed subject area. For details of subjects, refer to the list below and to the Faculty of Economics and Commerce website for approved subjects in the Bachelor of Business entry.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic progress.

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<td>Mathematics 111</td>
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<td>MECH111</td>
<td>Engineering Drawing</td>
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<td>Introduction to Engineering Computing</td>
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<td>MATH121 and MATH122 may replace MATH111 and MATH112.</td>
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**Compulsory Core Subjects for Bachelor of Business**

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<td>ACCT201</td>
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<td>Engineering Mechanics</td>
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<td>ENGR271</td>
<td>Thermodynamics 1</td>
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<td>ELECT130</td>
<td>Electrical Engineering 1</td>
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<tr>
<td>MATH102</td>
<td>Ordinary Differential Equations 1</td>
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<td>ACF110</td>
<td>Financial Management for Business</td>
<td>10</td>
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<td>MECH103</td>
<td>Engineering Chemistry</td>
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**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website at [http://www.newcastle.edu.au/services/units/academic/credit/index.htm](http://www.newcastle.edu.au/services/units/academic/credit/index.htm).

**Course Requirements**

- To meet the current requirements for the Bachelor of Business component of the degree, students must complete 160 credit points in Economics and Commerce subjects, that comprise all Core Subjects (listed in the table of Compulsory Core Subjects below), and a major sequence prescribed for the degree. There are four major sequences available: International Business, Industrial Human Resource Management, Management and Marketing. A major sequence of study consists of at least 30 credit points at 200 level and 40 credit points at 300 level in a prescribed subject area. For details of subjects, refer to the list below and to the Faculty of Economics and Commerce website for approved subjects in the Bachelor of Business entry.

- Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic progress.

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<td>Engineering Drawing</td>
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<td>MATH112</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MECH102</td>
<td>Introduction to Engineering Computing</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>MECH121</td>
<td>Materials 1</td>
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<td>MECH131</td>
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<td>PHYS112</td>
<td>Physics for Engineers and Scientists II</td>
<td>10</td>
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<tr>
<td>MATH121 and MATH122 may replace MATH111 and MATH112.</td>
<td></td>
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</tbody>
</table>
Bachelor of Engineering (Mechanical)/Bachelor of Mathematics

Award Abbreviations: BE, BMath

For continuing students only.

The Bachelor of Engineering (Mechanical)/Bachelor of Mathematics combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/tafe/tafecredit/index.htm

Program Structure

The Bachelor of Engineering (Mechanical)/Bachelor of Mathematics combined degree program comprises subjects with a total value of 400 credit points. To meet the current requirements of this combined degree program students must complete the program of study set out below. Students must also complete 12 weeks of industrial experience throughout the course. They will have the opportunity to undertake an industry-related project in their final year of study in the engineering degree.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics based on 2001 course requirements. It may be varied as a result of future changes in the requirements of the course, or by the agreement of the Deans of both Faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

Subject Code | Subject Name | Credit Points | Semester
--- | --- | --- | ---
ELEC130 | Electrical Engineering I | 15 | 1
MATH121 | Advanced Mathematics 121 | 10 | 1
MECH104 | Introduction to Engineering | 10 | 1
PHYS113 | Advanced Physics for Scientists and Engineers I | 10 | 1
MECH212 | Computer Aided Engineering | 10 | 2
MATH222 | Advanced Mathematics 122 | 10 | 2
MECH108 | Engineering Computations I | 10 | 2
PHYS114 | Advanced Physics for Scientists and Engineers II | 10 | 2

Bachelor of Engineering (Mechanical)/Bachelor of Science

Award Abbreviations: BE, BSc

The Bachelor of Engineering (Mechanical)/Bachelor of Science combined degree program is offered by the Faculty of Engineering and the Faculty of Science and Mathematics. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognises the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/tafe/tafecredit/index.htm

Program Structure

The Bachelor of Engineering (Mechanical)/Bachelor of Science combined degree program comprises subjects with a total value of 400 credit points. To meet the current requirements of this combined degree program students must complete the program of study set out below. Throughout their course students must complete 12 weeks of industrial experience. They will have the opportunity to undertake an industry-related engineering project in their final year of study.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Science and Mathematics based on 2001 course requirements. It may be varied as a result of future changes in course requirements or by the agreement of the Deans of both Faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

Subject Code | Subject Name | Credit Points | Semester
--- | --- | --- | ---
PHYS113 | Advanced Physics for Scientists and Engineers I | 10 | 1
ELEC130 | Electrical Engineering I | 10 | 1
MATH121 | Advanced Mathematics 121 | 10 | 1
MECH104 | Introduction to Engineering | 10 | 1
MECH212 | Computer Aided Engineering | 10 | 2
MATH222 | Advanced Mathematics 122 | 10 | 2
MECH108 | Engineering Computations I | 10 | 2
PHYS114 | Advanced Physics for Scientists and Engineers II | 10 | 2

Subject Code | Subject Name | Credit Points | Semester
--- | --- | --- | ---
ELEC130 | Electrical Engineering I | 10 | 1
MATH121 | Advanced Mathematics 121 | 10 | 1
MECH104 | Introduction to Engineering | 10 | 1
MECH212 | Computer Aided Engineering | 10 | 2
MATH222 | Advanced Mathematics 122 | 10 | 2
MECH108 | Engineering Computations I | 10 | 2
PHYS114 | Advanced Physics for Scientists and Engineers II | 10 | 2

Subject Code | Subject Name | Credit Points | Semester
--- | --- | --- | ---
ELEC212 | Sensors and Actuators | 10 | 1
MATH222 | Advanced Mathematics 122 | 10 | 2
MECH212 | Computer Aided Engineering | 10 | 2
MECH212 | Advanced Mathematics 122 | 10 | 2
MECH108 | Engineering Computations I | 10 | 2
PHYS114 | Advanced Physics for Scientists and Engineers II | 10 | 2

Subject Code | Subject Name | Credit Points | Semester
--- | --- | --- | ---
ELEC212 | Sensors and Actuators | 10 | 1
MATH222 | Advanced Mathematics 122 | 10 | 2
MECH212 | Computer Aided Engineering | 10 | 2
MECH212 | Advanced Mathematics 122 | 10 | 2
MECH108 | Engineering Computations I | 10 | 2
PHYS114 | Advanced Physics for Scientists and Engineers II | 10 | 2

Subject Code | Subject Name | Credit Points | Semester
--- | --- | --- | ---
ELEC212 | Sensors and Actuators | 10 | 1
Bachelor of Engineering (Mechatronics)

Award Abbreviation: BE

The Bachelor of Engineering (Mechatronics) is offered by the Faculty of Engineering. This course focuses upon the design, operation and control of intelligent machines and devices. As such, it involves the integration of elements from mechanical, electrical and computer engineering. The course recognises the need for engineering graduates to have an interdisciplinary background, with particular emphasis on the increasing demand for skills in this area.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements, please see the University's website at http://www.newcastle.edu.au/services/our/au/tafecredit/index.htm

Course Structure

The mechatronics course is a 4-year program comprising 320 credit points in which students complete core subjects from the areas of mechanical and electrical engineering. Students are also able to choose elective subjects from other disciplines such as maths, philosophy, physics and software engineering. Throughout the course, theoretical studies are complemented by practical laboratory exercises. Students will have the opportunity to undertake an industry-related project in their final year of study and must also complete 12 weeks of industrial experience throughout the course.

### Course Program

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 (16 credit points)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN105</td>
<td>Introductory Mechanics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>EN111</td>
<td>Mathematics 111</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>EN104</td>
<td>Introduction to Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>EN153</td>
<td>Electrical Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>EN144</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>EN210</td>
<td>Computer Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>EN210</td>
<td>Physics for Scientists and Engineers I</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>EN211</td>
<td>Computer Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Year 2 (30 credit points)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN205</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>EN211</td>
<td>Ordinary Differential Equations 1</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>EN242</td>
<td>Engineering Mechanics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>EN220</td>
<td>Introduction to Electronics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>EN234</td>
<td>Electrical Circuits</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>EN219</td>
<td>Mechanical Engineering Design 1</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>EN212</td>
<td>Mechanical Engineering Design 2</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>EN211</td>
<td>Computer Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Year 3 (30 credit points)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH211</td>
<td>Mechanical Engineering Economics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MECH214</td>
<td>Unspecified Elective</td>
<td>5</td>
<td>1, 2</td>
</tr>
<tr>
<td>PHYS214</td>
<td>Mechanical Engineering Major</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>PHYS214</td>
<td>Atomic and Molecular Physics</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>PHYS214</td>
<td>Nuclear Physics</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>PHYS214</td>
<td>Solid State and Surface Physics</td>
<td>10</td>
<td>1, 2</td>
</tr>
<tr>
<td>PHYS214</td>
<td>Research Project</td>
<td>10</td>
<td>1, 2</td>
</tr>
<tr>
<td>PHYS214</td>
<td>Statistical Physics</td>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

300 level Physics subjects taken in Years 3 and 4 may need to be rearranged to fit the timetable.

For a list of approved mechanical engineering subjects, refer to the course entry for the Bachelor of Engineering (Mechanical). For a list of approved science subjects, refer to the course entry for the Bachelor of Science.
ELEC250
ELEC323
MECH220
MECH383
ELEC383
PHL591

Approved Electives B
ELEC250 Introduction to Telecommunications 10 2
MECH458 Computer Aided Engineering & Manufacturing 10 2
MECH489 Computer Simulation and Modelling 10 2
Any other 400 level subject from the Electrical, Computer or Mechanical Engineering schedule for which assumed knowledge is adequate.

Part-Time Attendance

Students wishing to undertake the Mechatronics Course on a part-time basis are advised to contact the Course Coordinator for details on Stages 1 and 2 of the part-time program.

Schedule

Specialisations
1. The degree may be offered in one of the following specialisations:
   - Civil Engineering;
   - Computer Engineering;
   - Electrical Engineering;
   - Environmental Engineering;
   - Industrial Engineering;
   - Mechanical Engineering;
   - Mechatronics;
   - Software Engineering;
   - Telecommunications Engineering.

2. For the purposes of this Schedule, the designated Department with respect to each specialisation shall be:
   - Department of Chemical Engineering;
   - Department of Civil, Surveying and Environmental Engineering;
   - Department of Computer Science and Software Engineering;
   - Department of Electrical and Computer Engineering;
   - Department of Mechanical Engineering;

For a list of approved Management subjects, refer to the course entry for the Bachelor of Business.

Qualification for the Award

1. To qualify for admission to the degree a candidate shall:
   - complete the requirements of the course program for that specialisation; and
   - complete the industrial experience requirements as determined by the Faculty Board;
   - to the satisfaction of the Faculty Board.

2. The course program for each specialisation shall consist of subjects totalling not less than 370 credit points approved by the Faculty Board on the recommendation of the Head of the designated department and include:
   - at least 80 credit points from 100 level subjects;
   - at least 60 credit points from 200 level subjects; and
   - at least 100 credit points from 300 or 400 level subjects of which at least 40 credit points must be from 400 level subjects.

Grading of the Degree

4. (i) The degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.

5. There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division 1 and Division 2.

Credit

5. Credit may be granted for up to 160 credit points except that a candidate may be granted such credit as the Faculty Board may determine for subjects completed in the University which have not already been counted towards an award.

Transfer Between Specialisations

1. The Faculty Board, may make conditions with respect to the transfer of candidate from one specialisation to another.

Additional Specialisations

8. (c) A person who has satisfied the requirements for admission to the degree in one specialisation may be admitted to candidature in any other specialisation on such conditions as the Faculty Board may prescribe. Upon completing the requirements for admission to the degree in that other specialisation, another Bachelor of Engineering degree will be conferred.

9. A candidate may complete the requirements of one specialisation in conjunction with another specialisation by completing a combined degree program approved by the Academic Senate on the advice of the Faculty Board. To qualify for admission to the two Engineering degrees a candidate shall satisfy the requirements for both degrees, except as may be otherwise provided.

Bachelor of Engineering (Mining Transfer Program)

Award Abbreviation: BE

The Bachelor of Engineering (Mining Transfer Program) is offered by the Faculty of Engineering in conjunction with the University of New South Wales and the University of Wollongong. This course gives students a sound understanding of fundamental civil and mining engineering concepts in preparation for a career as a professional engineer. This course develops the skills needed to design, construct and manage mining projects and the associated infrastructure.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about individual arrangements please see the University's website at https://www.newcastle.edu.au/services/course/tacecred/index.htm

Course Structure

The mining engineering course is a 4 year program in which students complete the first two years of the Bachelor of Engineering (Civil) program at the University of Newcastle. In this period, core subjects such as mathematics, physics, introductory engineering, mining, computer programming, and the mechanics and properties of solids and fluids are studied. The remaining two years of the program are completed at either the University of New South Wales or the University of Wollongong.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH1010</td>
<td>Mathematics I</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH1020</td>
<td>Mathematics II</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH3310</td>
<td>Advanced Mathematics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH3320</td>
<td>Engineering Mathematics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH3330</td>
<td>Fluid Mechanics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH3340</td>
<td>Solid Mechanics</td>
<td>10</td>
<td>1</td>
</tr>
</tbody>
</table>
**Bachelor of Engineering (Software)**

**Award Abbreviation:** BE

The Bachelor of Engineering (Software) course is offered by the Faculty of Engineering. This course is concerned with designing large, complex software systems which support banks, businesses, factories, transport systems, homes, educational institutions, etc. Students gain knowledge of the techniques for analysis, design, implementation and enhancement of systems. Software engineering is closely related to computer science, however, is directed more towards the development of software systems, rather than the theories and principles of computing.

**TAFE Credit**

Credit transfers agreements with TAFE NSW and other education providers are under continuous negotiation. For information regarding articulation arrangements please see the University's website at http://www.newcastle.edu.au/newweb/curriculum/announcements.html.

**Course Structure**

The software engineering course is a 4-year program comprising 320 credit points. In the final year of studies, students are required to complete one of the following strands - software engineering, general engineering, computer science or management. Students must also complete 12 weeks of industrial experience in the final year of their course.

**Course Program**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENG1111</td>
<td>Introduction to Software Engineering 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH1112</td>
<td>Mathematics 111</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH1112</td>
<td>Discrete Mathematics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>ELECT180</td>
<td>Introduction to Engineering Practice</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>ELECT170</td>
<td>Computer Engineering 1</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH1122</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG1112</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

**Transition Arrangements - Full-Time and Part-Time**

The course program has been amended with effect from the commencement of the 2001 academic year. Further transition arrangements consult Bachelor of Engineering (Civil).

For information regarding assumed knowledge for subjects, refer to Bachelor of Engineering (Civil). Students who wish to vary the course program are advised to consult with the relevant Course Coordinator at either University of New South Wales or the University of Wollongong.

---

**Course Program**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURV111</td>
<td>Surveying 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIVL132</td>
<td>Environmental Fluid Mechanics</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MECH108</td>
<td>Engineering Computing 1</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SURV112</td>
<td>Surveying 2</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

* MATH112 and MATH112 may replace MATH111 and MATH112.

**HSC Physics**

Students with good academic standing in HSC Physics may substitute MATH111 and MATH112.

**Head of Department, Civil, Surveying and Environmental Engineering.**

**Total of 160 credit points.**

**Year 2 (80 credit points)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL213</td>
<td>Theory of Structures 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIVL228</td>
<td>Geomechanics 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH213</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MATH203</td>
<td>Ordinary Differential Equations 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>PHIL391</td>
<td>Technology and Human Values</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIVL205</td>
<td>Engineering Computations and Probability</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIVL224</td>
<td>Civil Engineering Materials</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Fluid Mechanics</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

**Year 2 (60 credit points)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL231</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

**Year 3 (80 credit points)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL231</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>2</td>
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</tbody>
</table>

**Year 4 (80 credit points)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL231</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>2</td>
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**Course Program**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENG1111</td>
<td>Introduction to Software Engineering 1</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH1112</td>
<td>Mathematics 111</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH1112</td>
<td>Discrete Mathematics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>ELECT180</td>
<td>Introduction to Engineering Practice</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>ELECT170</td>
<td>Computer Engineering 1</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH1122</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG1112</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>
### Transition Arrangements

The following program is offered to students in Years 4 of the Bachelor of Engineering (Software) in 2001. Students are advised to discuss their academic program with the Course Coordinator if any concerns arise.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENG421</td>
<td>Software Engineering Project</td>
<td>30</td>
<td>Full year</td>
</tr>
<tr>
<td>SENG442</td>
<td>Software Architecture</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>ELEC338</td>
<td>Engineering Project Management</td>
<td>10</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td>400 level Directed Lecture</td>
<td>10</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td>300 or 400 level Directed Elective</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>ELEC350</td>
<td>may be taken as an elective in 2001</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Approved Subjects - Department of Computer Science and Software Engineering**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP105</td>
<td>Internet Communication</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>COMP107</td>
<td>Introduction to Programming and Numerical Methods</td>
<td>5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP222</td>
<td>Theory of Computation</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP223</td>
<td>Introduction to Algorithms</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>COMP224</td>
<td>Operating Systems</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP325</td>
<td>Database Systems</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>COMP326</td>
<td>Data Security</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP329</td>
<td>Compiler Design</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP331</td>
<td>Advanced Algorithms</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP332</td>
<td>Computer Graphics</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP333</td>
<td>Machine Intelligence</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>COMP411</td>
<td>Special Topic A</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>COMP412</td>
<td>Special Topic B</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>COMP413</td>
<td>Special Topic C</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>COMP414</td>
<td>Special Topic D</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>COMP425</td>
<td>Honours Project</td>
<td>30</td>
<td>Full year</td>
<td></td>
</tr>
<tr>
<td>COMP441</td>
<td>Cryptographic Techniques</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>COMP445</td>
<td>Computational Geometry</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>COMP447</td>
<td>Graph Algorithms</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

---

**Schedule**

1. The degree may be offered in one of the following specialisations:
   - Civil Engineering
   - Computer Engineering
   - Electrical Engineering
   - Environmental Engineering
   - Geodetic Engineering
   - Geotechnical Engineering
   - Mechanical Engineering
   - Mechatronics
   - Software Engineering
   - Telecommunications Engineering

2. For the purposes of the Schedule, the designated Department with respect to each specialisation shall be:
   - Department of Chemical Engineering
   - Chemical Engineering
   - Department of Civil, Surveying and Environmental Engineering
   - Civil Engineering and Environmental Engineering
   - Department of Computer Science and Software Engineering
   - Software Engineering
   - Department of Electrical and Computer Engineering
   - Computer Engineering
   - Electrical Engineering
   - Telecommunications Engineering
Bachelor of Engineering (Telecommunications)

The Bachelor of Engineering (Telecommunications) is offered by the Faculty of Engineering. The course is concerned with the design, development, and transfer of information, including voice, data, and video using various types of telecommunication networks. Telecommunications is an important and fastest growth area of information technology and has strong links with the fields of computer engineering, digital signal processing and electronics. The course recognizes the increasing demand for engineers to have skills in this area.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information on articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/course.courses.html.

Course Structure

The telecommunications course is a 4 year program comprising 320 credit points, in which students complete core subjects as well as electives from the areas of mathematics, physics, computer science and software engineering. Throughout the course, 200 level studies are complemented by practical laboratory and project work. Students will have the opportunity to undertake a related project in their final year of study and must also complete 12 weeks of industrial experience during the third and fourth years of the program will be available in 2001.

Bachelor of Engineering (Telecommunications) Award Abbreviations: BE

The Bachelor of Engineering (Telecommunications) is offered by the Faculty of Engineering. The course is concerned with the design, development, and transfer of information, including voice, data, and video using various types of telecommunication networks. Telecommunications is an important and fastest growth area of information technology and has strong links with the fields of computer engineering, digital signal processing and electronics. The course recognizes the increasing demand for engineers to have skills in this area.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information on articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/course.courses.html.

Course Structure

The telecommunications course is a 4 year program comprising 320 credit points, in which students complete core subjects as well as electives from the areas of mathematics, physics, computer science and software engineering. Throughout the course, 200 level studies are complemented by practical laboratory and project work. Students will have the opportunity to undertake a related project in their final year of study and must also complete 12 weeks of industrial experience during the third and fourth years of the program will be available in 2001.
Part-time Attendance
So far as resources allow, the first two stages of the course are timetabled to permit a single day per week of attendance and some evening lectures. The first two stages are:

<table>
<thead>
<tr>
<th>Stage</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ELECT130</td>
<td>Electrical Engineering I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH111</td>
<td>Mathematics 11*</td>
<td>10</td>
<td>1</td>
<td>2 Unit HSC Mathematics</td>
</tr>
<tr>
<td></td>
<td>ELECT170</td>
<td>Computer Engineering I</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH112</td>
<td>Mathematics 12*</td>
<td>10</td>
<td>2</td>
<td>MATH111 or MATH12</td>
</tr>
<tr>
<td>2</td>
<td>ELECT180</td>
<td>Introduction to Engineering Practice</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS113</td>
<td>Advanced physics for Scientists and Engineers I</td>
<td>10</td>
<td>1</td>
<td>HSC Physics 3 Unit HSC Mathematics with a minimum of 110/150</td>
</tr>
<tr>
<td></td>
<td>PHYS114</td>
<td>Advanced physics for Scientists and Engineers II</td>
<td>10</td>
<td>2</td>
<td>PHYS113</td>
</tr>
<tr>
<td></td>
<td>ENG110</td>
<td>Introduction to Software Engineering 1A</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

* Approved options: MATH121 and MATH122 may be taken in lieu of MATH111 and MATH112.

Students enrolling part time are advised that they may be eligible to take Industrial Experience Subjects, ELECT192-9. Further details on these subjects are available in the approved subjects list, under the Computer Engineering section of the undergraduate handbook.

Schedule

Specialisations
1. The degree may be offered in one of the following specialisations:
   - Civil Engineering;
   - Computer Engineering;
   - Electrical Engineering;
   - Environmental Engineering;
   - Industrial Engineering;
   - Mechanical Engineering;
   - Mechatronics;
   - Software Engineering;
   - Telecommunications Engineering.

2. For the purposes of this Schedule, the designated Department, with respect to each specialisation shall be:
   - Department of Chemical Engineering:
     - Chemical Engineering;
   - Department of Civil, Surveying and Environmental Engineering:
     - Civil Engineering and Environmental Engineering;
   - Department of Computer Science and Software Engineering:
     - Software Engineering;
   - Department of Electrical and Computer Engineering:
     - Computer Engineering;
     - Electrical Engineering and Telecommunications Engineering;
   - Department of Mechanical Engineering:
     - Industrial Engineering;
     - Mechanical Engineering;
     - Mechatronics.

Bachelor of Environmental Science

The Bachelor of Environmental Science is offered by the Faculty of Science and Mathematics. This degree is a science degree with a specialisation in subjects dealing with the environment. The course contains compulsory subjects and electives.

Career opportunities exist with a variety of organisations, including government environmental and planning departments, the CSIRO, environmental and management units, tourism bodies, industry and mining, and educational institutions. Graduates may also obtain employment with international aid and development projects, or work as consultants.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about arrangements please see the University’s website, at http://www.newcastle.edu.au/services/student/college/index.htm

Course Structure

The degree is completed over 3 years of full-time study (or equivalent part-time) and requires students to pass subjects totalling 240 credit points. Most subjects have a value of 10 credit points.

The course is divided into three parts:

- The core compulsory environmental and biological science subjects and an elective major in a related subject.
- These subjects account for almost half of the degree and incorporate four broad categories of specialisations: Environmental Planning, The Environment and Society, Statistics, Data Analysis and Computing, and Biological Science.
- Studies in other subject areas must include one major sequence chosen from the Physical Sciences (Physics and Mathematics), Chemistry, Biological Sciences, Earth...
Sample Program: Environmental Management Major

For information about credit points, semesters of offer and assumed knowledge, see the list of Approved Subjects.

### 100 level (Year 1) (80 credit points)

**Environmental core subjects**
- ENV102 Environmental Values and Ethics
- ENV104 Methods in Environmental Science and Management

**Biological Sciences core subjects**
- BIOL111 Introductory Biology - Ecosystems & Communities
- BIOL112 Introductory Biology - Populations, Genetics & Evolution

**Environmental Management subjects**
- EMGT102 Social Development and the Environment
- EMGT104 Environmental Issues and their Management

**Environmental Management subjects - at least 30 credit points**
- EMGT201 Soils and Hydrology
- EMGT202 The Sustainable Society
- EMGT204 Ecology & Management of Australian Flora
- EMGT205 Australian Fauna
- GEOG208 Cities and Regions
- GEOG211 Methods in Human Geography
- GEOG212 Communicating in Geography and Environmental Science
- GEOG213 Geographies of Development
- GEOG214 Outback Diversity

**Elective subjects** may be selected from subjects listed for another major, other subjects within the Faculty or approved subjects from other Faculties.

### 200 level (Year 2) (80 credit points)

**Environmental core subjects**
- ENV201 Environmental Legislation and Planning
- ENV202 Environmental Sampling and Data Analysis
- ENV204 Energy and the Environment

**Biological Sciences core subjects**
- BIOL207 Ecology

**Environmental Management subjects - at least 30 credit points**
- EMGT201 Soils and Hydrology
- EMGT202 The Sustainable Society
- EMGT204 Ecology & Management of Australian Flora
- EMGT205 Australian Fauna
- GEOG208 Cities and Regions
- GEOG211 Methods in Human Geography
- GEOG212 Communicating in Geography and Environmental Science
- GEOG213 Geographies of Development
- GEOG214 Outback Diversity

### 300 level (Year 3) (80 credit points)

**Environmental core subjects**
- ENV301 Integrated Environmental Impact Assessment

**Biological Sciences core subjects**
- BIOL311 Environmental Biology

**Environmental Management subjects - at least 40 credit points**
- BIOL319 Wetland Ecology
- EMGT301 Conservation Biology
- EMGT304 Advanced Studies in Sustainability
- EMGT306 Environmental Management Placement Study - Part A and Part B
- EMGT310 Environmental Remediation
- ECOS322 Environmental Economics
- GEOG323 Coastal Dynamics, Evolution and Protection
- GEOG324 Globalization: Cities, Economies
- GEOG325 Geographic Information Systems
- MEUM301 Environmental Health

**Elective subjects** may be selected from subjects listed for another major, other subjects within the Faculty or approved subjects from other Faculties.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM231</td>
<td>Organic Chemistry</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CHEM241</td>
<td>Physical Chemistry</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CHEM251</td>
<td>Instrumental Chemical Analysis</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CHEM261</td>
<td>Environmental Chemistry</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CHEM271</td>
<td>Metal Compounds, Structure and Reactivity</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CHEM281</td>
<td>Molecular Organic Synthesis</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CHEM291</td>
<td>Energy and Structure</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CHEM341</td>
<td>Medicinal and Biological Chemistry</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CHEM351</td>
<td>Solids, Surfaces and Colloids</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CHEM361</td>
<td>Spectroscopic Characterisation of Compounds</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CHEM381</td>
<td>Chemistry Project</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

**Earth Sciences Major**

<table>
<thead>
<tr>
<th>Level</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>GEOG101</td>
<td>Introduction to Physical Geography</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>100</td>
<td>GEOG102</td>
<td>Planet Earth</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>200</td>
<td>GEOG201</td>
<td>Earth Materials</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

Minimum of 40 credit points from the following (10 credit points must be selected from GEOG and from GEOG/EMGT subject)

**Environmental Management Major**

<table>
<thead>
<tr>
<th>Level</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>EMGT101</td>
<td>Environmental Issues and their Management</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>200</td>
<td>EMGT102</td>
<td>Social Development and the Environment</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

Minimum of 30 credit points from:

<table>
<thead>
<tr>
<th>Level</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>EMGT201</td>
<td>Soils and Hydrology</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

Note: EMGT309A and EMGT309B must be completed in the same calendar year.

**Environmental Management Placement Study - Part A**

<table>
<thead>
<tr>
<th>Level</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>EMGT202</td>
<td>Environmental Remediation</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

Minimum of 40 credit points in 200 level GEOGEN/VITA/GEOL subjects, including PHYS214, MATH201, or PHYS201.
PHYS326  Computer Modelling for Physical Scientists  10  2  40 credit points of 300 level or equivalent Mathematics subjects
PHYS327  Applications in Electromagnetism  5  2  PHYS201 or PHYS215, MATHS112
PHYS328  Nanotechnology  5  2  PHYS201 or PHYS214, PHYS113, MATHS112
PHYS329  Special Relativity  10  1  PHYS113, PHYS114, MATHS112
PHYS350  Advanced Electromagnetism for Scientists & Engineers  10  2  PHYS113, PHYS114, MATHS112

1 Unified Entry.
2 Advisory entry requirement: HSC 3 Unit Mathematics with a mark of at least 110 and 2 Unit Physics or 4 Unit Science with a maximum of 50% of candidature for these subjects.
3 Advisory entry requirement: HSC 3 Unit Mathematics with a mark of at least 120.
4 Students cannot count more than 10 credits for PHYS201, PHYS215 or PHYS350. PHYS327 cannot be counted with PHYS350.

Schedule
Qualification for the Degree
1. (1) To qualify for admission to the Degree, candidates shall pass subjects totalling 240 credit points including the prescribed subjects unless the Faculty Board approves otherwise in a particular case.
   (2) the subjects passed shall include:
   (a) at least 80 and not more than 100 credit points from 100 level subjects;
   (b) at least 60 credit points from 200 level subjects; and
   (c) at least 80 credit points from 300 level subjects.

Credit
2. (1) A candidate may be granted credit:
   (a) for up to 160 credit points in recognition of subjects completed at another tertiary institution which have not been previously counted towards a completed award;
   (b) for as many credit points as the Faculty Board determines in recognition of subjects completed at the University which have not been previously counted towards a completed award; and
   (c) for up to 110 credit points in recognition of subjects completed at the University which have not been previously counted towards a completed award.

(2) Except with the permission of the Dean, candidates granted credit in recognition of work completed at the University shall complete at least 40 credit points at the 300 level at the University.

Time Requirements
3. (1) Except with the permission of the Faculty Board, a candidate shall complete the course within two years.
   (2) A candidate granted credit shall be deemed to have commenced the course from a date determined by the Dean.

Bachelor of Environmental Science (Honours)
Award Abbreviation: BEnvSc(Hons)

The Bachelor of Environmental Science (Honours) is offered by the Faculty of Science and Mathematics. The degree is available with specialisations of Biological Sciences, Chemistry, Environmental Management, and Geography.

Admission Requirements
To be eligible for admission to the Honours program, students must have:
- a completed Bachelor of Environmental Science degree (or equivalent);
- a credit grade average in at least 40 credit points of 300 level subjects in the relevant discipline or in the subject at 300 level approved by the Head or Deputy Head of School; and
- permission of the Head or Deputy Head of School.

In exceptional circumstances, this requirement may be varied with the approval of the Dean.

Course Structure
The Honours program is normally undertaken over one year of full-time study or two years part-time. Students are required to complete subjects from one of the following disciplines: Biological Sciences, Chemistry, Environmental Management, or Geography.

Approved Subjects
Students cannot count more than one discipline.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>11041</td>
<td>Bachelor Honours 411</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11042</td>
<td>Bachelor Honours 412</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11043</td>
<td>Bachelor Honours 421</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11044</td>
<td>Bachelor Honours 422</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11045</td>
<td>Chemistry Honours 411</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11046</td>
<td>Chemistry Honours 412</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11047</td>
<td>Chemistry Honours 421</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11048</td>
<td>Chemistry Honours 422</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11049</td>
<td>Environmental Management Honours 411</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11050</td>
<td>Environmental Management Honours 412</td>
<td>20</td>
<td>1, 2</td>
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<tr>
<td>11051</td>
<td>Environmental Management Honours 421</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>11052</td>
<td>Environmental Management Honours 422</td>
<td>20</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Schedule

Interpretation
1. In this schedule, "discipline" means a branch of learning recognised by the Faculty Board as constituting a discipline.

Admission to Candidature
2. A candidate may undertake the honours degree in either one or two disciplines.

3. In order to be admitted to candidacy for the degree an applicant shall:
   - have completed the requirements for admission to the Ordinary Degree of Bachelor of Environmental Science of the University or any other degree approved by the Faculty Board; and
   - have undertaken other work prescribed in accordance with the policy determined by the Board on the recommendation of the Head of Department responsible for the discipline.

Qualification for Admission to the Degree
4. To qualify for admission to the degree a candidate shall pass subjects at the 400 level totalling 80 credit points chosen from the list of Approved Subjects.

Classes of Honours
5. There shall be three classes of honours: Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

Time Requirements
6. Except with the permission of Faculty Board, a Candidate shall complete the course in not more than two years of study.
Bachelor of Finance

Award Abbreviation: BFin

The Bachelor of Finance is offered by the Faculty of Economics and Commerce. It is a three-year full-time degree that provides students with knowledge and skills that prepare them for a career in financial services. Students who complete the Business Finance major are able to meet the educational entrance requirements for Senior Associate membership of the Australian Institute of Banking and Finance. The degree is sufficiently flexible to allow students to take up to eight subjects in a wide variety of other areas including languages.

TAFE Credit

Credit transfers agreements with TAFE NSW and other education providers are under continuous negotiation. For more information contact the Faculty of Economics and Commerce. For current TAFE courses, please see the University's website at http://www.newcastle.edu.au/teaching-learning/for-teachers.

Enhanced TAFE-University articulation arrangements are in place for this degree for students who have completed the following TAFE NSW courses:
- Advanced Diploma in Business (Management)
- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Course Structure

To complete the degree, students must pass subjects totalling 240 credit points. The course program has three components: Core subjects, a Major Sequence and Elective Subjects, which may include a second Major, but must also include subjects at the 300 level.

The 240 credit points required to complete the degree must include:
- all 100 level Core Subjects
- a Major Sequence in either Business Finance or Quantitative Finance
- no more than 100 credit points at the 100 level
- at least 60 credit points at the 300 level

Core and Major Sequence Subjects - Business Finance Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level - Business Finance Major Sequence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACFI101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td>ACFI101</td>
</tr>
<tr>
<td>ACFI102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td>ACFI101</td>
</tr>
<tr>
<td>ECON101</td>
<td>Microeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>STAT105</td>
<td>Statistics for Business</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
</tbody>
</table>

Compulsory Major Sequence Subject

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRHR111</td>
<td>Introduction to Management and</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Organisational Behaviour</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Course Credit Points: Subject Name

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Business Finance</td>
<td>10</td>
<td>1</td>
<td>ACFI101, ECON101, ECON111</td>
</tr>
<tr>
<td>ACFI207</td>
<td>Corporate Financial Decision Making</td>
<td>10</td>
<td>2</td>
<td>ACFI207</td>
</tr>
<tr>
<td>ECON239</td>
<td>Business Economics</td>
<td>10</td>
<td>1</td>
<td>ECON101 and ECON111</td>
</tr>
</tbody>
</table>
### Approved Subjects Offered by the Faculty of Economics and Commerce

The following list includes subjects offered by the Faculty of Economics, and commonly undertaken by students in the Bachelor of Commerce.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Level</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1, 2</td>
<td>ACH101</td>
</tr>
<tr>
<td>ACH102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td>ACH102</td>
</tr>
</tbody>
</table>
| COMP110      | Introduction to Programming | 5 | 1 | B Computer Science and Computing.
| ECON110      | Microeconomics I | 10 | 1, 2 | ECH101 |
| ECON111      | Microeconomics II | 10 | 1, 2 | ECH101 |
| ECON113      | Basic Economics and Quantitative Analysis | 10 | 1, 2 | ECH101 |
| INFO101      | Information Systems | 10 | 1, 2 | INFO101 |
| INFO102      | Information Storage and Management | 10 | 2 | INFO101 |
| IRIR111      | Introduction to Management and Organisational Behaviour | 10 | 1, 2 | IRIR111 |
| LAW101       | Foundations of Law | 10 | 1 | LAW101 |
| LES101       | Introduction to Tourism | 10 | 2 | LES101 |
| LES111       | Leisure and Society | 10 | 1 | LES111 |
| MATH110      | Preliminary Mathematics | 10 | 1 | MATH110 |
| MATH111      | Mathematics I | 10 | 1 | MATH111 |
| MATH112      | Mathematics II | 10 | 2 | MATH112 |
| MATH121      | Advanced Mathematics I | 10 | 1 | MATH121 |
| MATH122      | Advanced Mathematics II | 10 | 2 | MATH122 |
| MATH165      | Discrete Mathematics I | 10 | 1 | MATH165 |
| MATH166      | Discrete Mathematics II | 10 | 2 | MATH166 |
| MKTG100      | Marketing Principles | 10 | 1, 2 | MKTG100 |
| POL101       | Australian Politics and Government | 10 | 2 | POL101 |
| SENG111      | Introduction to Software Engineering | 10 | 1 | SENG111 |
| SENG112      | Introduction to Software Engineering 2 | 10 | 2 | SENG112 |
| STAT105      | Statistics for Business | 10 | 1, 2 | STAT105 |
| 200 Level    |              |               |          |                   |
| ACH201       | Corporate Accounting and Reporting | 10 | 1 | ACH101 |
| ACH202       | Corporate Financial Regulation and Control | 10 | 2 | ACH101 |
| ACH203       | Costing Principles and Method | 10 | 2 | ACH101 |
| ACH204       | Planning, Control and Performance Evaluation | 10 | 2 | ACH101 |
| ACH207       | Business Finance | 10 | 2 | ACH101, ECON110, ECON111 |
| ACH208       | Corporate Financial Decision Making | 10 | 2 | ACH101, ECON110, ECON111 |
| ACT210       | Financial Management for Business | 10 | 1 | ACT101 |
| ACT220       | Introduction to Financial Planning | 10 | 2 | ACT101 |
| COMP222      | Theory of Computation | 10 | 2 | SENG112, MATH165 |
| COMP224      | Operating Systems | 10 | 2 | SENG112, MATH165 |
| ECON230      | Introduction to Labour Economics | 10 | 2 | ECON110 |
| ECON233      | Asian Business Development | 10 | 2 | N/A 2001 |
| ECON234      | The Rise of Consumer Society | 10 | 2 | N/A 2001 |
| ECON235      | Australian Business History | 10 | 2 | N/A 2001 |
| ECON239      | Business Economics | 10 | 1 | ECON110, ECON111 |
| ECON240      | Business Economics | 10 | 1 | ECON110, ECON111 |
| ECON241      | Business Economics | 10 | 1 | ECON110, ECON111 |

**Note:** Some subjects may have prerequisites that are not listed here. Please consult the Faculty Handbook for more information.
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<tr>
<th>Subject Code</th>
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**Schedule**

**Qualification for the Degree**

1. A degree in this degree shall be conferred on a candidate who has achieved a minimum of 40 credit points in the degree program.

2. Credit points in courses marked with an asterisk (*) may be transferred to the degree program upon approval of the Faculty Board.

3. Credit points in courses marked with a double asterisk (**) may be transferred to the degree program upon approval of the Faculty Board.

4. Credit points in courses marked with a triple asterisk (***) may be transferred to the degree program upon approval of the Faculty Board.

5. Credit points in courses marked with a quadruple asterisk (****) may be transferred to the degree program upon approval of the Faculty Board.

6. Credit points in courses marked with a quintuple asterisk (*****).
(2) An undergraduate may be granted credit in subjects totalling not more than 120 credit points. Credit in academic subjects may be allowed in the case of an undergraduate transferring from another course in the University.

Enrolment
4. A candidate in good academic standing may, upon successful completion of 25 credit points in the first semester, be allowed to enrol in a subsequent semester without the permission of the Dean. Continued enrolment in the second semester may not be permitted if a candidate fails to maintain good academic standing.

(2) For the purposes of Rule 4(1), a student shall be deemed to be in good academic standing if he or she maintains satisfactory academic performance throughout the course.

Bachelor of Finance/Bachelor of Laws
Award Abbreviations: BFin, LLB

The Bachelor of Finance/Bachelor of Laws combined degree program is offered by the Faculty of Economics and Commerce and the Faculty of Law. Within the combined degree program, students undertake 250 credit points of BFin subjects for the Bachelor of Finance degree and a total of 150 credit points of Bachelor of Laws subjects.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information on articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oua/tafecredit/index.htm

Program Structure
The Bachelor of Finance/Bachelor of Laws combined degree program is undertaken over five years. In order to meet the degree requirements, candidates must undertake the following program comprising 150 credit points of Bachelor of Finance subjects and 250 credit points of Bachelor of Laws subjects.

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<th>Bachelor of Laws: Subjects</th>
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<td>LLB103A Legal System &amp; Method - Part A</td>
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<td>60 credit points - 20 or 30 credit points at 100 level and 30 or 40 credit points at 200 level</td>
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<td>Year 3</td>
<td>50 credit points - at least 40 credit points at the 300 level</td>
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<td>80 credit points</td>
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<td>Year 5</td>
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The final 2 years of the combined degree program comprise study in law subjects. Credit in academic subjects may be allowed in the case of a student transferring from another course in the University.

Bachelor of Fine Art (Callaghan Campus)
Award Abbreviation: BFA

The course of study for the Bachelor of Fine Art degree is offered by the Faculty of Arts and Social Science. The course is designed to prepare students for professional practice in the visual arts and arts-related fields and can be completed over three years full time or equivalent part-time study (mainly day classes).

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oua/tafecredit/index.htm

Program Requirements
1. In order to qualify for the award, students must pass 240 credit points comprising:
(a) A minimum of 80 credit points in 100 level;
(b) A minimum of 80 credit points at 200 level; and
(c) A minimum of 80 credit points at 300 level.
2. In accordance with the Course Program, subjects are to be selected as follows:

(a) Art History/Theory Subjects - a minimum of 50 credit points - 20 credit points at 100 level and at least 30 credit points at 200 or 300 level, with the remaining 20 credit points at 200 or 300 level.

(b) Generic Studio Subjects - a minimum of 100 credit points - a minimum of 60 credit points at 200 level, 40 credit points at 100 level from one of the discipline areas of 2D Art, 3D Art, Photomedia or Video, and 20 credit points at 200 level from a different discipline area taken at the 200 level.

(c) Elective Subjects - a maximum of 90 credit points - a maximum of 20 credit points at 200 level and at least 50 credit points at 300 level from the following subjects:

(i) Generic Studio Subjects

(ii) Art History/Theory Electives, 2D Electives, 3D Electives, Photomedia Electives and Video Electives

(iii) A maximum of 20 credit points from other available undergraduate subjects.

3. Students intending to undertake a major in Video within a three year full-time program must enrol Introduction to Video 1 and CMNS104 Introduction to Video 2 in their first year, leaving enrolment in the compulsory 200 level Generic Studio subjects until their second year of enrollment.

4. Full-time enrollment (80 credit points per year) will enable course completion in three years. Students may enrol in less than 20 credit points per year and completion will take proportionately longer.

Many disciplines (subject areas) within the Faculty of Arts and Social Science require students to complete a set of mandatory subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline requirements. Some of these requirements are mandatory when they lead to professional accreditation or when they involve the acquisition of knowledge and/or skills. Before enrolling, students must consult the Department responsible for the discipline to ensure that they are satisfactory.

This is of particular significance when intending to pursue a major in Art History/Theory subjects.

Course Program

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<th>Subject Name</th>
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<tr>
<td>ART124</td>
<td>2-D Art: Image, Media and Technology</td>
<td>10</td>
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</tr>
<tr>
<td>ART130</td>
<td>3-D Art: Form and Space</td>
<td>10</td>
<td>1</td>
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</tr>
<tr>
<td>ART131</td>
<td>3-D Art: Process and Practice</td>
<td>10</td>
<td>2</td>
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<tr>
<td>ART140</td>
<td>Photomedia: Introductory Photomedia 1</td>
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<tr>
<td>ART141</td>
<td>Photomedia: Introductory Photomedia 2</td>
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<tr>
<td>Video Option: Students intending to take a major in Video within a three year full-time program, should take the Video program as follows: Introduction to Video 1 and CMNS104 Introduction to Video 2 in Year 1 leaving enrolment in two of the compulsory 100 level Generic Studio subjects until the second year of enrollment.</td>
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<tr>
<td>Year 2</td>
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<tr>
<td>Art History/Theory Options - compulsory - at least 20 credit points from the following subjects:</td>
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<td>ART303</td>
<td>Australian Art History</td>
<td>10</td>
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<tr>
<td>ART304</td>
<td>Historical Perspectives on Photomedia</td>
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</tr>
<tr>
<td>ART305</td>
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<tr>
<td>ART310</td>
<td>Theories of Art Therapy</td>
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<tr>
<td>ART311</td>
<td>Analysis of the Visual Image</td>
<td>10</td>
<td>1</td>
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<tr>
<td>ART312</td>
<td>The 3-D Arts since 1900</td>
<td>10</td>
<td>1</td>
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</tr>
<tr>
<td>ART313</td>
<td>Museology and Professional Arts Practice</td>
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</table>

Course Program Table:

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<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<td>ART121</td>
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<td>Generic Studio 100 Level Subjects - compulsory</td>
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Subject Code | Subject Name                                      | Credit Points | Semester | Assumed Knowledge |
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</tbody>
</table>
20 Electives

ART322 Painting Concepts, Modes and Media 10 1 ART123, ART124
ART323 Interdisciplinary Painting 10 2 ART123, ART124
ART324 Photographic Methods in Printmaking 10 1 ART123, ART124
ART325 The Print as Object 10 2 ART123, ART124
ART378 Experimental Drawing 10 2 ART123, ART124
ART379 Observational and Expressive Drawing 10 1 ART123, ART124

3D Electives

ART332 Site Specific Sculpture 10 1 ART130, ART131
ART333 Multi-Media Sculpture 10 2 ART130, ART131
ART334 Paper as Form 10 1 ART130, ART131
ART335 Soft Sculpture 10 2 ART130, ART131
ART336 Experimental Ceramic Techniques 10 1 ART130, ART131
ART337 Ceramic Production Techniques 10 2 ART130, ART131

Photomedia Electives

ART342 Digital Photomedia 10 1 ART140, ART141
ART343 Alternative Photomedia 10 1 ART140, ART141
ART344 Colour/Studio Photomedia 10 1 ART140, ART141
ART345 Applied Photomedia 10 2 ART140, ART141
ART346 Hybrid Photomedia 10 1 ART140, ART141
ART347 Traditional Photomedia 10 2 ART140, ART141

Computer Elective

CMN5103 Introduction to Video 1 10 1 Enrolled in BA/Arts
CMN5104 Introduction to Video 2 10 2 CMN5103
CMN5105 Introduction to Audio Communication 10 1 Enrolled in BA/Arts
CMN5314 Principles of Sound 10 1 CMN5303
CMN5331 Video Arts 10 2 CMN5303
CMN5367 Screenwriting (Documentary) 10 1 CMN5303
CMN538 Screenwriting (Drama) 10 2 CMN5303
CMN5344 Video Alternatives 10 2 CMN5303 and CMN5203
CMN5335 The Independent Producer 10 1 CMN5303
CMN5336 The Independent Production 10 2 CMN5303
CMN5337 Sound Project 20 2 CMN5321

Other Electives

ART350 Directed Study 10 1, 2 Approval of Head of School (BAM)

Schedule

Qualification for the Degree
1. To qualify for admission to the degree, a candidate shall pass a program of subjects, approved by the faculty board, totaling less than 240 credit points.

Credit
2. A candidate may be granted credit towards satisfaction of degree requirements:
   (a) in up to 160 credit points in recognition of subjects passed at this University or another tertiary institution;
   (b) in exceptional circumstances, in as many additional credit points as the faculty board, in line with its remit, may approve.

* Candidates who were enrolled in the Bachelor of Arts (Visual Arts) program at the Callaghan Campus prior to 2014 may receive either the Bachelor of Arts (Visual Arts) or the Bachelor of Fine Art.
Bachelor of Fine Art (Honours) (Callaghan Campus)

Award Abbreviation: BFA(Hons)

The Bachelor of Fine Art (Honours) degree is offered by the Faculty of Arts and Social Science. Applicants to this course must have completed the requirements for admission to the degree of Bachelor of Fine Art or equivalent.

Specialisations

This course is available to students to develop the ability to pursue an individual direction in a chosen specialisation:

- 2D Art (Painting/Drawings, Printmaking);
- 3D Art (Ceramics, Fibres/Textiles, Sculpture);
- Photomedia.

The course is offered on a full-time (one year), or equivalent part-time basis.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</thead>
<tbody>
<tr>
<td>ARH11</td>
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<tr>
<td>ARH12</td>
<td>Honours B</td>
<td>20</td>
<td>1, 2</td>
<td>Contact the School of Fine Art</td>
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<tr>
<td>ARH13</td>
<td>Honours C</td>
<td>20</td>
<td>1, 2</td>
<td>Contact the School of Fine Art</td>
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<tr>
<td>ARH14</td>
<td>Honours D</td>
<td>20</td>
<td>1, 2</td>
<td>Contact the School of Fine Art</td>
</tr>
</tbody>
</table>

Schedule

Specialisations

1. A candidate may undertake the Honours degree in one of the specialisations determined by the Faculty Board.

Admission to Candidature

2. Applicants for admission to candidature shall nominate the specialisation in which they wish to pursue their study.

3. (a) An applicant for admission to candidature in specialisation other than Wildlife Illustration shall have satisfied the requirements for admission to the Ordinary degree of Bachelor of Arts (Visual Arts) of the University of Newcastle, or to an equivalent degree approved by the Faculty Board, at an approved level, with a major study in the nominated area of specialisation.

4. (a) An applicant for admission to candidature in the Wildlife Illustration specialisation shall have satisfied the requirements for admission to a degree of University of Newcastle, or to a degree of another institution approved by the Faculty Board, at an approved level, with specialisation in drawing, painting or photography or printmaking or Wildlife Illustration; or

(b) have satisfied the requirements for admission to a Bachelor of Science degree of the University of Newcastle or another tertiary institution at an approved level, approved by the Faculty Board AND

5. (a) present at interview a substantial portfolio of art work relevant to the proposed area of study, and

(b) submit a written statement explaining the proposed program of study.

Ranking for Selection

3. In the event that places in the program are limited, candidates shall be admitted on the basis of merit.

Bachelor of Health Science (Nutrition and Dietetics)

Award Abbreviation: BHS(NGD)

Bachelor of Health Science (Nutrition and Dietetics) is offered by the Faculty of Medicine and Health Sciences. It is a four year integrated course, with strands of study in Food, Nutrition and Dietetics, Basic and Applied Sciences, Social Sciences and Professional Practice. Students also complete a research project. The Bachelor of Health Science (Nutrition and Dietetics) has been accredited by the Dietitians Association of Australia.

A small number of students may elect professional positions in business, private practice, government and community organisations. Opportunities in nutrition care, research, health promotion, public relations and consulting services are available.

TAFE Credit

Credit transfers agreements with TAFENSW and other education providers are under continuous negotiation. For more information about other arrangements please see the University's website, at http://www.newcastle.edu.au/services/our/tafeced/index.htm

Course Structure

Qualification for the award of Bachelor of Health Science (Nutrition and Dietetics) requires the completion of 320 credit points.

During the course, students complete a minimum of 20 weeks of professional practice in hospitals, community and food service settings located around NSW and Australia. These placements are organised by the Discipline but associated expenses are at the cost of the student. For information about semester of offer and assumed knowledge, see the list of Course Subjects.

The degree may be conferred with Honours if a student achieves the specified level of performance in the Ordinary Degree.

Class I: Total Grade Point Average $\geq 6.7$

Class II (Division I): Total Grade Point Average $\geq 5.5/7$
**Bachelor of Health Science (Occupational Therapy)**

The Bachelor of Health Science (Occupational Therapy) is offered by the Faculty of Medicine and Health Sciences. It is a four-year, full-time degree which produces professionals able to function effectively in any field of occupational therapy practice.

Qualification of the award of Bachelor of Health Science (Occupational Therapy) requires the completion of 320 credit points.

The course comprises core subjects in the biological and behavioural sciences, common to many undergraduate health profession programs, and a professional strand designed to cover all professional preparation requirements. For information about semester and assumed knowledge, see the list of Course Subjects below.

**Course Structure**

For continuing students the following transition arrangements apply:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester*</th>
<th>Assumed Knowledge Concurrent Assumed Knowledge [CK]</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEHM201</td>
<td>Human Anatomy 1 (Occupational Therapy)</td>
<td>10</td>
<td>Full year</td>
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<tr>
<td>BEHM202</td>
<td>Human Anatomy 2A</td>
<td>10</td>
<td>Full year</td>
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<tr>
<td>BEHM203</td>
<td>Human Anatomy 2B</td>
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<td>Full year</td>
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</tr>
<tr>
<td>ANAT108</td>
<td>Human Anatomy 1</td>
<td>10</td>
<td>Full year</td>
<td>HUB5104, BEHM201</td>
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<tr>
<td>BEHM101</td>
<td>General Psychology</td>
<td>10</td>
<td>Full year</td>
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<tr>
<td>BEHM200</td>
<td>Human Development</td>
<td>10</td>
<td>Full year</td>
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<tr>
<td>OCC100</td>
<td>Occupational Therapy Practice 1</td>
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<td>Full year</td>
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<td>OCC101</td>
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<td>OCC201</td>
<td>Occupational Therapy Practice 3</td>
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<td>OCC701</td>
<td>Occupational Therapy Practice 8</td>
<td>10</td>
<td>Full year</td>
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</tr>
</tbody>
</table>

**Schedule**

**Admission to Candidature**

1. **Except in cases where they meet the published selection criteria determined by the Faculty Board, applicants for admission to candidature shall be required to undertake selection assessment.**

2. **The selection assessment shall consist of:**
   
   (a) the submission of such written work as is required by the Faculty Board;
   
   (b) the attendance at such interviews as may be required by the Faculty Board.

**Ranking for Selection**

3. **Applicants shall be ranked in descending order of merit on the basis of either:**

   (a) academic performance as determined by the selection criteria determined by the Faculty Board;
   
   (b) academic performance as determined by the Faculty Board, and supplementary academic performance as determined by the Faculty Board and the selection criteria determined by the Faculty Board.

**Offers of Admission**

4. **The Faculty Board shall determine in descending order of merit the number of places available to applicants who do not submit work or attend the University as required as part of the selection assessment for admission to candidature, as determined by the selection criteria determined by the Faculty Board.**

5. **Applicants who are ranked in descending order of merit may be offered admission to candidature.**

6. **The Faculty Board shall determine how many places in the course should be offered to applicants who do not submit work or attend the University as required as part of the selection assessment for admission to candidature, as determined by the selection criteria determined by the Faculty Board.**

7. **Applicants who are ranked in descending order of merit and who are not offered admission to candidature may withdraw their applications unless a reason acceptable to the Faculty Board is provided.**

**Grading of Degree**

8. **The Faculty Board shall determine the number of places in the course that should be offered to applicants who do not submit work or attend the University as required as part of the selection assessment for admission to candidature, as determined by the selection criteria determined by the Faculty Board.**

9. **Applicants who are ranked in descending order of merit and who are not offered admission to candidature may withdraw their applications unless a reason acceptable to the Faculty Board is provided.**

**Time Requirements**

10. **A candidate who has been granted credit shall be deemed to have commenced the course at the time the credit is granted.**

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Schedule

Division of Schedule
1. This Schedule is divided into two parts, Part I being the Ordinary Degree and Part II being the Degree with Honours.

PART I - ORDINARY DEGREE

Admissions to Candidature
2. Except in cases where they meet the published selection criteria determined by the Faculty Board, no candidate shall be required to undertake selection assessment:
3. (1) The selection assessment shall consist of:
   (a) the submission of such written work;
   (b) the attendance at such interviews as the Faculty Board shall determine.
4. Applicants who do not submit work or attend the University as required as part of their application shall have withdrawn their applications unless a reason acceptable to the University Secretary is provided.

Ranking for Selection
4. Applicants shall be ranked in descending order of merit on the basis of either:
   (a) academic performance based on the selection criteria determined under Clause 2;
   (b) academic performance and results determined by the Faculty Board arising out of the selection assessment.

Offers of Admission
5. (1) The University Secretary and Registrar shall ensure that offers of admission are made in ranked order under clause 4, such that the places available in the course each year are filled.
6. (2) The Faculty Board shall determine how many places in the course should be filled from applicants ranked as in clauses 4 respectively.

Qualification for Admission to the Ordinary Degree
6. To qualify for admission to the Ordinary degree a candidate shall pass the program of study approved by the Faculty Board without any grade below Credit.

Time requirements
7. (1) Except with the permission of the Faculty Board, a candidate shall complete the course within five years from date of commencement.
8. (2) A candidate who has been granted credit shall be deemed to have commenced the course from a date to be determined by the Dean at the time the credit is granted.

PART II - DEGREES WITH HONOURS

Progression to Honours Component
8. To be permitted to enrol in the Honours component a candidate shall:
   (1) have completed 240 credit points from the 100, 200 and 300 level compulsory subjects and
   (2) have achieved a satisfactory level of competence in those subjects as may be determined by the Faculty Board.

Credit
9. Candidates eligible to enrol in the Honours component, having successfully completed 240 credit points, shall be permitted to enrol in 240 credit points in recognition of work completed towards the ordinary degree.

Qualification for the Degree with Honours
10. To qualify for the degree with Honours a candidate shall pass the program of study approved by the Faculty Board without any grade below Credit.

Classes of Honours
11. There shall be three classes of Honours namely Class I, Class II and Class III. Class II shall have two theses, namely General and Division 2.

Time Requirements
12. Except with the permission of the Faculty Board, a candidate shall complete the course within six years from the date of commencement in the Ordinary Degree.

Bachelor of Human Nutrition (Central Coast Campus)

Course Structure
The course is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totalling 240 credit points. Most subjects are compulsory, with a Major Sequence undertaken in the degree by students. For information about credit points, semesters of offer and assumed knowledge requirements, see the List of Approved Subjects.

Approved Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYC172</td>
<td>Psychology of Occupational Therapy</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SOC1032</td>
<td>Health Sociology</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>OCC101</td>
<td>Occupational Science</td>
<td>5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>OCC102</td>
<td>Occupational Therapy Practice</td>
<td>75</td>
<td>Full year</td>
<td></td>
</tr>
</tbody>
</table>

*Semester of offer may vary.

** The Faculty considers these subjects to be compulsory prerequisites.
Bachelor of Information Science

Award Abbreviation: BInfoSc

The Bachelor of Information Science is offered by the Faculty of Economics and Commerce. This three-year full-time (or part-time) degree focuses on the design, implementation, management and application of computerised information systems to business and other enterprises. Students must choose at least one of the major sequences offered in the degree - Information Systems, Statistics; Software Development; Accounting; Human Resources and Organisational Change; Marketing and Electronic Commerce. Specific Discipline Studies. Graduates are eligible for membership of the Australian Computer Society.

This course produces information systems professionals with a business emphasis. Graduates have strengths in data analysis and interpersonal communication. Students seeking a career in Information Technology are encouraged to complete a Software Development major. Those seeking a career with an emphasis on business applications are encouraged to undertake a major in Accounting, Marketing and Electronic Commerce or Human Resources and Organisational Change. The Specific Discipline Studies major allows for specialisation in other application areas such as health, education or tourism.

Honours: Available as an additional year to students who have achieved a credit grade point average.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information on articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/units/units.html

Enhanced TAFE-University articulation (credit) arrangements are in place for the following TAFE NSW courses:
- Diploma in Information Technology (Software Development)
- Diploma in Information Technology (Systems Administration)
### Software Development Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECRI201</td>
<td>Introduction to Software Engineering 1</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECRI214</td>
<td>The Society</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ELCT200</td>
<td>Computer Engineering 1</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECRI211</td>
<td>Advanced Software Engineering</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECRI212</td>
<td>Object Oriented Software Engineering</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECRI213</td>
<td>Computer Networks</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECRI214</td>
<td>User Interface Design</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

*Elective Subjects*

- At least three of these subjects must be at the 300 level, and no more than two can be at the 100 level.

### Accounting Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACRI101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI210</td>
<td>Financial Principles for Business</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

*Elective Subjects*

- At least two of the following 200 level subjects

### Marketing and Electronic Commerce Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACRI200</td>
<td>Corporate Accounting &amp; Reporting</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI202</td>
<td>Corporate Financial Regulation &amp; Control</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI203</td>
<td>Costing Principles &amp; Method</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI204</td>
<td>Planning, Control &amp; Performance Evaluation</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI210</td>
<td>Accounting &amp; Small Enterprise</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI212</td>
<td>International Accounting</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI216</td>
<td>Behavioural, Organisational &amp; Social Aspects of Accounting</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI217</td>
<td>Taxation A</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACRI218</td>
<td>Social &amp; Environmental Accounting</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

*Elective Subjects*

- At least three of these subjects must be at the 300 level, and no more than two can be at the 100 level.

### Specific Discipline Studies Major Sequence

- Students must choose seven subjects from an area related to a professional specialisation, for example, nursing, economics or design.
- At least three of these subjects must be at the 300 level, and no more than two can be at the 100 level.

### Schedule

**Qualification for the Degree**

1. To qualify for admission to the degree, a candidate shall complete a program approved by the Faculty Board totalling not less than 200 credit points from the list of Approved Subjects, and including:
   - the Core Subjects prescribed for the course by the Faculty Board;
   - a Major Sequence of subjects approved for the course by the Faculty Board;
   - at least 60 credit points from 100 level subjects, and
   - at least 100 credit points from 200 level subjects.
2. Where two approved Major Sequences are completed within the single degree, an overlap of not more than 20 credit points is permitted between Major Sequence subjects at 300 level.

**Credit**

3. A candidate shall be deemed to be in good academic standing if, at the conclusion of the semester of last enrolment in the course, the student was eligible to re-enrol without restrictions.
Bachelor of Information Science (Honours)
Award Abbreviation: BINFOSc(Hons)

The Bachelor of Information Science (Honours) program is offered by the Faculty of Economics and Commerce and requires an 80 credit points course which offers specialisation in the disciplines of Computer Science, Information Systems and Statistics.

Computer Science

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP411</td>
<td>Special Topic A</td>
<td>10</td>
<td>1, 2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP412</td>
<td>Special Topic B</td>
<td>10</td>
<td>1, 2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP413</td>
<td>Special Topic C</td>
<td>10</td>
<td>1, 2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP414</td>
<td>Special Topic D</td>
<td>10</td>
<td>1, 2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP425</td>
<td>Information Systems</td>
<td>30</td>
<td>Full year</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP431</td>
<td>Special Topic E</td>
<td>20</td>
<td>Full year</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP441</td>
<td>Cryptographic Techniques</td>
<td>10</td>
<td>1</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP443</td>
<td>Formal Reasoning in Artificial Intelligence</td>
<td>10</td>
<td>2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP444</td>
<td>Program Semantics</td>
<td>10</td>
<td>2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP445</td>
<td>Computational Geometry</td>
<td>10</td>
<td>1</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP447</td>
<td>Graph Algorithms</td>
<td>10</td>
<td>1</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP450</td>
<td>Operating Systems</td>
<td>10</td>
<td>2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP453</td>
<td>Information Visualisation</td>
<td>10</td>
<td>2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td>COMP432</td>
<td>Information Visualisation</td>
<td>10</td>
<td>2</td>
<td>Permission Head of Department</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>COMP432 (Advisory)</td>
</tr>
</tbody>
</table>

Information Systems

Full-time students enrol in INFO411, INFO412 and INFO415 in their first semester and INFO413, INFO414 and INFO416 in their second semester, independent of which semester they commence their enrolment.

Part-time students enrolling in first or second semester should enrol in INFO411 and INFO412 in their first semester and in INFO413, INFO414 and INFO415 in their second semester. In their third and fourth semesters, they should enrol in INFO415 and INFO416 respectively.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO411</td>
<td>Information Systems</td>
<td>10</td>
<td>2</td>
<td>Permission Head of School</td>
</tr>
<tr>
<td>INFO412</td>
<td>Information Systems</td>
<td>10</td>
<td>2</td>
<td>Permission Head of School</td>
</tr>
<tr>
<td>INFO413</td>
<td>Information Systems</td>
<td>10</td>
<td>2</td>
<td>Permission Head of School</td>
</tr>
<tr>
<td>INFO414</td>
<td>Information Systems</td>
<td>10</td>
<td>2</td>
<td>Permission Head of School</td>
</tr>
<tr>
<td>INFO415</td>
<td>Thesis in Information Systems - Part I</td>
<td>20</td>
<td>2</td>
<td>Permission Head of School</td>
</tr>
<tr>
<td>INFO416</td>
<td>Thesis in Information Systems - Part II</td>
<td>20</td>
<td>2</td>
<td>Permission Head of School</td>
</tr>
</tbody>
</table>

Statistics

Candidates are required to have a credit or better average in at least 40 credit points from 300 level subjects offered by the School of Mathematics and Physical Sciences.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT413</td>
<td>Statistics Honours</td>
<td>20</td>
<td>1, 2</td>
<td>Permission Head of School</td>
</tr>
<tr>
<td>STAT432</td>
<td>Statistics Honours</td>
<td>20</td>
<td>1, 2</td>
<td>Permission Head of School</td>
</tr>
<tr>
<td>STAT433</td>
<td>Statistics Honours</td>
<td>20</td>
<td>1, 2</td>
<td>Permission Head of School</td>
</tr>
</tbody>
</table>

Schedule

Interpretation
1. In this Schedule "discipline" means any branch of learning recognised as such by the Faculty Board.

Bachelor of Information Science/Bachelor of Laws
Award Abbreviations: BINFOSc, LLB

The Bachelor of Information Science/Bachelor of Laws combined degree program is offered by the Faculty of Economics and Commerce and the Faculty of Law. Within the combined degree program, students undertake 250 credit points of LLB subjects and 150 credit points of Bachelor of Information Science subjects.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about credit transfers, please see the University's website, at http://www.newcastle.edu.au/services/our/tafe/index.htm

Program Structure

The Bachelor of Information Science/Bachelor of Laws combined degree program is undertaken over five years of full-time study. To satisfy the degree requirements, candidating must undertake the following program comprising 150 credit points of Bachelor of Information Science subjects and 250 credit points of LLB subjects.

Bachelor of Information Science

<table>
<thead>
<tr>
<th>Year</th>
<th>40 credit points at 100 level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>40 credit points at 100 level</td>
</tr>
</tbody>
</table>

Bachelor of Laws Subjects

<table>
<thead>
<tr>
<th>Year 1</th>
<th>10 credit points at 100 level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LLB103A Legal System &amp; Method - Part A</td>
</tr>
<tr>
<td></td>
<td>LLB103B Legal System &amp; Method - Part B</td>
</tr>
<tr>
<td></td>
<td>LLB104A Criminal Law &amp; Procedure - Part A</td>
</tr>
<tr>
<td></td>
<td>LLB104B Criminal Law &amp; Procedure - Part B</td>
</tr>
</tbody>
</table>

Year 2

20 credit points at 200 level

40 credit points at 100 level

20 credit points at 200 level

10 credit points at 100 level

10 credit points at 200 level
The final 2 years of the combined degree program comprise study in only law subjects, because on successful completion of the first 2 years (240 credit points) of the combined degree you will be eligible to graduate with a Bachelor of Information Science degree.

The Bachelor of Information Science degree requires the completion of 150 credit points of subjects offered within the Faculty of Economics and Commerce. The following are the Information Science core subjects which total 150 credit points:

100 LEVEL
- SENG111 Introduction to Software Engineering 1
- INFO101 Introduction to Information Systems
- IRHR111 Introduction to Management and Organisational Behaviour
- INFO102 Information Storage and Management
- MATH161 Mathematical Techniques for Information Technology
- STAT105 Statistics for Business

Total: 200 credit points

200 LEVEL
- INFO201 Human Context of Information Systems
- INFO203 Systems Analysis and Design
- INFO205 Systems Implementation
- INFO204 Distributed Computing Technologies

Total: 200 credit points

300 LEVEL
- INFO301 Information Management
- INFO305 Information Systems Project

Students must also choose two of the following subjects. At least one must be at the 300 level:
- INFO302 Information Systems Methods and Techniques
- INFO303 Information Systems and the Organisation
- STAT310 Total Quality Management
- COMP325 Database Systems
- CMNS100 Digital Media
- SENG112 Introduction to Software Engineering 2

Total: 60 credit points

- Note the assumed knowledge for COMP325 is SENG112.

Students wishing to undertake a major sequence in any of the following areas would be required to undertake an additional semester:
- Statistics
- Software Development
- Accounting
- Human Resources and Organisational Change
- Marketing and Electronic Commerce

Further Information

Students enrolled in a combined degree program belong to two faculties and are advised to consult the two Faculty Offices regarding their academic program.

For details on approved subjects, refer to course descriptions for the Bachelor of Information Science and the Bachelor of Law.
Bachelor of Laws

Award Abbreviation: LLB

The Bachelor of Laws (LLB) degree is offered by the Faculty of Law. It is a three year full-time graduation program five year part-time program offered in combination with other degree courses: Bachelor of Arts, Bachelor of Arts (Honours) BArch, Bachelor of Business, Bachelor of Commerce, Bachelor of Economics, Bachelor of Finance, Bachelor of Information Technology, Bachelor of Science (Forensic) and Bachelor of Social Science. The degree meets the academic requirements for admission to the practice of law in New South Wales.

During the first three years, combined degree students enrol in the subjects offered by the Faculty of Law as part of the LLB program as well as subjects within other Faculties to complete one of the ten degrees taken in combination with the LLB. During the last two years they enrol in LLB subjects only. For information about the other degrees, please see the course descriptions for the respective combined degree. Patterns of study for the law component of the combined degrees are detailed below.

Students who already hold a Bachelor's degree undertake the graduate LLB program over three years of full-time study.

Program Structure

All combined degree law students are required to complete five compulsory LLB subjects during the first three years of the course. These subjects, which make up the core program are: Legal System and Method, Criminal Law, Contract Law, Equity and Property. Graduate law students are required to complete the core program in their first year of study.

Once students have completed the core program, the LLB course diverges into two streams, the Bachelor of Laws/Bachelor of Business (in which students undertake traditional law studies) and the Bachelor of Laws/Diploma of Legal Practice (in which students undertake the Professional Program), which merges traditional undergraduate law teaching with practical legal training and experience.

Option A: students who wish to practice law need to complete a postgraduate professional course approved by the Law Admissions Board. Bachelor of Laws/Diploma of Legal Practice graduates are eligible to apply for admission to practice as a legal practitioner without further study. Admission to the Professional Program (Option B) is competitive.

Set out below are sample five year plans for students in Option A, the Bachelor of Laws. For information on Option B, see the course named Bachelor of Laws/Diploma of Legal Practice.
Combined Law Degree Patterns of Study

For details of Combined Law degree patterns of study refer to the relevant entry in the Handbook:
- Bachelor of Arts/Bachelor of Laws
- Bachelor of Arts (Communication Studies)/Bachelor of Laws
- Bachelor of Business/Bachelor of Laws
- Bachelor of Commerce/Bachelor of Laws
- Bachelor of Economics/Bachelor of Laws
- Bachelor of Finance/Bachelor of Laws
- Bachelor of Information Science/Bachelor of Laws
- Bachelor of Science/Bachelor of Laws
- Bachelor of Science (Forensic)/Bachelor of Laws
- Bachelor of Social Science/Bachelor of Laws

Approved Subjects

Table 1 - Core Program

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLB103A</td>
<td>Legal System and Method - Part A</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB103B</td>
<td>Legal System and Method - Part B</td>
<td>10</td>
<td>2</td>
<td>LLB103A</td>
</tr>
<tr>
<td>LLB104A</td>
<td>Criminal Law and Procedure - Part A</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB104B</td>
<td>Criminal Law and Procedure - Part B</td>
<td>10</td>
<td>2</td>
<td>LLB104A</td>
</tr>
<tr>
<td>LLB203A</td>
<td>Tort - Part A</td>
<td>10</td>
<td>1</td>
<td>LLB103A, 103B</td>
</tr>
<tr>
<td>LLB203B</td>
<td>Tort - Part B</td>
<td>10</td>
<td>2</td>
<td>LLB103A</td>
</tr>
<tr>
<td>LLB301A</td>
<td>Contracts - Part A</td>
<td>10</td>
<td>2</td>
<td>LLB103B</td>
</tr>
<tr>
<td>LLB301B</td>
<td>Contracts - Part B</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>LLB302</td>
<td>Property</td>
<td>10</td>
<td>2</td>
<td>LLB103A, LLB103B</td>
</tr>
</tbody>
</table>

*Available to LLB students only

For graduates admitted to the LLB degree program there are no assumed knowledge requirements in Table 1.

Table 2 - Bachelor of Laws (Option A)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLB401</td>
<td>Constitutional Law</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB402</td>
<td>Administrative Law</td>
<td>10</td>
<td>2</td>
<td>LLB401</td>
</tr>
<tr>
<td>LLB404</td>
<td>Civil Procedure</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB405</td>
<td>Evidence</td>
<td>10</td>
<td>2</td>
<td>LLB404</td>
</tr>
<tr>
<td>LLB406</td>
<td>Company Law</td>
<td>10</td>
<td>2</td>
<td>LLB403 or LLB409 and LLB410</td>
</tr>
<tr>
<td>LLB407</td>
<td>Jurisprudence</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB408</td>
<td>Professional Conduct</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>LLB409</td>
<td>Equity</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB410</td>
<td>Trusts</td>
<td>10</td>
<td>2</td>
<td>LLB409</td>
</tr>
</tbody>
</table>

For Table 2 the assumed knowledge requirements are all of the subjects listed in Table 1.

Table 3 - Bachelor of Laws/Diploma of Legal Practice (Option B)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLB401</td>
<td>Constitutional Law</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB402</td>
<td>Administrative Law</td>
<td>10</td>
<td>2</td>
<td>LLB401</td>
</tr>
<tr>
<td>LLB404</td>
<td>Civil Procedure</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB405</td>
<td>Evidence</td>
<td>10</td>
<td>2</td>
<td>LLB404</td>
</tr>
<tr>
<td>LLB406</td>
<td>Company Law</td>
<td>10</td>
<td>2</td>
<td>LLB409 and LLB410</td>
</tr>
<tr>
<td>LLB407</td>
<td>Jurisprudence</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB408</td>
<td>Professional Conduct</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>LLB409</td>
<td>Equity</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB410</td>
<td>Trusts</td>
<td>10</td>
<td>2</td>
<td>LLB409</td>
</tr>
</tbody>
</table>

For Table 3 the assumed knowledge requirements are all of the subjects listed in Table 1.

Table 4 - Assumed Knowledge Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLB401</td>
<td>Constitutional Law</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB402</td>
<td>Administrative Law</td>
<td>10</td>
<td>N/A 2001</td>
<td>LLB402</td>
</tr>
<tr>
<td>LLB403</td>
<td>Commercial Law</td>
<td>10</td>
<td>N/A 2001</td>
<td></td>
</tr>
<tr>
<td>LLB404</td>
<td>Civil Procedure</td>
<td>10</td>
<td>N/A 2001</td>
<td></td>
</tr>
<tr>
<td>LLB405</td>
<td>Evidence</td>
<td>10</td>
<td>2</td>
<td>LLB404</td>
</tr>
<tr>
<td>LLB406</td>
<td>Company Law</td>
<td>10</td>
<td>2</td>
<td>LLB409 and LLB410</td>
</tr>
<tr>
<td>LLB407</td>
<td>Jurisprudence</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB408</td>
<td>Professional Conduct</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>LLB409</td>
<td>Equity</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LLB410</td>
<td>Trusts</td>
<td>10</td>
<td>2</td>
<td>LLB409</td>
</tr>
</tbody>
</table>

For Table 4 the assumed knowledge requirements are all of the subjects listed in Table 1.

Schedule

<table>
<thead>
<tr>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. This Schedule is subject to change or subject matter otherwise indicates or requires -</td>
</tr>
<tr>
<td>2. It refers to the LLB degree program leading to the Bachelor of Laws degree as listed in this Schedule.</td>
</tr>
<tr>
<td>3. Core program means the subjects totalling 90 credit points set out in Table 1 of the List of Approved Subjects;</td>
</tr>
<tr>
<td>4. Assumed knowledge requirements are all of the subjects listed in Table 1.</td>
</tr>
</tbody>
</table>

Some subjects offered on an annual basis.
Qualification

2. (1) A candidate may only undertake the course as part of a combined degree program unless the person is an approved graduate.
(2) An approved graduate may undertake the course other than as a part of a combined degree program.
(3) A candidate undertaking the first three years of a combined law degree program must enrol in subjects totalling not less than 70 credit points each year unless the Dean permits otherwise.
(4) A candidate must first enrol for the degree under Option A but may be permitted to enrol under Option B pursuant to clause 4.
(5) Candidates undertaking the Bachelor of Laws/Diploma of Legal Practice must enrol in the prescribed full-time program.

Enrolment

2. (1) A candidate may only undertake the course as part of a combined degree program unless the person is an approved graduate.
(2) An approved graduate may undertake the course other than as a part of a combined degree program.
(3) A candidate undertaking the first three years of a combined law degree program must enrol in subjects totalling not less than 90 credit points each year unless the Dean permits otherwise.
(4) A candidate must first enrol for the degree under Option A but may be permitted to enrol under Option B pursuant to clause 4.
(5) Candidates undertaking the Bachelor of Laws/Diploma of Legal Practice must enrol in the prescribed full-time program.

Qualification for the Degree (Option A)

3. To qualify for admission to the degree pursuing Option A, a candidate must pass subjects totalling not less than 70 credit points comprising:
(a) the core program;
(b) the subjects totalling 90 credit points set out in Table 2 of the list of Approved Subjects; and
(c) subjects totalling not less than 70 credit points selected from the subjects set out in Table 6 of the list of Approved Subjects and must have completed the requirements for admission to the other degree, unless the candidate is an approved graduate.

Enrolment as a Candidate for the Degree and the Diploma (Option B)

4. (1) A candidate may be permitted to enrol for the degree and the diploma under Option B after:
(a) passing the subjects in the core program; and
(b) completing the requirements for admission to the other degree, unless the candidate is an approved graduate.
(2) In exceptional circumstances the Dean may permit a candidate to enrol under Option B even though the candidate has not satisfied the conditions set out in sub-clause (1).
(3) A candidate who has successfully applied for admission to the degree and the diploma must be permitted to enrol under Option B in a manner and by procedures determined and published by the Faculty Board.
(4) In the event that the number of candidates who apply for permission to enrol under Option B exceeds the number in Table 4 of the list of Approved Subjects, the Dean must determine which candidates will be permitted to enrol under Option B.
(5) A candidate who has unsuccessfully applied for permission to enrol under Option B must complete the core program as determined by the Dean.

Qualification for the Degree and Diploma (Option B)

5. To qualify for admission to the degree and the award of the diploma pursuing Option B, a candidate shall pass subjects totalling not less than 90 credit points comprising:
(a) the core program;
(b) the subjects totalling 180 credit points out of Table 3 of the list of Approved Subjects; and
(c) subjects totalling not less than 70 credit points selected from the subjects set out in Table 4 of the list of Approved Subjects.

SA. (1) This clause applies only to those candidates who first enrolled in the Option B course in 1998.
(2) To qualify for admission to the degree and the award of the diploma pursuing Option B, a candidate shall pass subjects totalling not less than 290 credit points comprising:
(a) the core program;
(b) the subjects totalling 170 credit points out of Table 3A of the list of Approved Subjects; and
(c) subjects totalling not less than 30 credit points selected from the subjects set out in Table 4B of the list of Approved Subjects.

Grading of the Degree

6. (1) The degree shall be conferred as an ordinary degree except that, where the performance of a candidate has been assessed as not having reached the standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.
(2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division I and Division 2.

Absence

7. (1) The Faculty Board may grant a candidate leave of absence which may be subject to conditions.
To apply for admission into the Bachelor of Laws/Diploma of Legal Practice, students must complete the prescribed application form and submit it to the Faculty of Law General Office in October in the year prior to which admission is sought.

1. The selection criterion to be employed by the Dean when determining which candidates will be permitted to enrol in the Bachelor of Laws/Diploma of Legal Practice course is 100% academic merit in the core program subjects with at least 70% of the 90 credit points being completed at Newcastle. Only core program subjects completed at Newcastle will be considered.

2. (a) A candidate who has been denied permission by the Dean to enrol in the Bachelor of Laws/Diploma of Legal Practice may, within 14 days of being so advised, appeal in writing to the Professional Program Appeal Committee for a review of his/her assessment under paragraph 1.

(b) The Professional Program Appeal Committee is to comprise the Deputy Dean and two other persons nominated by the Dean. One of the other members must be a member of the academic staff of the Faculty of Law and the other member must be a person who is not a member of the academic or administrative staff of the Faculty of Law.

3. The Dean must make arrangements for the selection criterion and the appeal provisions to be drawn to the attention of each candidate who is eligible to apply to enrol in Bachelor of Laws/Diploma of Legal Practice by including them within the Faculty Guide, by posting suitable notices and by distributing copies in appropriate lectures.

4. Permission to enrol in the Bachelor of Laws/Diploma of Legal Practice course will lapse unless the candidate enrols in that course in the next academic year.

Set out below are sample five-year plans for students in Option B. For information on Option A, refer to the course entry for Bachelor of Laws.

Combined Degree Program - Graduate Admission

The first three years will be the same as for Option A students. (Refer to Bachelor of Laws for information about credit points, subject duration, and assumed knowledge requirements; see the list of Approved Subjects.)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLB401</td>
<td>Constitutional Law</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>LLB404</td>
<td>Civil Procedure</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>LLB409</td>
<td>Equity</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>LLB516A</td>
<td>Legal Practice 1 - Part A</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>LLB516B</td>
<td>Legal Practice 2 - Part A</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>LLB402</td>
<td>Family Law</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>LLB410</td>
<td>Trusts</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>LLB425</td>
<td>Evidence</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>LLB426</td>
<td>Company Law</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>LLB516C</td>
<td>Professional Conduct</td>
<td>10</td>
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</tr>
<tr>
<td>LLB406</td>
<td>Jurisprudence</td>
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<tr>
<td>LLB415</td>
<td>Conveyancing</td>
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</tr>
<tr>
<td>LLB517A</td>
<td>Legal Practice 1 - Part A</td>
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<tr>
<td>LLB500</td>
<td>Elective 1</td>
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</tr>
<tr>
<td>LLB408</td>
<td>Professional Conduct</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>LLB420</td>
<td>Revenue Law</td>
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<tr>
<td>LLB421B</td>
<td>Trial Process - Part B</td>
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</tr>
<tr>
<td>LLB517B</td>
<td>Legal Practice 2 - Part B</td>
<td>5</td>
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<tr>
<td>LLB401</td>
<td>Jurisprudence</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>LLB415</td>
<td>Conveyancing</td>
<td>10</td>
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</tr>
<tr>
<td>LLB517A</td>
<td>Legal Practice 1 - Part A</td>
<td>5</td>
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<td>LLB500</td>
<td>Elective 1</td>
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<td>LLB408</td>
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<td>LLB420</td>
<td>Revenue Law</td>
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<tr>
<td>LLB421B</td>
<td>Trial Process - Part B</td>
<td>10</td>
<td>2</td>
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<tr>
<td>LLB517B</td>
<td>Legal Practice 2 - Part B</td>
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<tr>
<td>LLB500</td>
<td>Elective 2</td>
<td>10</td>
<td>2</td>
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</tbody>
</table>

For Table 4 the assumed knowledge requirements are all of the subjects listed in Table 1.
LLB619 Environmental Law 3 10 1 LLB402
LLB673 Legal History 10 N/A 2001
LLB674 Theories and Law 10 N/A 2001
LLB616 Advanced (Legal Research and Writing) 3 10 1, 2
LLB627 Law Review 10 1 2
LLB628 Advanced Commercial Law 10 N/A 2001
LLB630 Equal Opportunity Law 10 2
LLB633 Forensic Analysis and Legal Practice 10 1
LLB635 Public Interest Advocacy 10 N/A 2001
LLB636 Child Law 10 2
LLB637 Advanced Criminal Law 10 1
LLB638 Commercial Law III 10 1
LLB639 Conveyancing 10 1

1 Elective subjects are offered on a rotating basis and subject to student demand.
2 Refer to Faculty Policy on Grading of the Degree on page 21 of this Student Guide.
3 Elective subjects offered on an annual basis.

Schedule

Interpretation
1. In this Schedule, unless the context or subject matter otherwise indicates or requires:
   - approved graduate means the holder of a degree of the University or of another tertiary institution which is approved by the Faculty Board for the purposes of this schedule;
   - combined degree program means the program of study leading to the Bachelor of Laws degree and to another degree as stated in clause 9;
   - core program means the subjects totalling 90 credit points set out in Table 1 of the list of Approved Subjects;
   - course means the requirements for the degree and includes, if the candidate pursues Option B, the requirements for the Diploma.
   - degree means the degree of Bachelor of Laws;
   - diploma means the Diploma of Legal Practice;
   - Option A means the course leading to the degree of Bachelor of Laws;
   - Option B means the alternative course leading to the degree of Bachelor of Laws and to the Diploma of Legal Practice;
   - another degree and other degree means a Bachelor degree of the University, other than the Bachelor of Laws degree, which is included in a combined degree program.

Enrolment
2. (1) A candidate may only undertake the course as part of a combined degree program unless the person is an approved graduate.
   (2) An approved graduate may undertake the course other than as part of a combined degree program.
   (3) A candidate undertaking the first three years of a combined degree program must enrol in subjects totalling at least 80 credit points each year unless the Dean permits otherwise.
   (4) A candidate must first enrol for the degree under Option A but may be permitted to enrol for the degree and diploma under Option B pursuant to clause 4.
   (5) Candidates undertaking the Bachelor of Law/Diploma of Legal Practice must enrol in the prescribed full-time program.

Qualification for the Degree (Option A)
3. To qualify for admission to the degree pursuing Option A, a candidate must pass subjects totalling not less than 250 credit points comprising:
   (a) the core program;
   (b) the subjects totalling 90 credit points set out in Table 2 of the list of Approved Subjects; and
   (c) subjects totalling not less than 70 credit points selected from the subjects set out in Table 4 of the list of Approved Subjects;
   and must have completed the requirements for admission to the other degree, unless the candidate is an approved graduate.

Enrolment as a Candidate for the Degree and the Diploma (Option B)
4. (1) A candidate may be permitted to enrol for the degree and the diploma under Option B after:
   (a) passing the subjects in the core program; and
   (b) completing the requirements for admission to the other degree, unless the candidate is an approved candidate.
   (2) In exceptional circumstances the Dean may permit a candidate to enrol under Option B even though the candidate has not satisfied the conditions set out in sub-clause (1).

Qualification for the Degree and Diploma (Option B)
5. To qualify for admission to the degree and the award of the diploma pursuing Option B, a candidate shall pass subjects totalling not less than 250 credit points comprising:
   (a) the core program;
   (b) the subjects totalling 90 credit points set out in Table 3 of the list of Approved Subjects; and
   (c) subjects totalling not less than 70 credit points selected from the subjects set out in Table 4 of the list of Approved Subjects.

Graduation
6. (1) The candidate shall be granted the degree and the Diploma of Legal Practice or the Diploma of Legal Practice on completion of the course as prescribed in Schedule 1.
   (2) The candidate shall be granted a diploma or a certificate of completion of the course as prescribed in Schedule 1.

Absence
7. (1) The candidate may apply for leave of absence which may be subject to conditions.
   (2) Leave of absence may not be taken without the approval of the faculty Board.

Time Requirements
8. (1) If the course is taken as part of a combined degree program the course must be completed in not less than five years and not more than eight years of study.
   (2) An approved graduate must complete the course in not less than three years and not more than six years of study.
   (3) In exceptional circumstances the faculty Board may vary these time requirements.

Combined Degrees
9. A candidate, who is not an approved graduate, must undertake one of the following combined degree programs:
   - Bachelor of Arts/Bachelor of Laws
   - Bachelor of Arts (Communication Studies)/Bachelor of Laws
   - Bachelor of Business/Bachelor of Laws
   - Bachelor of Commerce/Bachelor of Laws
   - Bachelor of Economics/Bachelor of Laws
   - Bachelor of Finance/Bachelor of Laws
   - Bachelor of Information Science/Bachelor of Laws
   - Bachelor of Science/Bachelor of Laws
   - Bachelor of Science (Forensic)/Bachelor of Laws
   - Bachelor of Social Science/Bachelor of Laws
Bachelor of Management (Central Coast Campus)
Award Abbreviation: BMgt

The Bachelor of Management is offered by the Faculty of the Central Coast. It is a three-year full-time (or equivalent part-time) degree, which aims to produce graduates who may be employed in a wide variety of positions in the public or private sector, or who may wish to establish their own business. It will equip graduates for future management positions in numerous professions and occupations.

Graduates may apply for membership of the professional accounting bodies (CIMA Australia and the Institute of Chartered Accountants in Australia) and the Australian Human Resources Institute in accordance with accreditation arrangements currently being negotiated.

There are seven major sequences of study in the degree: Accounting, Hotel Management, Human Resource Management, Entrepreneurship, Sports and Club Management, Information Technology and Marketing. The degree will lead to careers in a wide variety of areas such as marketing, human resource management, training and development, hotel management, tourism and hospitality, information technology, accounting, small and medium enterprise management, management consulting, and international business.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ours/australian/index.htm

Enhanced TAFE-University articulation (credit) arrangements are in place for this degree. Students who have completed the following TAFE NSW courses may receive up to one year's credit towards the Bachelor of Management:
- Advanced Diploma in Business (Management)
- Advanced Diploma in Accounting
- Associate Diploma in Accounting
- Diploma in Business (Banking and Finance)
- Diploma in Business Studies

Course Structure
To complete the degree, students must pass subjects totalling 240 credit points (generally made up of twenty four subjects worth 10 credit points each). The course has three distinct components: Core subjects, a Major Sequence, and Elective subjects which may include a second Major.

The 240 points required to complete the degree must include:
- all 100 level Core subjects;
- a Major Sequence in either Accounting, Hotel Management, Human Resource Management, Entrepreneurship, Sports and Club Management, Information Technology or Marketing;
- no more than 100 credit points at 100 level;
- at least 60 credit points at 300 level.

Continuing Students
The Bachelor of Management degree has undergone a major change during 2000. Students who enrolled in the Management degree in 2000 are obliged to follow the course structure which pertained at the time of enrolment but they may transfer to the revised Bachelor of Management if they wish. Further information with regard to transition arrangements will be made available to Bachelor of Management students.

Compulsory Core and Major Sequence subjects - Accounting Major Sequence

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS180</td>
<td>Communication &amp; C-Talk</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>BUS185</td>
<td>Data, Decisions &amp; Directions</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BUS189</td>
<td>Electronic Business</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Not to be taken in conjunction with INFO101C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS110</td>
<td>People and Profiles in Business</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Not to be taken in conjunction with IRHR111C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS196</td>
<td>The Contemporary Commercial Environment</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>Plus</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

Compulsory Core and Major Sequence subjects - Marketing Major Sequence

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS180</td>
<td>Communication &amp; C-Talk</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>BUS185</td>
<td>Data, Decisions &amp; Directions</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BUS189</td>
<td>Electronic Business</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Not to be taken in conjunction with INFO101C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS110</td>
<td>People and Profiles in Business</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Not to be taken in conjunction with IRHR111C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS196</td>
<td>The Contemporary Commercial Environment</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>Plus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BUS190  Electronic Business  10  1
Not to be taken in conjunction with INF0101C

BUS110  People and Profiles in Business  10  1
Not to be taken in conjunction with IRHR111C

BUS116  The Contemporary Commercial Environment  10  1, 2

BUS160  The New Marketer  10  2  Not to be taken with MKTG100
*plus elective subjects

200 level Marketing Major Sequence

BUS260  The Integrative Marketer  10  1  MKTG100C or BUS160
BUS265  Managing Marketing Messages  10  N/A 2001  MKTG100C or BUS160 plus BUS260
BUS270  Creating Customer Satisfaction  10  2  MKTG100C or BUS160 plus BUS260
*plus elective subjects

300 level Marketing Major Sequence

BUS305  Strategic Integration & Implementation  10  N/A 2001

BUS367  E-Marketing  10  N/A 2001  MKTG100C or BUS160 plus BUS260
BUS367  Marketing Development & Directions  10  N/A 2001  MKTG100C or BUS160 plus BUS260, BUS270 and BUS362
*plus elective subjects

As well as the Core Subjects and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or other subjects offered by the Faculty of the Central Coast and/or subjects from outside the Faculty of the Central Coast. See list of subjects offered on the Central Coast Campus.

Compulsory Core and Major Sequence Subjects - Human Resource Management Major Sequence

100 level Human Resource Management Major Sequence

BUS180  Communication & E-Talk  10  1, 2
BUS185  Data, Decisions & Directions  10  2
BUS190  Electronic Business  10  1
Not to be taken in conjunction with INF0101C
BUS110  People and Profiles in Business  10  1
Not to be taken in conjunction with IRHR111C
BUS186  The Contemporary Commercial Environment  10  1, 2
*plus elective subjects

200 level Human Resource Management Major Sequence

BUS280  Managing for Performance  10  1
BUS290  Learning in Organisations  10  1  IRHR111C
BUS295  Corporate Significance of Human Resources  10  1
Not to be taken in conjunction with IRHR111C
BUS295  Leadership in Contemporary Organisations  10  2
*plus elective subjects

300 level Compulsory Major Sequence subjects

BUS305  Strategic Integration & Implementation  10  N/A 2001

plus:
BUS347  Global Challenge & Change  10  N/A 2001  IRHR111C
BUS347  Knowledge Management  10  N/A 2001
*plus elective subjects

As well as the Core Subject and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or other subjects offered by the Faculty of the Central Coast and/or subjects from outside the Faculty of the Central Coast. See list of subjects offered on the Central Coast Campus.

Compulsory Core and Major Sequence Subjects - Entrepreneurship Major Sequence

100 level Entrepreneurship Major Sequence

BUS180  Communication & E-Talk  10  1, 2
BUS185  Data, Decisions & Directions  10  2
BUS190  Electronic Business  10  1
Not to be taken in conjunction with INF0101C
BUS110  People and Profiles in Business  10  1
Not to be taken in conjunction with IRHR111C
BUS186  The Contemporary Commercial Environment  10  1, 2
IRHR110  Law for Managers and Entrepreneurs  10  2
*plus elective subjects

200 level Entrepreneurship Major Sequence

BUS280  New Venture Creation  10  2  IRHR111C
BUS280  Strategic Integration & Implementation  10  N/A 2001  MKTG100C or IRHR111C
BUS285  Value Creation Through Managerial Control  10  2
BUS280  Entrepreneurial Diversity  10  1
*plus elective subjects

As well as the Core Subjects and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or other subjects offered by the Faculty of the Central Coast and/or subjects from outside the Faculty of the Central Coast. See list of subjects offered on the Central Coast Campus.

Compulsory Core and Major Sequence Subjects - Sport and Club Management Major Sequence

100 level Sport and Club Management Major Sequence

BUS180  Communication & E-Talk  10  1, 2
BUS185  Data, Decisions & Directions  10  2
BUS190  Electronic Business  10  1
Not to be taken in conjunction with INF0101C
BUS110  People and Profiles in Business  10  1
Not to be taken in conjunction with IRHR111C
BUS186  The Contemporary Commercial Environment  10  1, 2
*plus elective subjects

200 level Sport and Club Management Major Sequence

BUS280  Hospitality Operations Management  10  1
BUS285  Contemporary Sport and Club Management  10  1
BUS295  Gaming Management  10  1
*plus elective subjects

200 level Sport and Club Management Major Sequence

BUS305  Strategic Integration & Implementation  10  N/A 2001

As well as the Core Subject and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or other subjects offered by the Faculty of the Central Coast and/or subjects from outside the Faculty of the Central Coast. See list of subjects offered on the Central Coast Campus.
As well as the Core Subjects and a Major Sequence, students must complete additional elective subjects which may include another approved Major Sequence, and/or other subjects offered by the Faculty of the Central Coast and/or subjects from outside the Faculty of the Central Coast. See Table 1 of subjects offered on the Central Coast Campus.

Compulsory Core and Major Subject Sequences - Information Technology Major Sequence

100 level Information Technology Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS180</td>
<td>Communication &amp; E-talk</td>
<td>10</td>
<td>1</td>
<td>ACFI101C</td>
</tr>
<tr>
<td>BUS185</td>
<td>Data, Decisions &amp; Directions</td>
<td>10</td>
<td>2</td>
<td>ACFI101C</td>
</tr>
<tr>
<td>BUS190</td>
<td>Electronic Business</td>
<td>10</td>
<td>1</td>
<td>ACFI101C</td>
</tr>
<tr>
<td>BUS110</td>
<td>People and Profiles in Business</td>
<td>10</td>
<td>1</td>
<td>ACFI101C</td>
</tr>
<tr>
<td>BUS196</td>
<td>The Contemporary Commercial Environment</td>
<td>10</td>
<td>1</td>
<td>ACFI101C</td>
</tr>
<tr>
<td>TAH103</td>
<td>Applications Programming</td>
<td>10</td>
<td>2</td>
<td>BUS190 or INFO101C</td>
</tr>
</tbody>
</table>

200 level Information Technology Major Sequence

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAE201</td>
<td>Advanced Programming</td>
<td>10</td>
<td>1</td>
<td>ACFI101C</td>
</tr>
<tr>
<td>BUS280</td>
<td>Information Systems Development</td>
<td>10</td>
<td>2</td>
<td>ACFI101C</td>
</tr>
</tbody>
</table>

300 level Compulsory Major Sequence subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS305</td>
<td>Strategic Integration &amp; Implementation</td>
<td>10</td>
<td>2001</td>
<td>ACFI101C</td>
</tr>
</tbody>
</table>

Note: ACFI codes were previously COMM; i.e., ACFI101C was COMM101, IRHR codes were previously EMP; i.e., IRHR111C was EMP111.

Subjects Offered on the Central Coast Campus

The following list includes subjects offered on the Central Coast Campus.

Note: ACFI codes were previously COMM; i.e., ACFI101C was COMM101, IRHR codes were previously EMP; i.e., IRHR111C was EMP111.
Not to be taken in conjunction with IRHR227C
Not to be taken in conjunction with BUS250
Not to be taken in conjunction with MKTG226C
Not to be taken in conjunction with MKTG341C
Not to be taken in conjunction with MKTG201C
Not to be taken in conjunction with MENT200

Subject to availability of IT resources

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semster</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF101C</td>
<td>Financial Accounting Theory Construction</td>
<td>10</td>
<td>1</td>
<td>ACF102C</td>
</tr>
<tr>
<td>ACF102C</td>
<td>Reconstruction of Accounting</td>
<td>10</td>
<td>2</td>
<td>ACF103C</td>
</tr>
<tr>
<td>ACF103C</td>
<td>Accounting and Decision Support Systems</td>
<td>10</td>
<td>2</td>
<td>ACF104C</td>
</tr>
<tr>
<td>ACF104C</td>
<td>Auditing Theory &amp; Method</td>
<td>10</td>
<td>1</td>
<td>ACF105C</td>
</tr>
<tr>
<td>ACF105C</td>
<td>Taxation II</td>
<td>10</td>
<td>2</td>
<td>ACF106C</td>
</tr>
<tr>
<td>ACF121C</td>
<td>International Accounting</td>
<td>10</td>
<td>1</td>
<td>ACF122C</td>
</tr>
<tr>
<td>ACF122C</td>
<td>International Accounting</td>
<td>10</td>
<td>1</td>
<td>ACF123C</td>
</tr>
<tr>
<td>ACF131C</td>
<td>Behavioral, Organizational and Social Aspects of Accounting</td>
<td>10</td>
<td>1</td>
<td>ACF132C</td>
</tr>
<tr>
<td>ACF132C</td>
<td>Behavioral, Organizational and Social Aspects of Accounting</td>
<td>10</td>
<td>1</td>
<td>ACF133C</td>
</tr>
<tr>
<td>ACF133C</td>
<td>Accounting Theory</td>
<td>10</td>
<td>1</td>
<td>ACF134C</td>
</tr>
</tbody>
</table>

Schedule

Qualification for the Degree of Bachelor of Management

1. To qualify for admission to the degree, a candidate shall complete a program approved by the Faculty Board consisting of not less than 240 credit points from the List of Approved Subjects, and including:

(a) the Core Subjects prescribed for the course by the Faculty Board;
Bachelor of Mathematics

Award Abbreviation: BMath

The Bachelor of Mathematics is offered by the Faculty of Science and Mathematics. The degree course offers a flexible program with a strong Mathematics content. The program may include studies in closely related subject areas such as Statistics, Computer Science, Physics and Finance but none of these are compulsory. There is also the possibility of studying something totally different such as French or Drama.

Mathematicians find work in industry, international finance, merchant banking, medicine and the public sector. Graduates often enter the fields of research, management and strategic planning, or work in insurance companies, the futures market and corporate investment enterprises. Graduates with a co-major in finance will be well equipped for work in the financial sector in areas such as securities analysis, risk management, portfolio management, the options market, futures market and mergers and acquisitions. Skills in Mathematics are of value wherever real world problems in areas such as manufacturing and scheduling have to be solved.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information, contact articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/ouad/tafecreditdisc.htm.

Course Structure

The degree is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totalling 240 credit points.

In order to make up a normal full-time load of 80 credit points in their first year, students enrol in the subjects Advanced Mathematics 121 (Math121) and Advanced Mathematics 122 (Math122) and other appropriate subjects. The other subjects may form the basis for a major study of a second discipline in later years. For students with an unorthodox mathematics background, there is an alternative pathway via Mathematics 111 (Math111), Mathematics 112 (Math112) and the 200 level subject Advanced Mathematics 2 (Math230).

Core mathematics and statistics subjects required in Year 1 (200 level) are complemented by electives chosen from Mathematics, Statistics and/or other subject areas. A major sequence of study in Mathematics or Statistics must be completed in Year 2 (300 level) with the balance of the program selected from Mathematics, Statistics and/or other subject areas. A minimum of 60 credit points must be taken at 300 level.

Following is an example of a degree pattern in which Mathematics and finance are taken as major sequences. Other programs will reflect the particular interests and career choice of the student.

Year 1 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH121</td>
<td>Advanced Mathematics 121</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH122</td>
<td>Advanced Mathematics 122</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>ACH102</td>
<td>Financial Management</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>IRIR111</td>
<td>Introduction to Management &amp; Organisational Behaviour</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
<td>10</td>
<td>4</td>
</tr>
</tbody>
</table>

Year 2 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH201</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MATH203</td>
<td>Ordinary Differential Equations 1</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>MATH208</td>
<td>Linear Algebra</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>MATH121</td>
<td>Advanced Mathematics 121</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>MATH122</td>
<td>Advanced Mathematics 122</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>ACH102</td>
<td>Financial Management</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>IRIR111</td>
<td>Introduction to Management &amp; Organisational Behaviour</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>

Year 3 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH201</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MATH203</td>
<td>Ordinary Differential Equations 1</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>MATH208</td>
<td>Linear Algebra</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>MATH121</td>
<td>Advanced Mathematics 121</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>MATH122</td>
<td>Advanced Mathematics 122</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>ACH102</td>
<td>Financial Management</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>IRIR111</td>
<td>Introduction to Management &amp; Organisational Behaviour</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH123</td>
<td>Advanced Mathematics 123</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MATH124</td>
<td>Advanced Mathematics 124</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACH101</td>
<td>Financial Accounting</td>
<td>10</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ACH102</td>
<td>Financial Management</td>
<td>10</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics</td>
<td>10</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics</td>
<td>10</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>IRIR111</td>
<td>Introduction to Management &amp; Organisational Behaviour</td>
<td>10</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>MKTG100</td>
<td>Marketing Principles</td>
<td>10</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Concurrent Assumed Knowledge (Cr):
3. (1) Except with the permission of the Faculty Board, a candidate shall complete the course within nine years of study, from its commencement.
(2) A candidate who has been granted credit shall be deemed to have commenced the course from a date determined by the Dean at the time at which credit is granted.

Combined Degrees
A candidate may undertake one of the following combined degree programs in accordance with Rule 12 of the Rules Governing Academic awards, namely:
- Mathematics/Arts;
- Mathematics/Commerce;
- Mathematics/Engineering;
- Mathematics/Economics;
- Mathematics/Computer Science;
- Mathematics/Surveying;
- Mathematics/Science.

Bachelor of Mathematics (Honours)

Award Abbreviation: BMath(Hons)

The Bachelor of Mathematics (Honours) is offered by the Faculty of Science and Mathematics. The program is available in the specialisations of Mathematics and Statistics.

Admission Requirements
To be eligible for admission to the Honours program, students must have:
- a completed Bachelor of Mathematics degree (or equivalent);
- a credit grade average in at least 40 credit points of 300 level Mathematics or Statistics subjects; and
- permission of the Head of School.

In exceptional circumstances, this requirement may be varied with the permission of the Dean.

Course Structure
The Honours program is normally undertaken over one year of full-time study or two years part-time.

Students are required to complete 80 credit points in either Mathematics or Statistics. However, it is possible to combine Mathematics with one of the following: Chemistry, Computer Science, Economics, Geology, Physics, Psychology, Statistics or one of the disciplines offered in the Bachelor of Arts (Honours) by the Faculty of Arts and Social Science.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH411</td>
<td>Mathematics Honours 413</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>MATH412</td>
<td>Mathematics Honours 412</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>MATH421</td>
<td>Mathematics Honours 421</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>MATH422</td>
<td>Mathematics Honours 422</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STA431</td>
<td>Statistics Honours 1</td>
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</tr>
<tr>
<td>STA432</td>
<td>Statistics Honours 2</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STA433</td>
<td>Statistics Honours 3</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STA434</td>
<td>Statistics Honours 4</td>
<td>20</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Schedule

Admission to Candidature
1. A candidate may undertake the Honours Degree in either one or two disciplines.
2. In order to be admitted to candidature for the Degree in a single discipline an applicant shall:
   - have completed the requirements for admission to the Ordinary Degree of Bachelor of Mathematics of the University or to any other degree approved by the Faculty Board; and
   - have completed such other work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department responsible for the discipline.
Bachelor of Mathematics/Bachelor of Computer Science

Award Abbreviations: BMath, BCompSc

The Bachelor of Mathematics/Bachelor of Computer Science combined degree program is offered by the Faculty of Science and Mathematics and the Faculty of Engineering. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFENSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/ouss/aau/tafecredit/index.htm

Course Structure

The Bachelor of Mathematics/Bachelor of Computer Science combined degree program comprises subjects with a total of 320 credit points. To meet the current requirements of this combined degree program, students must complete the program of study set out below. Within this program, students have the opportunity to select electives according to their individual areas of interest.

The following program of study has been agreed between the Faculty of Science and Mathematics and the Faculty of Engineering based on 2001 course requirements. It may be varied as a result of future changes in course requirements or by agreement of the Deans of both Faculties.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program requirements.

Subject Code | Subject Name | Credit Points | Semesters
--- | --- | --- | ---
Year 1 (80 credit points)
MATH121 | Advanced Mathematics 121 | 10 | 1
MATH151 | Discrete Mathematics | 10 | 1
SING111 | Introduction to Software Engineering 1 | 10 | 1
SING112 | Introduction to Software Engineering 2 | 10 | 2
SING114 | The Online Society | 10 | 2
MATH122 | Advanced Mathematics 122 | 10 | 2
100 level General Electives | 20 | 1, 2

Year 2 (80 credit points)
COMP223 | Introduction to Algorithms | 10 | 1
SENG211 | Software Analysis and Verification | 10 | 1
MATH201 | Multivariable Calculus | 5 | 1
MATH208 | Linear Algebra | 5 | 1
MATH220 | Analytic Methods 1 | 5 | 1
MATH227 | Algebraic Methods 1 | 5 | 1
MATH242 | Numerical Methods | 19 | 2
MATH273 | Operations Management | 10 | 1
SENG212 | Software Process | 10 | 2

Year 3 (60 credit points)
MATH300 level subjects | 30 | 1, 2
300 level Computer Science | 10 | 1, 2
Directed Electives | 30 | 1, 2

Year 4 (60 credit points)
MATH300 level subjects | 10 | 1 or 2
300 level Computer Science Directed Electives | 30 | 1, 2
8 Mathematics 300 level subjects | 10 | 1, 2
8 Mathematics 300 level subjects | 20 | 1, 2
300 level General Electives | 10 | 1, 2

Total of 320 Credit Points

For details of approved computer science subjects and directed electives refer to the Bachelor of Computer Science.

Bachelor of Mathematics/Bachelor of Science

Award Abbreviations: BMath, BSc

The Bachelor of Science/Bachelor of Mathematics combined degree program is offered by the Faculty of Science and Mathematics. The program provides students with an opportunity to undertake concurrent study and to complete two awards.

In general, a combined degree program offers greater breadth of learning, enhancing the academic and professional qualities gained in each separate degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFENSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/ouss/aau/tafecredit/index.htm

Course Structure

The Bachelor of Science/Bachelor of Mathematics combined degree program comprises subjects with a total of 320 credit points. The program can be undertaken over four years of full-time study or the part-time equivalent.

To meet the current requirements of this combined degree program, students must complete a program of study that conforms to the structure set out below. Within this program, students have the opportunity to select electives according to their individual areas of interest.

The program of study is based on 2001 course requirements and may be varied as a result of future changes. Students are advised to contact the Faculty Office for assistance when planning their academic program.

Compulsory

100 Level Subjects

Up to 100 credit points, including:
- two Bachelor of Science Group A subjects selected from each of two of the following disciplines: Biological Sciences, Chemistry, Geography, Geology, Physics and Psychology (that is, 40 credit points - for example, BIOL101/102 and GEOL101/102); and Advanced Mathematics 121 and Advanced Mathematics 122

200 Level Subjects

30 credit points of Bachelor of Science Group A subjects selected from one of the following disciplines: Biological Sciences, Chemistry, Geography, Geology, Physics and Psychology, and any other discipline approved by the Faculty, or

- 45 credit points comprising: Multivariable Calculus, Ordinary Differential Equations, Linear Algebra, Analytical Methods, Algebraic Methods and Functions, Mathematical Software or Operations Management or

- Ecological Modelling and Dynamical Systems and Numerical Techniques

- Ecological Modelling and Dynamical Systems and Numerical Techniques
Bachelor of Medical Radiation Science (Diagnostic Radiography)

Award Abbreviation: BMedRadSc

The Bachelor of Medical Radiation Science (Diagnostic Radiography) is offered by the Faculty of Medicine and Health Sciences. Medical Radiation Science (MRTS) is the field of clinical practice, education and research that deals with the use of imaging and non-ionizing radiation for the purpose of investigation, diagnosis, and treatment of human illness.

Diagnostic Radiography is the professional practice of conducting a range of diagnostic examinations using imaging or non-imaging radiation. This may be done to produce an image to confirm or exclude a clinical diagnosis; to assist in and monitor treatment processes; for general or specific screening programs; or for research.

Medical imaging procedures may include: patient assessment and image evaluation, general radiography, fluoroscopy; angiography; interventional radiography; computed tomography; computed radiography; mammography; ultrasound; magnetic resonance imaging; nuclear medicine, continuing quality improvement of practice and procedures.

The Bachelor of Medical Radiation Science is conducted over three years of full-time study involving an integrated approach to the theoretical, practical and clinical components of the course.

The course aims to develop life long learners, with generic and specific understanding, attitudes, knowledge and skills, and to equip graduates with the ability to work efficiently and effectively as part of a multidisciplinary team, to participate at an introductory capacity in professionally based research. The course also develops the foundation for entry to postgraduate studies at university. Life long learning is supported by: promoting self-direction in learning and self-responsibility for learning; promoting evidence-based practice as a dominant means of decision making and of incorporating evidence into practice; and fostering professional skills that will allow a graduate to contribute positively to clinical and academic practice.

Extensive clinical experience is integrated throughout the course, commencing in first year, and can include placement in the Hunter Region, NSW Australia or overseas. Centres can include major teaching hospitals, small rural hospitals, and private practices. The cost of travel, accommodation and related expenses are the student’s responsibility.

The course is accredited by the Australian Institute of Radiography. A professional year is required for all graduates after graduation from university. Graduates, after satisfying professional accreditation, accept positions worldwide. Australia is recognised as a leader worldwide in MRT education and practice.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/univ/tafecredit/tafeindex.htm

Course Structure

Qualification for the award of Bachelor of Medical Radiation Science requires the completion of 240 credit points. For information about semester of offer and assumed knowledge see the list of Course Subjects following.

The degree may be conferred with Merit to meritorious students: Total Grade Point Average (3.5/7). An Honours degree is also available as an additional year (or part-time equivalent).

Course Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester*</th>
<th>Assumed Knowledge (AK) Concurrent Assumed Knowledge (CK)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUB103</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>20</td>
<td>Full year</td>
<td></td>
</tr>
<tr>
<td>MRT101</td>
<td>MRI Physics, Radiation Biology and Protection</td>
<td>15</td>
<td>Full year</td>
<td></td>
</tr>
<tr>
<td>MRT102</td>
<td>MRI Instrumentation</td>
<td>10</td>
<td>Full year</td>
<td></td>
</tr>
<tr>
<td>MRT104</td>
<td>Medical Radiation Techniques</td>
<td>20</td>
<td>Full year</td>
<td></td>
</tr>
<tr>
<td>MRT105</td>
<td>Clinical Applications I</td>
<td>3</td>
<td>Full year</td>
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</tr>
<tr>
<td>MRT106</td>
<td>MRI Computing</td>
<td>5</td>
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</tr>
<tr>
<td>MR1107</td>
<td>MRI Patient Care</td>
<td>5</td>
<td>1</td>
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</tr>
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<td></td>
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<tr>
<td>MRT103</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>15</td>
<td>Full year</td>
<td>HUB103</td>
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<tr>
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<td>15</td>
<td>Full year</td>
<td>MRT104, MRT105** CK: MRT103</td>
</tr>
<tr>
<td>MRT106</td>
<td>Diagnostic Instrumentation</td>
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<td>MRT104, MRT105** CK: MRT103</td>
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<tr>
<td>MRT107</td>
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<td>20</td>
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<td>MRT104 CK: MRT103</td>
</tr>
<tr>
<td>MR1105</td>
<td>Pathology for MRT</td>
<td>10</td>
<td>Full year</td>
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<tr>
<td>MR1176</td>
<td>Imaging Physics</td>
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<td>HUB103</td>
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<td>Year 3</td>
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<td>AMT103</td>
<td>Sectional Anatomy</td>
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<td>Full year</td>
<td>ANAT210</td>
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<td>AMT105</td>
<td>Clinical Applications III</td>
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<td>Full year</td>
<td>MRT105* CK: MRT103</td>
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<td>MR1113</td>
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<td>Digital Imaging</td>
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<td>GCA249</td>
<td>Social Issues in Health Care</td>
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</tr>
</tbody>
</table>

*Semester of offer may vary.
** The Faculty considers these subjects to be compulsory prerequisites.

Schedule

Specialisations:
1. The program of studies for the Degree shall be pursued in one of the following specialisations:
   - Diagnostic Radiography
   - Nuclear Medicine
   - Radiation Therapy

Admission to Candidature
2. Applicants who satisfy the academic requirements for admission to candidature shall be required to undertake selection assessment.
3. (1) The selection assessment shall consist of:
   (a) the submission of such written work; and
   (b) the attendance at such interviews as determined by the Faculty Board.
(2) Applicants who do not submit work or attend the University as required as part of the selection assessment shall be deemed to have withdrawn their applications unless a reason acceptable to the University Secretary and Registrar is provided.
4. Applicants shall be ranked in descending order of merit for each specialisation on the basis of previous academic performance and results determined by the Faculty Board arising out of the selection assessment.
5. The University Secretary and Registrar shall ensure that offers of admission are made in descending rank order to applicants ranked under clause 4, such that the places available in the course each year are filled.

Qualification for Admission to the Degree
6. To qualify for admission to the Degree a candidate shall pass the program of study approved by the Faculty Board consisting of subjects totalling 240 credit points.

Grading of the Degree
7. The Degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the Degree may be conferred with Merit.

Credit
8. In addition to the provisions of Rule 7 of the Rules Governing Academic Awards, a candidate who has completed the requirements
BSc 1512 BMedRadSc(Hon)

The Bachelor of Medical Radiation Science (Honours) is offered by the Faculty of Medicine and Health Sciences. Medical Radiation Science (BMedRadSc) is the field of clinical practice, education, and research, that deals with the use of ionizing and non-ionizing radiation for the purpose of investigation, diagnosis, and treatment of human illness.

Nuclear Medicine involves the imaging of the internal structures of a patient’s body, for the purpose of diagnosing and/or treating abnormalities, using an injection of radioactive materials which then become the source of radiation. Nuclear Medicine imaging is particularly useful for investigating the function of body systems. Nuclear Medicine technologists work closely with other health care professionals to ensure that the best possible quality imaging procedures are performed so that the benefits to the patient is optimised.

Nuclear Medicine procedures may be performed on any organ system in the body. This may include:
- *SPECT* imaging (used to investigate a large number of illnesses, ranging from sports injuries to cancer)
- *cardiac function* imaging (used to diagnose heart attacks and determine whether the damage can be repaired by surgery)
- *brain* imaging (used to establish the epicentre of epilepsy in order to allow accurate surgical intervention)
- *SPECT* and/or *PET* technology to produce and analyse three-dimensional images which allow an accurate diagnosis of the patient’s illness

The course aims to develop lifelong learners, with generic and specific understanding (knowledge, skills and attitudes). This understanding will enable a graduate to practice as a Medical Radiation Science professional within a multidisciplinary health care team, and to participate at an introductory capacity in professionally based research. The course also develops the foundation for entry to postgraduate studies at university. Life-long learning is supported by promoting self-direction in learning and self-responsibility of learning, providing evidence-based practice as a dominant means of decision making and of incorporating evidence into practice, and fostering professional skills that will allow a graduate to input positively into clinical and academic practices.

The Bachelor of Medical Radiation Science (BMedRadSc) is conducted over three years of full-time study involving an integrated approach to the theoretical, practical and clinical components of the course. Extensive clinical experience is integrated throughout the course commencing in its first year, and can include placement in the Hunter Region, NSW, Australia or overseas. Centres can include major teaching hospitals, small rural hospitals, and private practices. The cost of travel, accommodation and related expenses are the student's responsibility.

The course is accredited by the Australian Institute of Radiography. A professional year is required for all graduates after graduation from university. Graduates after satisfying professional accreditation, accept positions worldwide, Australia is recognised as a leader world-wide in MRS education and practice.

Graduates are employed in public and private Medical Imaging, Nuclear Medicine, and Radiation Oncology (Cancer Care) facilities. MRS professionals assume clinical roles from graduate practitioners through to experts and specialists. They assume upper level management roles such as Directors of MRS services both within the public and private sectors. MRS professionals assume roles within higher education as well as assume research roles.

**TAFE Credit**

TAFE credit arrangements exist with TAFE NSW and other education providers under continuous negotiation. For more information, please see the University’s website, at http://www.newcastle.edu.au/services/oua/tafedirect/index.htm

### Course Structure

Qualification for the award of Bachelor of Medical Radiation Science requires the completion of 240 credit points. For information about semester of offer and assessed knowledge please see the list of Course Subjects following.

The degree may be conferred with Merit to meritorious students: Total Grade Point Average 95-99%. An Honours degree is also available as an additional year (or part-time equivalent).

#### Course Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge (A)</th>
<th>Assumed Knowledge (C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRTT301</td>
<td>Human Anatomy &amp; Physiology</td>
<td>20</td>
<td>Full year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRTC101</td>
<td>MRT Physics, Radiation Biology and Protection</td>
<td>15</td>
<td>Full year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRTC102</td>
<td>MRT Instrumentation</td>
<td>10</td>
<td>Full year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRTC104</td>
<td>Medical Radiation Techniques</td>
<td>20</td>
<td>Full year</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Schedule

1. The program of studies for the Degree shall be pursued in one of the following specialisations:
   - Diagnostic Radiography
   - Nuclear Medicine
   - Radiation Therapy

Admission to Candidature

2. Applicants who satisfy the academic requirements for admission to candidature shall be required to undertake selection assessment.

3. The selection assessment shall consist of:
   - the submission of such written work and
   - the attendance at such interviews as the Faculty Board shall determine.

4. Applicants who do not submit work or attend the University as required as part of the selection assessment shall be deemed to have withdrawn their applications unless a reason acceptable to the University Secretary and Registrar is provided.

5. Applicants shall be ranked in descending order of merit for each specialisation on the basis of previous academic performance and results determined by the Faculty Board arising out of the selection assessment.

6. The University Secretary and Registrar shall ensure that offers of admission are made in descending rank in order to applicants ranked under clause 4, such that the places available in the course each year are filled.

Qualification for Admission to the Degree

6. To qualify for admission to the Degree a candidate shall pass the program of study approved by the Faculty Board consisting of subjects located 240 credit points.

Grading of the Degree

7. The Degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the Degree may be conferred with Merits.

Credit

8. In addition to the provisions of Rule 7 of the Rules Governing Academic Awards, a candidate who has completed the requirement for the award of the Diploma of Applied Science (Medical Radiation Technology) in the same specialisation may be granted credit by the Faculty Board for all subjects passed in that course.

Time Requirements

9. (1) Except with the permission of the Dean, a candidate shall complete the course in not more than four years of study.

   (2) A candidate who has been granted credit shall be deemed to have commenced the course from a date determined by the Dean at the time the credit is granted.

* Students graduating from the course who first enrolled prior to 1997 may elect to receive either the Bachelor of Applied Science (Medical Radiation Technology) or the Bachelor of Medical Radiation Science.

Bachelor of Medical Radiation Science (Radiation Therapy)

Award Abbreviation: BMedRadSc

The Bachelor of Medical Radiation Science (Radiation Therapy) is offered by the faculty of Medicine and Health Sciences. Medical Radiation Science (MRS) is the field of clinical practice, education, and research that deals with the use of ionising and non-ionising radiation for the purpose of investigation, diagnosis, and treatment of human illness.

Radiation Therapy is the treatment by radiation of malignant and benign disease. This may be done: to cure disease; to palliate the symptoms and signs of disease; as a primary treatment modality, in combination with other treatment strategies to improve quality of life; or for research.

- Radiation therapy procedures may include: patient assessment, education and support during treatment;
- simulation (locating the precise area to which the radiation beam should be directed);
- patient satisfaction and treatment planning (developing the treatment plan);
- treatment by superficial to mega-voltage external beam treatment;
- brachytherapy treatment;
- continuing quality improvement of practice and procedures;
- ancillary equipment development and construction (methods to better define the radiation fields and provide immobilisation of the treatment site);
- a range of procedures and advice to establish and maintain patient well-being (diet, counselling, hygiene, quality of life).

The course aims to develop lifelong learners, with generic and specific understanding, skills and attitudes. This understanding will enable a graduate to practice as a Medical Radiation Science professional within a multidisciplinary healthcare team, and to participate at an introductory capacity in professionally based research. The course also develops the foundation for entry to postgraduate studies at university. Life-long learning is supported by: promoting professional skills that will allow a graduate to contribute positively to clinical and academic practices.

The Bachelor of Medical Radiation Science is conducted over a period of three years of full-time study involving an integrated approach to the theoretical, practical and clinical components of the course.

Extensive clinical experience is integrated throughout the course commencing in first year, and can include placement in the Hunter Region, NSW, Australia or overseas. Centres can include major teaching hospitals, small rural hospitals, and private practices. The cost of travel, accommodation and related expenses are the student's responsibility.

The course is accredited by the Australian Institute of Radiography. A professional year is required for all graduates after graduation from university.

Graduates are employed in public and private Imaging, Nuclear Medicine, and Radiology Oncology (Cancer Care) facilities. MRS professionals assume clinical roles from graduate practitioners through to experts and specialists, they assume upper level management roles such as Chiefs or Directors of MRS services both within the public and private sector. MRS professionals assume roles within higher education as well as role research.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oustr/tafecred/index.htm

Course Structure

Qualification for the award of Bachelor of Medical Radiation Science requires the completion of 240 credit points. For information about waiver of offer, prior assumed knowledge and concurrent assumed knowledge see the list of Course Subjects following. The degree may be conferred with Merits to meritorious students; Total Grade Point Average 5.5/7.

An Honours degree is also available as an additional year (or part time equivalent).
**Course Subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester*</th>
<th>Assumed Knowledge</th>
</tr>
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<tbody>
<tr>
<td>HUBS103</td>
<td>Human Anatomy and Physiology I</td>
<td>20</td>
<td>Full year</td>
<td>Concurrent Assumed Knowledge (Ci)</td>
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<tr>
<td>MRTC101</td>
<td>MRI, Physics, Radiation Biology and Protection</td>
<td>15</td>
<td>Full year</td>
<td></td>
</tr>
<tr>
<td>MRTC102</td>
<td>MRI, Instrumentation</td>
<td>10</td>
<td>Full year</td>
<td></td>
</tr>
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<td>MRTC104</td>
<td>Medical Radiation Techniques</td>
<td>20</td>
<td>Full year</td>
<td></td>
</tr>
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<td>MRTC105</td>
<td>Clinical Applications I</td>
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<td>Full year</td>
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</tr>
<tr>
<td>MRTC106</td>
<td>MRI, Computing</td>
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<tr>
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<td>Radiation Therapy Instrumentation</td>
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<td>MRTC213</td>
<td>Oncological Principles I</td>
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<td>PATH204</td>
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<td>HUBS103</td>
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<td>ANAT303</td>
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<td>MRTC306</td>
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<td>Oncological Principles II</td>
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<td>MRTC316</td>
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<td>Social Issues in Health Care</td>
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* Semester of offer may vary.

**Schedule**

**Specialisations**

1. The program of studies for the Degree shall be pursued in one of the following specialisations:
   - Diagnostic Radiography
   - Nuclear Medicine
   - Radiation Therapy

**Admission to Candidature**

2. Applicants who satisfy the academic requirements for admission to candidacy shall be required to undertake selection assessment.
3. (1) The selection assessment shall consist of:
   a. the submission of such written work, and
   b. the attendance at such interviews, as the Faculty Board shall determine.
4. Applicants who do not submit work or attend the University as required as part of the selection assessment shall be deemed to have withdrawn their applications unless a reason acceptable to the University Secretary and Registrar is provided.
5. Applicants shall be ranked in descending order of merit for each specialisation on the basis of previous academic performance and results determined by the Faculty Board arising out of the selection assessment.
6. The University Secretary and Registrar shall ensure that offers of admission are made in descending rank order to applicants in the specialty with the highest rank, subject to the availability of adequate places. Students who do not submit work or attend the University as required as part of the selection assessment shall be ranked in descending order of merit for each specialisation.

**Qualification for Admission to the Degree**

6. To qualify for admission to the Degree a candidate shall pass the program of study approved by the Faculty Board consisting of subjects totalling 240 credit points.

**Grading of the Degree**

7. The Degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the Degree may be conferred with Merit.
(a) have passed subjects totalling at least 240 credit points (with a grade point average of 5.5/7) in the course leading to the Degree of Bachelor of Health Science (Occupational Therapy), Bachelor of Health Science (Nutrition and Dietetics), Bachelor of Science or other approved program in the University; or
(b) have passed at least three years (with a grade point average of 5.5/7) of a course leading to an equivalent degree in Occupational Therapy, Nutrition and Dietetics, Science or other approved program in another university recognised for this purpose by the Faculty Board.

Re-enrollment
5. Except with the permission of the Faculty Board, given only in exceptional circumstances, a candidate who withdraws from the course will not be permitted to re-enroll in the course.

Time Requirements
6. A candidate shall complete the course in not more than two years of study unless otherwise permitted by the Faculty Board.

Part 2 - Provisions Relating to the Degree by Research in a Recognised Discipline

Admission to Candidature
7. Faculty Board shall consider the recommendations of the co-ordinator with respect to an application for admission and if satisfied that facilities and supervision are adequate for the proposed program, approve the application.

Qualification for Admission to the Degree
8. To qualify for admission to the Degree a candidate shall complete to the satisfaction of the Faculty Board a program totalling 80 credit points consisting of such work and examinations as may be prescribed by the Faculty Board including a thesis embodying the results of a research project.

Grading of Degree
9. (1) The Degree shall be conferred as an Honours Degree only.
(2) There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division (i) and Division (ii).
(3) The Faculty Board shall determine the grade of Honours to be awarded to a candidate after considering the recommendation of the co-ordinator.

Part 3 - Provisions Relating to the Degree by Coursework in Community Health

Qualification for Admission to the Degree
10. To qualify for admission to the degree a candidate shall pass the program of study approved by the Faculty Board totalling 80 credit points.

Grading of Degree
11. (1) The degree shall be conferred as an Honours Degree only.
(2) There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division (i) and Division (ii).
(3) The Faculty Board shall determine the grade of Honours to be awarded to a candidate after considering the recommendation of the co-ordinator.

Bachelor of Medical Science in Community Health

Award Abbreviation: BMedSc(CommHlth)

The Bachelor of Medical Science in Community Health is offered by the Faculty of Medicine and Health Sciences. This degree is a variation on the Bachelor of Medical Science and combines both theoretical and practical experience in some aspect of community health. Its purpose is to give students some insight into community health research. It offers students formal training in both Clinical Epidemiology and Biostatistics and the opportunity for practical exposure to a community health issue. The nature of this will vary from student to student and may include Aboriginal health, rural general practice, occupational health or other options.

In some cases it is possible for students to gain this experience in the more conventional Bachelor of Medical Science degree. In many cases, however, conducting research in the community setting requires a long period of planning and liaison with the community which may not be achievable during the limited time available for the Bachelor of Medical Science.

Course Structure

This program is normally undertaken in one year of full-time study or two years of part-time study.

Course Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCEB421</td>
<td>Epidemiology</td>
<td>20</td>
<td>Full year</td>
<td>3 year degree studies</td>
</tr>
<tr>
<td>CCEB451</td>
<td>Biostatistics</td>
<td>20</td>
<td>Full year</td>
<td>3 year degree studies</td>
</tr>
<tr>
<td>MIDG41</td>
<td>Health Initiative</td>
<td>40</td>
<td>1, 2, or Full year</td>
<td>3 year degree studies</td>
</tr>
</tbody>
</table>

Schedule

Part 1 - General Provisions

Interpretation
1. In this Schedule unless the context or subject matter otherwise indicates or requires:
   - co-ordinator means the co-ordinator for the program.
   - candidates for the degree may:
     (a) pursue a program of research in a single discipline or combination of disciplines recognised by the Faculty Board; or
     (b) pursue a program of study in Community Health.

Appointment of Co-ordinator
3. The Faculty Board shall appoint a member of full-time academic staff of the Faculty as co-ordinator for a period to be determined by the Faculty Board.

Admission to Candidature
4. To be eligible for admission to candidature, an applicant shall:
   (a) have passed subjects totalling at least 240 credit points in the course leading to the Degree of Bachelor of Medicine in the University; or
   (b) have passed at least three years of a course leading to an equivalent degree in another university recognised for this purpose by the Faculty Board; or
   (c) have passed subjects totalling at least 240 credit points (with a grade point average of 5.5/7) in the course leading to the Degree of Bachelor of Health Science (Occupational Therapy), Bachelor of Health Science (Nutrition and Dietetics), Bachelor of Science or other approved program in the University; or
   (d) have passed at least three years (with a grade point average of 5.5/7) of a course leading to an equivalent degree in Occupational Therapy, Nutrition and Dietetics, Science or other approved program in another university recognised for this purpose by the Faculty Board.

Re-enrollment
5. Except with the permission of the Faculty Board, given only in exceptional circumstances, a candidate who withdraws from the course will not be permitted to re-enroll in the course.

Time Requirements
6. A candidate shall complete the course in not more than two years of study unless otherwise permitted by the Faculty Board.

Part 2 - Provisions Relating to the Degree by Research in a Recognised Discipline

Admission to Candidature
7. Faculty Board shall consider the recommendations of the co-ordinator with respect to an application for admission and if satisfied that facilities and supervision are adequate for the proposed program, approve the application.

Qualification for Admission to the Degree
8. To qualify for admission to the Degree a candidate shall complete to the satisfaction of the Faculty Board a program totalling 80 credit points consisting of such work and examinations as may be prescribed by the Faculty Board including a thesis embodying the results of a research project.

Grading of Degree
9. (1) The Degree shall be conferred as an Honours Degree only.
(2) There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division (i) and Division (ii).
(3) The Faculty Board shall determine the grade of Honours to be awarded to a candidate after considering the recommendation of the co-ordinator.

Part 3 - Provisions Relating to the Degree by Coursework in Community Health

Qualification for Admission to the Degree
10. To qualify for admission to the degree a candidate shall pass the program of study approved by the Faculty Board totalling 80 credit points.
Bachelor of Medicine

Award Abbreviation: BMed

The Bachelor of Medicine is offered by the Faculty of Medicine and Health Sciences. The Bachelor of Medicine course at the University of Newcastle has pioneered an innovative curriculum that provides a range of exciting opportunities for students of medicine.

The curriculum is based on the concept of problem-based learning, with students working in small groups to solve clinical problems, and acquiring an understanding of basic science and disease mechanisms in processes. Clinical and basic sciences are integrated throughout the course, taught as separate subjects, with all students enrolling in the same set of core subjects. From the beginning of the course, students are in contact with patients, gaining clinical experience in many of the region’s hospitals and in medical practices.

The Bachelor of Medicine is a five-year course. After completing a one-year internship, graduates can be registered for medical practice in all Australian states; the degree is currently recognized in the United Kingdom and New Zealand, and registration may be possible in other countries after passing an examination set by the registration boards of those countries.

Course Structure

To qualify for the degree of Bachelor of Medicine, students must successfully complete subjects totaling 480 credit points. Each year 80 credit points of subjects are organized into ‘Blocks’ in Years 1–3, and into clinical attachments in Years 4 and 5. During elective periods in Years 1, 2, 3, 4 and 5, students may study topics of their own choice in greater depth, subject to Faculty approval. Many students take overseas electives, some in developing countries.

This program is normally undertaken over five years of full-time study, in exceptional circumstances arising in individual cases, students may be permitted to enrol in “part” subjects.

Course Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>MED101</td>
<td>Medicine I</td>
<td>80</td>
<td>Full year</td>
<td>MED101</td>
</tr>
<tr>
<td>MED102</td>
<td>Medicine II</td>
<td>80</td>
<td>Full year</td>
<td>MED101</td>
</tr>
<tr>
<td>MED201</td>
<td>Medicine III</td>
<td>80</td>
<td>Full year</td>
<td>MED201</td>
</tr>
<tr>
<td>MED202</td>
<td>Medicine IV</td>
<td>80</td>
<td>Full year</td>
<td>MED202</td>
</tr>
<tr>
<td>MED203</td>
<td>Medicine V</td>
<td>80</td>
<td>Full year</td>
<td>MED203</td>
</tr>
</tbody>
</table>

Schedule

Admission to Candidature
1. An applicant for admission to candidature shall satisfy the Rules Governing Admission to the Bachelor of Medicine Courses.

Enrolment
2. In any year a candidate will enrol in at least 80 credit points unless granted the permission of the Faculty Board to enrol in fewer.

Qualification for Admission to the Degree
3. To qualify for admission to the degree a candidate shall pass the program of study approved by the Faculty Board totaling 480 credit points.

Grading of Degree
4. The grade shall be conferred as an Ordinary Degree except that in cases where a candidate’s performance has reached a standard determined by the Faculty Board, the degree may be conferred with Honours.

Credit
5. Credit will not be granted to candidates in any subject for work completed in other faculties of the University or elsewhere.

Absence
6. (a) If the withdrawal or absence without leave occurred before the successful completion of the first year of the course, may be required by the Faculty Board to re-enrol for admission to candidature under the Rules Governing Admission to the Bachelor of Medicine Course.

Resumption of Studies
7. A candidate who enrols in the Bachelor of Medical Science Degree shall not be deemed to be absent from the course and shall be permitted to re-enrol the same year immediately following with full credit for all subjects successfully completed prior to undertaking the Bachelor of Medical Science Degree.

8. A candidate who withdraws from the course or is absent from the course without leave and who subsequently wishes to resume studies in the course.

Bachelor of Music

Award Abbreviation: BMus

The Bachelor of Music is offered by the Faculty of Music. The Bachelor of Music is a three-year degree which qualifies students in music performance, composition, church music, music technology, or studio teaching. Students normally take 60 credit points of compulsory Music subjects PLUS 20 credit points of elective subjects each year. Students may specialise in performance (Instrumental/Voice), composition, church music or performance/studio teaching. Students may undertake a combination of these areas or music technology in a double major. Students enrolled in a double major or a combined degree program are not required to enrol in electives.

Students must complete the core sequential subjects as set out in the course structure or combined degree program. For information about credit points, semester of offer and prior assumed knowledge, see the list of Approved Subjects.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at www.newcastle.edu.au/services/australia/credit/index.htm
In chosen specialisation: Performance (including Performance/Studio Teaching), Composition or Church Harmony and Aural Historical study and analysis of music.

10 credit points to be chosen from the Music Elective Subject list.

Electives

20 credit points chosen by candidates from subjects offered either by the Faculty of Music or other faculties. Students may choose a double major as their elective.

Elective Subjects

Electives may be chosen from the following subjects offered by the Faculty of Music. Subjects may also be chosen from those subjects available from other faculties for which students are eligible to enrol.

Music Elective Subjects

100 Level

MUS148 Principal Study Double Major 1*
MUS149 Principal Study Double Major 2*
MUS166 Specialist Genre Studies 1
MUS167 Specialist Genre Studies 2
MUS146 Specialist Instrumental/Vocal Studies 1
MUS147 Specialist Instrumental/Vocal Studies 2

200 Level

MUS231 Audio Techniques
MUS216 Composition Techniques
MUS235 Conducting
MUS215 Film Music Soundtrack Creation
MUS232 Notation Techniques
MUS268 Opera Studies 2
MUS234 Orchestration
MUS243 Pedagogy 1
MUS244 Pedagogy 2
MUS249 Principal Study Double Major 3*
MUS248 Principal Study Double Major 4*
MUS258 Principal Study Double Performance 3*
MUS259 Principal Study Double Performance 4*
MUS206 Sound Engineering
MUS266 Specialist Genre Studies 3
MUS267 Specialist Genre Studies 4
MUS246 Specialist Instrumental/Vocal Studies 3
MUS247 Specialist Instrumental/Vocal Studies 4

300 Level

MUS348 Principal Study Double Major 5*
MUS349 Principal Study Double Major 6*
MUS358 Principal Study Double Performance 5*
MUS359 Principal Study Double Performance 6*
MUS366 Specialist Genre Studies 5
MUS367 Specialist Genre Studies 6
MUS346 Specialist Instrumental/Vocal Studies 5
MUS347 Specialist Instrumental/Vocal Studies 6

Approved Subjects

In choosing their program of study, students are advised to note the following:

Students not enrolled in the Bachelor of Music may be required to undertake an audition/test and/or seek the Dean’s approval for Performance Music subjects. For further information contact the Faculty Office.

Concurrent enrolment in sequential subjects requires the permission of the Dean. Please contact the Faculty Office for advice.

Students may not always be available in the semester indicated. Refer to the subject description for further information.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS121</td>
<td>Materials of Music 1</td>
<td>5</td>
<td>1, 2</td>
<td>MUS121</td>
</tr>
<tr>
<td>MUS122</td>
<td>Materials of Music 2</td>
<td>5</td>
<td>1, 2</td>
<td>MUS121</td>
</tr>
<tr>
<td>MUS111</td>
<td>Computing Techniques for Musicians</td>
<td>5</td>
<td>1</td>
<td>MUS121</td>
</tr>
<tr>
<td>MUS132</td>
<td>Fundamental Music Technology</td>
<td>5</td>
<td>2</td>
<td>MUS121</td>
</tr>
<tr>
<td>MUS141</td>
<td>Musicology 1</td>
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<tr>
<td>MUS142</td>
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<td>5</td>
<td>1, 2</td>
<td>MUS121</td>
</tr>
<tr>
<td>MUS146</td>
<td>Specialist Instrumental/Vocal Studies 1</td>
<td>10</td>
<td>1, 2</td>
<td>MUS121</td>
</tr>
<tr>
<td>MUS147</td>
<td>Specialist Instrumental/Vocal Studies 2</td>
<td>10</td>
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<td>MUS148</td>
<td>Principal Study Double Major 1</td>
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<td>MUS121</td>
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<tr>
<td>MUS149</td>
<td>Principal Study Double Major 2</td>
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</tr>
<tr>
<td>MUS150</td>
<td>Principal Study 1</td>
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<td>1, 2</td>
<td>MUS150</td>
</tr>
<tr>
<td>MUS151</td>
<td>Principal Study 2</td>
<td>10</td>
<td>1, 2</td>
<td>MUS150</td>
</tr>
<tr>
<td>MUS158</td>
<td>Principal Study (Performance/Studio Teaching)</td>
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<tr>
<td>MUS159</td>
<td>Principal Study (Performance/Studio Teaching) 2</td>
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<td>MUS150</td>
</tr>
<tr>
<td>MUS161</td>
<td>Principal Study Performance (Education) 1</td>
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<td>1, 2</td>
<td>MUS150</td>
</tr>
<tr>
<td>MUS162</td>
<td>Principal Study Performance (Education) 2</td>
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<td>1, 2</td>
<td>MUS150</td>
</tr>
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<td>MUS166</td>
<td>Specialist Genre Studies 1</td>
<td>10</td>
<td>1, 2</td>
<td>MUS150</td>
</tr>
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<td>Specialist Genre Studies 2</td>
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<td>1, 2</td>
<td>MUS150</td>
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<td>MUS191</td>
<td>Ensemble Studies 1</td>
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<td>MUS191</td>
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<tr>
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<td>MUS197</td>
<td>Ensemble Studies Teaching (Education) 1</td>
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<tr>
<td>MUS198</td>
<td>Ensemble Studies Teaching (Education) 2</td>
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<td>1, 2</td>
<td>MUS197</td>
</tr>
<tr>
<td>MUS205</td>
<td>Interactive Multi-media Presentations</td>
<td>10</td>
<td>2</td>
<td>Windows</td>
</tr>
<tr>
<td>MUS206</td>
<td>Sound Engineering</td>
<td>10</td>
<td>2</td>
<td>Windows</td>
</tr>
<tr>
<td>MUS207</td>
<td>Music Publishing Software</td>
<td>10</td>
<td>1</td>
<td>Windows/Test</td>
</tr>
<tr>
<td>MUS208</td>
<td>Music Sequencing Software</td>
<td>10</td>
<td>1</td>
<td>Windows/Test</td>
</tr>
<tr>
<td>MUS209</td>
<td>Principal Study (Performance/Studio Teaching)</td>
<td>10</td>
<td>1, 2</td>
<td>MUS209</td>
</tr>
<tr>
<td>MUS210</td>
<td>Principal Study (Performance/Studio Teaching) 2</td>
<td>10</td>
<td>1, 2</td>
<td>MUS209</td>
</tr>
<tr>
<td>MUS215</td>
<td>Film Music Soundtrack Creation</td>
<td>10</td>
<td>1</td>
<td>MUS209</td>
</tr>
<tr>
<td>MUS216</td>
<td>Composition Techniques</td>
<td>5</td>
<td>2</td>
<td>MUS215</td>
</tr>
<tr>
<td>MUS217</td>
<td>Materials of Music 3</td>
<td>5</td>
<td>1, 2</td>
<td>MUS215</td>
</tr>
<tr>
<td>MUS222</td>
<td>Materials of Music 4</td>
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<tr>
<td>MUS231</td>
<td>Audio Techniques</td>
<td>5</td>
<td>1</td>
<td>MUS222</td>
</tr>
<tr>
<td>MUS232</td>
<td>Notation Techniques</td>
<td>5</td>
<td>2</td>
<td>MUS222</td>
</tr>
<tr>
<td>MUS234</td>
<td>Orchestration</td>
<td>5</td>
<td>2</td>
<td>MUS222</td>
</tr>
</tbody>
</table>
Students wishing to take Double Major or Double Performance need to have an application approved (except for music technology strand). Please see the Faculty Office.

Schedule

Admission to Candidature
1. In cases where they meet the published selection criteria determined by the Faculty Board, applicants for admission to candidature shall be required to undertake a performance assessment.

2. (1) The performance assessment shall consist of:
(a) an auditions in which the candidate must demonstrate musical expertise at a level satisfactory to the Faculty Board.

(2) Applicants who do not attend the University for the performance assessment shall be deemed to have withdrawn their application unless a reason acceptable to the Faculty Board is provided.

Ranking for Selection
3. Applicants shall be ranked in descending order of merit on the basis of:
(a) academic performance based on the selection criteria determined under clause 1; and
(b) academic performance and results determined by the Faculty Board arising from the performance assessment.

Offers of Admission
4. Offers of admission are made in descending order of merit to applicants ranked under clause 3, such that the places available in the course each year are filled.

Qualification for the Degree
5. To qualify for admission to the Degree, a candidate shall pass subjects totalling not less than 240 credit points, selected from the list of approved subjects, and comprising:
(a) at least 60 credit points at 100 level;
(b) at least 60 credit points at 200 level;
(c) at least 50 credit points at 300 level; and
(d) the core sequential subjects prescribed for the course by the Faculty Board.

Leave of Absence
6. (1) Leave of absence from the course may only be taken with the permission of the Faculty Board under such conditions as the Faculty Board shall determine.

(2) A candidate in good academic standing at the end of an academic year may apply for leave of absence for the following year.

(3) Such leave shall be granted to a candidate once only and will not normally be granted for a period of more than one year.

Resumption of Studies
7. A candidate who withdraws or who is absent from the course without leave and who subsequently wishes to resume studies in the course:
(a) if the withdrawal or absence without leave occurred before accumulating 80 credit points will be required to re-apply for admission to candidature; or
(b) in any other case, may be permitted to re-enrol in the course under such conditions and at such time as the Faculty Board may determine.

Credit
9. (1) Credit may be granted for up to 160 credit points.

(2) The Faculty Board may grant credit, in specified or unspecified subjects, in recognition of substantial professional or practical experience or recognised music qualifications in accordance with the published criteria determined by the Faculty Board.

Bachelor of Music (Honours)

Award Abbreviation: BMus(Hons)

The Bachelor of Music (Honours) is offered by the Faculty of Music. It is a one year course involving completion of 80 credit points of Music subjects. Vocal students may specialise in operatic studies. Piano students may specialise in accompaniment.

Course Structure

Students may undertake one of the available programs of study in Performance/Composition, Musicology or a combination of Performance and Research.

Semester 1

<table>
<thead>
<tr>
<th>Performance/Composition</th>
<th>Musicology</th>
<th>Combined Performance and Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance 1/Composition 1</td>
<td>Research Essay</td>
<td>Performance 1/Composition 1</td>
</tr>
<tr>
<td>Professional Development Seminar</td>
<td>Research Seminar</td>
<td>Research Seminar</td>
</tr>
</tbody>
</table>

Semester 2

<table>
<thead>
<tr>
<th>Performance 2/Composition 2</th>
<th>Musicology Project</th>
<th>Performance 2/Composition 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance Project</td>
<td>Research Project</td>
<td>Research Project</td>
</tr>
</tbody>
</table>

Availability of electives will be subject to enrolments. Please check with the Faculty Office for available subjects and internal choices.
Bachelor of Music/Bachelor of Arts

Award Abbreviations: BMus, BA

The Bachelor of Music/Bachelor of Arts combined degree program is offered by the Faculty of Music and the Faculty of Arts and Social Science. This combined degree program requires the completion of a total of 340 credit points, undertaken over four years of full-time study or the part-time equivalent.

Bachelor of Arts

To meet the current requirements of the Bachelor of Arts component of the program, you must complete a minimum of 160 credit points of Bachelor of Arts Group A subjects (including a Major Sequence of study).

To complete a Major Sequence of study within the Bachelor of Arts, you must complete at least 30 credit points at 200 level and 40 credit points at 300 level, in one area of study chosen from Group A disciplines. The disciplines available are: Aboriginal Studies, Classics, Cultural Studies, Drama, Economics, English, Film Studies, Geography, Gender Studies, History, Leisure and Tourism Studies, Linguistics, Mathematics, Modern Languages, Philosophy, Politics, Psychology, Religious Studies, Sociology and Anthropology.

Bachelor of Music

To meet the requirements of the Bachelor of Music component of the program you must complete 180 credit points of required Music subjects as set out in the Bachelor of Music entry.

For the list of Approved Subjects in each degree refer to the Bachelor of Music and Bachelor of Arts courses.

Bachelor of Music/Bachelor of Commerce

Award Abbreviations: BMus, BComm

For continuing students only.

The Bachelor of Music/Bachelor of Commerce combined degree program is offered by the Faculty of Music and the Faculty of Economics and Commerce. The combined degree program involves completion of 150 credit points of Commerce subjects and 180 credit points of Music subjects.

TAFE Credits

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oustr/aau/tafecred/index.htm

Program Structure

To meet the requirements of the Bachelor of Commerce you must complete particular compulsory pre-requisite subjects at the 100 level (listed in the table below), and a Major Sequence of study in either Financial Accounting, Management Accounting or Finance. A Major Sequence of study consists of at least 30 credit points at 200 level and 40 credit points at 300 level. For details of Approved Subjects refer to the course entry for the Bachelor of Commerce.

To meet the requirements of the Bachelor of Music component of the program you must complete all required Music subjects as set out in the course structure in the Bachelor of Music entry.

The following table outlines the suggested pattern for this combined degree program.

Bachelor of Music/Bachelor of Commerce

Award Abbreviations: BMus, BComm For continuing students only.
Bachelor of Nursing - Pre Registration

Award Abbreviation: BNSw

The Bachelor of Nursing is offered by the Faculty of Nursing. The Bachelor of Nursing degree prepares graduates for comprehensive professional nursing practice in a variety of health care settings. Nursing studies are central to the course, and learning in the biological and behavioural sciences supports these: the course utilizes flexible delivery modes in the later years. Graduates of the program are eligible to apply for registration with the NSW Nurses' Registration Board.

Students gain experience in a variety of clinical settings which relate to the theoretical base of their practice. Clinical experience is undertaken within Hunter Health and Central Coast Health and adjacent health regions. Opportunities exist to undertake this practice in nursing homes, in the community, country hospitals, public hospitals, private hospitals and major teaching hospital settings. The teaching/learning strategies employed in the course are those that are considered to be most likely to facilitate students' acquisition of practice-related skills, in addition to a comprehensive theoretical body of knowledge. There is emphasis in the course on:

- development of self-directed learning skills;
- learning through group discussion and by observation of role models presented by the faculty, clinical educators and nurses in the practice setting;
- development of communication skills through written assignments and other activities.

A wide variety of teaching modes, in addition to the above, are used, including: lectures, tutorials, experiential workshops, seminars, computer simulation, demonstrations, problem-based learning activities, laboratory work, role play/simulations, individual and group projects and case studies.

Students are required to have completed the St John's Ambulance or Red Cross First Aid Certificate or equivalent before the end of the first semester of the first year of the course.

All students who undertake clinical experience are required to be aware of their immunisation status with respect to common infectious diseases, and are advised to be vaccinated against Tuberculosis (IF Mantoux negative) and Hepatitis B prior to the commencement of the program.

The NSW Department of Health has initiated a policy requiring a criminal record check prior to employment or placement in any capacity in the NSW Health System. This check will be conducted by the NSW Police Service and will be coordinated by the Department of Health.

Course Location

The course may be undertaken at either the Callaghan Campus or the Central Coast Area Health site at the Gosford District Hospital. Entry to the course at the Gosford District Hospital is via direct application to the University in June, for commencement in Semester 3. Subjects are available in alternate semesters at the Callaghan Campus and Central Coast Health Site at the Gosford District Hospital.

TAFE-University Credit Transfer Scheme

The University of Newcastle is a participant in the national TAFE-University Credit Transfer Scheme. For Nursing, Students holding a TAFE Diploma in Nursing, a TAFE Diploma in a nursing related field or a TAFE Certificate IV in Nursing will be granted specified credit on application. Enrolled Nurses holding the Advanced Certificate in Enrolled Nursing; who have completed the TAFE/Newcastle faculty of Nursing Enrolled Nurse Bridging Course will be eligible for further exemption from first year subjects.

Post Registration

As well as the three year pre-registration course, the Faculty offers registered nurses a one year full time course leading to List A Registration with the NSW Nurses Registration Board. This program is available to Registered Nurses who have List B Registration with the NSW Nurses Registration Board, and to overseas nurses registered with a recognised overseas nursing registration authority.

Course Structure

Students must complete all of the following subjects. The recommended order for completion of these subjects appears below. Details regarding flexible delivery arrangements will be provided on enrolment.

Recommended Pattern of Progression for Full-Time Students

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 Level - First Semester of Study</td>
<td></td>
</tr>
<tr>
<td>NURS103</td>
<td>Foundation Studies in Nursing 1A</td>
</tr>
<tr>
<td>NURS104</td>
<td>Nursing Practice 1A</td>
</tr>
<tr>
<td>NURS105</td>
<td>Human Biosciences 1 (Nursing)</td>
</tr>
<tr>
<td>NURS106</td>
<td>General Psychology (Callaghan)</td>
</tr>
<tr>
<td>NURS107</td>
<td>Health Sociology (Gosford)</td>
</tr>
<tr>
<td>100 Level - Second Semester of Study</td>
<td></td>
</tr>
<tr>
<td>NURS108</td>
<td>Foundation Studies in Nursing 1B</td>
</tr>
<tr>
<td>NURS110</td>
<td>Nursing Practice 1B</td>
</tr>
<tr>
<td>NURS111</td>
<td>Clinical Practice 1B</td>
</tr>
<tr>
<td>NURS112</td>
<td>Health Sociology (Callaghan)</td>
</tr>
<tr>
<td>NURS113</td>
<td>General Psychology (Gosford)</td>
</tr>
<tr>
<td>200 Level - Semester 1</td>
<td></td>
</tr>
<tr>
<td>NURS201</td>
<td>Foundation Studies in Nursing 2A</td>
</tr>
<tr>
<td>NURS202</td>
<td>Nursing Practice 2A</td>
</tr>
<tr>
<td>NURS203</td>
<td>Human Biosciences 2A (Nursing)</td>
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<tr>
<td>300 Level - Semester 1</td>
<td></td>
</tr>
<tr>
<td>NURS301</td>
<td>Foundation Studies in Nursing 3A</td>
</tr>
<tr>
<td>NURS302</td>
<td>Nursing Practice 3A</td>
</tr>
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<td>NURS303</td>
<td>Clinical Practice 3A</td>
</tr>
<tr>
<td>NURS304</td>
<td>Human Biosciences 3A (Nursing)</td>
</tr>
<tr>
<td>300 Level (Year 3) - Semester 2</td>
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</tr>
<tr>
<td>NURS305</td>
<td>Foundation Studies in Nursing 3B</td>
</tr>
<tr>
<td>NURS306</td>
<td>Nursing Practice 3B</td>
</tr>
<tr>
<td>NURS307</td>
<td>Human Biosciences 3B (Nursing)</td>
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</table>

Recommended Pattern of Progression for Part-Time Students

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Level - Stage 1</td>
<td></td>
</tr>
<tr>
<td>NURS101</td>
<td>Foundation Studies in Nursing 1A</td>
</tr>
<tr>
<td>PSY103</td>
<td>General Psychology (Callaghan)</td>
</tr>
<tr>
<td>NURS102</td>
<td>Health Sociology (Gosford)</td>
</tr>
<tr>
<td>100 Level - Stage 2</td>
<td></td>
</tr>
<tr>
<td>NURS103</td>
<td>Foundation Studies in Nursing 1B</td>
</tr>
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Compulsory Commerce Subjects

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<th>Subject Code</th>
<th>Subject Name</th>
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<tbody>
<tr>
<td>ACET110</td>
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</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>IBUS110</td>
<td>Introduction to Management and Organisational Behaviour</td>
</tr>
<tr>
<td>INFO101</td>
<td>Introduction to Information Systems.</td>
</tr>
<tr>
<td>STAT105</td>
<td>Statistics for Business</td>
</tr>
<tr>
<td>or ECON112</td>
<td>Basic Economics &amp; Quantitative Analysis 1</td>
</tr>
</tbody>
</table>

No more than 100 credit points may be taken at the 100 level.

Students in this combined degree program are advised to consult with the two Faculty Offices regarding their academic program.
Requirements for Progression

1. No student may undertake a Clinical Practicum subject unless they can demonstrate safe practice at the preceding level and have
    no unresolved, unsatisfactory clinical reports at the previous level.

2. Any student who is enrolled in a Clinical Practicum subject at one level in the same semester as being enrolled in other
    subjects at a different level must complete the block clinical practicum outside the normal academic
    commitments to subjects at that level will not be accepted as a valid reason for absences from any
    classes. Students must plan their enrolment to avoid.

3. Faculty progression requirements are under review, details of any changes will be displayed
    on the Faculty Notice Board.

Principles of Progression

1. Students who do not follow a standard pattern of enrollment as outlined above should seek academic advice regarding their
    program of study. This includes any student who seeks enrollment in more than 40 credit points.

2. Students should enroll in Nursing Practice and Clinical Practicum subjects at the same level within the same semester.

3. Level 200 2nd semester subjects should not be undertaken until a Pass grade or higher has been achieved in all Level 200
    semester subjects.

4. Level 300, 1st semester subjects should not be undertaken until a Pass grade or higher has been achieved for all Level 200
    semester subjects.

5. The subject NURS212 Clinical Practicum should be completed in the final semester of study, as this includes a transition to
    work component.

6. A student who needs to repeat a subject should undertake that subject the semester in which it is next offered.
Award

Bachelor of Nursing - Post Registration

Award Abbreviation: BNurs

The Bachelor of Nursing - Post Registration course is offered by the Faculty of Nursing. It is a professional development degree for nurses with a hospital-based certificate or approved undergraduate diploma, who wish to achieve graduate status. The following post-registration programs are available:

- Certificate to Degree program for nurses holding List A registration with the NSW Nurses Registration Board, or registration with an approved overseas nursing registration authority.
- Certificate to Degree special program for Registered Nurses holding List A registration with the NSW Nurses Registration Board, who have been out of the workforce for some time and who are seeking to re-enter the workforce.
- Certificate to Degree program for Registered Nurses who hold List B registration with the NSW Nurses Registration Board, and are seeking List A registration.
- Diploma to Degree program for Registered Nurses with a Diploma in Health Science (Nursing) or equivalent.
- Certificate to Degree program for Nurses who are registered with an approved overseas nursing registration authority, and are seeking NSW registration.

Course Structure

Students undertaking one of the post-registration programs (with the exception of overseas registered nurses seeking NSW registration), complete all or some of the six core subjects, and one or both of the elective subjects in the post-registration program.

Certificate to Degree Program for List A Registered Nurses

Students holding List A registration, and who are registered with an approved overseas nursing registration authority, receive 160 credit points advanced standing and complete 80 credit points by undertaking the following program. Graduates of this program are not eligible to apply for registration with the NSW Nurses Registration Board.

- NURS351 Enquiry and Learning Skills
- NURS352 Conceptualising Nursing Practice
- NURS353 Legal and Ethical Issues in Nursing Practice
- NURS354 Clinical Studies
- NURS355 Community Health Nursing
- NURS356 Nurse as an Educator/Manager

Plus

Two Professional Electives

For information about credit points, semesters of offer and assumed knowledge see the list of Approved Subjects below.

Certificate to Degree Special Program for List B Registered Nurses

Students with List B registration who are seeking to re-enter the workforce after some time away receive 160 credit points advanced standing and complete 80 credit points comprising a combination of subjects from the pre and post registration programs. Students in this category have two options:

1. Complete all 6 core subjects from the post-registration program, and replace one or both electives with a Clinical Practicum subject(s) from the third year of the pre-registration program.
2. Complete all core subjects except NURS334 Clinical Studies; replace NURS334 with a Clinical Practicum subject from the third year of the pre-registration program; apply 2 electives from the post-registration program, or if more clinical is required, complete 1 elective and replace the other with another Clinical Practicum subject from the third year of the pre-registration program.

Diploma to Degree Program

Students holding the Diploma in Health Science (Nursing) or equivalent receive 200 credit points advanced standing and complete 40 credit points by selecting three of the following core subjects and one elective.

- NURS352 Conceptualising Nursing Practice
- NURS353 Legal and Ethical Issues in Nursing Practice
- NURS354 Clinical Studies
- NURS355 Community Health Nursing
- NURS356 Nurse as an Educator/Manager

Plus

One Professional Elective

In 2001 a selection of the following electives will be available to students, subject to student numbers:

- NURS357 Nursing Research
- NURS358 Theories and Concepts of Mental Health Nursing
- NURS359 Introduction to Psychiatric Nursing
- NURS360 Pathophysiological Concepts of Nursing Practice
- NURS361 Nursing, Technology and Change

For information about credit points, semesters of offer and assumed knowledge see the list of Approved Subjects below.

Certificate to Degree Program for Overseas Registered Nurses seeking NSW Registration

Students registered with an approved overseas nursing registration authority receive 160 credit points advanced standing and complete 80 credit points. To be eligible to apply for registration with the NSW Nurses Registration Board they undertake the following program on a one year full-time basis.

- NURS301 Foundation Studies in Nursing 3A
- NURS302 Foundation Studies in Nursing 3B

Schedule

Qualification for the Degree

1. To qualify for admission to the Degree a candidate shall complete a program of subjects approved by the Faculty Board totaling not less than 360 credit points.

Leaves of Absence

3. (1) Leave of absence from the course may be taken only with the permission of the Faculty Board under such conditions as the Board shall determine.

(2) A candidate in good academic standing at the end of an academic year may apply for leave of absence for the following reasons:

(3) Such leave shall be granted to a candidate once only and will not normally be granted for a period of more than one year.
Students enrolled in the program will undertake a minimum of eight weeks of clinical experience.

For information about credit points, semesters of offer and assumed knowledge see the list of Approved Subjects for the Bachelor of Nursing pre-registration course.

### Approved Subjects

#### Core Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS351</td>
<td>Enquiry &amp; Learning Skills *</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>NURS352</td>
<td>Conceptualising Nursing Practice</td>
<td>10</td>
<td>1</td>
<td>NURS351</td>
</tr>
<tr>
<td>NURS353</td>
<td>Legal and Ethical Issues in Nursing Practice</td>
<td>10</td>
<td>2</td>
<td>NURS351</td>
</tr>
<tr>
<td>NURS354</td>
<td>Clinical Studies</td>
<td>10</td>
<td>2</td>
<td>NURS351</td>
</tr>
<tr>
<td>NURS355</td>
<td>Community Health Nursing</td>
<td>10</td>
<td>1</td>
<td>NURS351</td>
</tr>
<tr>
<td>NURS356</td>
<td>The Nurse as an Educator/Manager</td>
<td>10</td>
<td>2</td>
<td>NURS351</td>
</tr>
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</table>

#### Elective Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS357</td>
<td>Nursing Research</td>
<td>10</td>
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<tr>
<td>NURS358</td>
<td>Theories and Concepts of Mental Health Nursing</td>
<td>10</td>
<td>1</td>
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<tr>
<td>NURS359</td>
<td>Introduction to Psychiatric Nursing</td>
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<tr>
<td>NURS361</td>
<td>Nursing, Technology and Change</td>
<td>10</td>
<td>1</td>
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</tr>
</tbody>
</table>

*NURS351 is compulsory, except for registered nurses holding the Diploma in Health Science (Nursing) or equivalent.

**Minimum Enrolment Requirements**

The offering of individual subjects in any semester or year is dependent on adequate enrolments in that subject.

### Schedule

**Qualification for the Degree**

1. To qualify for admission to the Degree a candidate shall complete a program of subjects approved by the Faculty Board totalling not less than 240 credit points.

**Credit**

2. Candidates who have satisfied the requirements for registration with any Nurses Registration Board in any State in Australia will be granted such credit as the Faculty Board shall determine up to a maximum of 200 credit points.

**Leave of Absence**

3. (1) Leave of absence from the course may be taken only with the permission of the Faculty Board under such conditions as the Faculty Board shall determine.

4. (2) A candidate in good academic standing at the end of an academic year may apply for leave of absence for the following reasons:

5. (3) Such leave shall be granted to a candidate once only and will not normally be granted for a period of more than one year.

### Bachelor of Occupational Health and Safety

#### Award Abbreviation: BOHS

The Bachelor of Occupational Health and Safety is offered by the Faculty of Medicine and Health Sciences. This program of study is offered as a three year full-time or six year part-time course. It is designed to enable graduates to assume a leading role in the management and practice of occupational health and safety.

Fundamental guiding principles for the course are:

- the promotion and maintenance of the highest degree of physical, mental and social well-being of workers in all occupations;
- the prevention of ill health in people caused by working conditions;
- the protection of workers in their employment from risks resulting from factors adverse to health;
- the placing and maintenance of the worker in an occupational environment adapted to the workers' physical and psychological needs and capabilities.

There are four strands of study in the course: Occupational Health and Hygiene; Safety Science and Technology; Human Factors in Occupational Health and Safety; and Occupational Health and Safety Practice.

Some subjects incorporate alternative learning modes in addition to face-to-face teaching. Experiential and problem-based learning techniques are used, and workplace visits and work experience are important components of the course. Some lectures are held during the evening to accommodate the needs of part-time students.
Course Structure
Qualification for the award of Bachelor of Occupational Health and Safety requires the completion of 240 credit points.

The full-time course structure is illustrated below. Part-time students usually study four subjects per year at the appropriate level. Most subjects are delivered over one semester and represent approximately 56 hours of face-to-face teaching, that is, normally two hours per week. A work experience subject is also offered which is equivalent to 40 hours contact.

### Course Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester*</th>
<th>Assumed Knowledge</th>
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</thead>
<tbody>
<tr>
<td>HUS108</td>
<td>Occupational Health I</td>
<td>10</td>
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<td></td>
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<tr>
<td>OHS121</td>
<td>Safety Science I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>OHS131</td>
<td>Occupational Health and Safety Management I (Introduction to Management &amp; Organisational Behaviour)</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>OHS141</td>
<td>Occupational Health and Safety Practice I (OHS Practice &amp; Informatics)</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>OHS152</td>
<td>Occupational Health II</td>
<td>10</td>
<td>2</td>
<td>HUS108</td>
</tr>
<tr>
<td>OHS153</td>
<td>Safety Science II</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>OHS154</td>
<td>Occupational Health and Safety Law</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>OHS143</td>
<td>Occupational Health and Safety Practice II (Experiment Learning)</td>
<td>10</td>
<td>2</td>
<td></td>
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</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester*</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHS261</td>
<td>Occupational Hygiene and Toxicology I</td>
<td>10</td>
<td>2</td>
<td>HUS108</td>
</tr>
<tr>
<td>OHS262</td>
<td>Safety Technology I</td>
<td>10</td>
<td>2</td>
<td>OHS121 and OHS122</td>
</tr>
<tr>
<td>OHS263</td>
<td>Occupational Health and Safety Management II (Introduction to Industrial Relations)</td>
<td>10</td>
<td>1</td>
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<tr>
<td>OHS264</td>
<td>Occupational Health and Safety Practice III (Risk Management)</td>
<td>10</td>
<td>1</td>
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</tr>
<tr>
<td>OHS272</td>
<td>Occupational Health III</td>
<td>10</td>
<td>1</td>
<td>OHS121</td>
</tr>
<tr>
<td>OHS273</td>
<td>Safety Technology II</td>
<td>10</td>
<td>2</td>
<td>OHS121 and OHS122</td>
</tr>
<tr>
<td>OHS282</td>
<td>Ergonomics for OHS</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>OHS284</td>
<td>Occupational Health and Safety Practice IV (Work Experience)</td>
<td>10</td>
<td>2 or Full Year</td>
<td>OHS143</td>
</tr>
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</table>

**Year 3**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester*</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHS311</td>
<td>Occupational Hygiene and Toxicology II</td>
<td>10</td>
<td>1</td>
<td>OHS261</td>
</tr>
<tr>
<td>OHS321</td>
<td>Safety Technology III</td>
<td>10</td>
<td>2</td>
<td>OHS121 and OHS122</td>
</tr>
<tr>
<td>OHS331</td>
<td>Occupational Health and Safety Management III (Human Resource Management)</td>
<td>10</td>
<td>2</td>
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<tr>
<td>OHS341</td>
<td>Occupational Health and Safety Practice V (International Perspectives)</td>
<td>10</td>
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<tr>
<td>OHS352</td>
<td>Research Methods for Occupational Health and Safety</td>
<td>10</td>
<td>1</td>
<td>OHS212</td>
</tr>
</tbody>
</table>

**Electives**

30

*Semester of offer may vary

### Approved Electives

Students can select 30 credit points of electives from a wide range of subjects offered by the University, with the approval of the Faculty of Medicine and Health Sciences and the Faculty offering the subject. Some subjects have already been approved by both Faculties as Approved Electives. These are annually revised and amended. For information about semester of offer and assumed knowledge, check with the Department offering the subject.

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**Schedule**

**Enrollment**
1. In any year a candidate will enrol in not more than 40 credit points unless granted the permission of the Faculty Board to enrol in more.

**Qualification for the Degree**
2. To qualify for admission to the degree a candidate shall pass the program of study approved by the Faculty Board totalling 240 credit points.

### Bachelor of Science (Architecture)

**Award Abbreviation:** BSc(Arch) (See also Bachelor of Architecture)

The Bachelor of Science (Architecture) is offered by the Department of Architecture in the Faculty of Architecture, Building and Design. The course of study in architecture consists of a full-time five-year two-degree program. The first degree, Bachelor of Science (Architecture) consists of four years full-time study. After completing the Bachelor of Science (Architecture) and before applying for entry to the Bachelor of Architecture it is expected that students will take a break of at least one year in order to travel and/or gain experience in an architect's practice.

The Department of Architecture has adopted an integrated problem-based learning framework in which all aspects of the course are treated within the single subject 'Architecture'. This integrated format applies at all levels of the course, so that each semester students enrol in one of the single subjects: Architecture I, Architecture I Part 2, etc. Each of these subjects has two primary components: Design Integration - design problems or phases which generate the framework for learning, and seven Study Areas: Professional Skills, User Studies, Site Studies, Cultural Studies, Design Studies, Technical Studies and Implementation Studies.

Students work in groups of about twelve under the guidance of a tutor/facilitator, mainly in a studio environment (Building ADS on campus), where they have their own personal workspace. They are expected to attain a required level of competence in each Design Phase and in each Study Area. However, the Study Areas do not exist as independent subjects. The essence of the integrated approach is that the knowledge and skills acquired in each Design Phase and in each Study Area must be capable of being applied in the context of other parallel areas of skill and knowledge. Although the development of knowledge and expertise in the individual disciplines which contribute to the practice of architecture is important, it is equally important that the interaction between areas of knowledge is appreciated and that the integrative nature of the design process is understood. The learning program is thus intended to reflect the ways in which an architect responds to design challenges in practice.
Year 1
ARCH111 Architecture 1 (Part 1) 40 1 Nil
ARCH112 Architecture 1 (Part 2) 40 2 ARCH111
Year 2
ARCH211 Architecture 2 (Part 1) 40 1 ARCH112 or equivalent
ARCH212 Architecture 2 (Part 2) 40 2 ARCH211
Year 3
ARCH311 Architecture 3 (Part 1) 40 1 ARCH212 or equivalent
ARCH312 Architecture 3 (Part 2) 40 2 ARCH311

Schedule
Enrolment
1. Except with the approval of the Faculty Board granted only in exceptional circumstances, a candidate may not enrol in subjects totalling less than 80 credit points.

Qualification for the Degree
2. To qualify for admission to the degree a candidate shall pass the program of study approved by the Faculty Board totalling 240 credit points.

Grading
3. The degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be sufficient, the degree may be conferred with Merit.

Credit
4. The credit granted to candidates shall not exceed 160 credit points.

Bachelor of Science (Aviation)
Award Abbreviation: BSc(Av)

The Bachelor of Science (Aviation) is offered by the faculty of Science and Mathematics. The degree is designed for those seeking a graduate career in the Aviation Industry. When taken with flight training, students can also qualify as grade pilots. Those who do not undertake flight training concentrate their studies on the administrative and operational aspects of the industry.

The course content reflects the understanding that a career in Aviation is fundamentally about aircraft, aircraft operators and flight operations; how aircraft work and why they fly are as important as navigation and flight planning. The environment, weather conditions, is of particular importance. Aviation is also about people; how they learn and how they function especially in critical human performance issues are also essential.

Career opportunities include working as graduate pilots in charter, local, regional, national and international airlines, or in management and administration in aviation operations. Graduates have also obtained employment as flying school instructors, air traffic controllers, military aviators and as academics.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ourau/tafecreditedindex.htm.

The course is structured to prepare students for an active role in the Aviation Industry whether it be in flying, administration, operations, management, regulations, instruction or research. Two programs are currently available: the Professional Pilot option and the Aviation Major option. All students are expected to complete the Civil Aviation Safety Authority (CASA) Commercial theory examinations in the first year which is embedded within AVJA124 (Aviation 1).

Students enrolled in the Professional Pilot option must undertake concurrent flight training with one of the University approved Flying Training Centres to achieve their Commercial Pilot Licence (CPL) by the end of their second year of study. Students who fail to maintain satisfactory progress within the integrated flight training program will revert to the Aviation Major option.

Students enrolled in the Aviation Major option may enrol in any of the aviation subjects except for AVJA129 (Principles of Flying Practice 1) and AVJA234 (Principles of Flying Practice 2). These subjects are an integral part of the Professional Pilot flying training program.

For more information about credit points, semester of offer and assumed knowledge, see the list of Approved Subjects at the end of this section. For further information on the Aviation program see the Discipline's website, at www.newcastle.edu.au/aviation.

Professional Pilot Program

Year 1 (80 credit points)
AVJA124 & Aviation 1 - Part A and Part B
AVJA128 & Air Transport Systems, Primer
AVJA129A & Principles of Flying Practice 1 - Part A and Part B
AVJA129B & Principles of Flying Practice 1 - Part A and Part B
AVJA130 & Foundations of Law
AVJA131 & Computing for Science

Year 2 (80 credit points)
AVJA132 & Group Interaction & Multi-Crew Performance
AVJA133A & Principles of Flying Practice 2 - Part A and Part B
AVJA133B & Principles of Flying Practice 2 - Part A and Part B
AVJA134 & Air Transport Systems - Part A and Part B
AVJA135 & Air Transport Systems - Part A and Part B
AVJA136 & Computer Category Aircraft Operations
AVJA137 & Air Transport Meteorology
AVJA138 & Air Transport Navigation
AVJA139 & Air Transport Aircraft Performance

Year 3 (80 credit points)

Credit points selected from:
AVJA134A & Directed Study - Part A and Part B
AVJA134B & Aviation Training - Part A and Part B
AVJA135 & International Aeronautical Meteorology
AVJA136 & International Aeronautical Meteorology
AVJA137 & Air Traffic Control Dynamics
AVJA138 & Air Traffic Control Dynamics
AVJA139 & Air Traffic Management
AVJA144 & Human Factors & Aviation Psychology

Aviation Major Program

Year 1 (80 credit points)
AVJA124 & Aviation 1 - Part A and Part B
AVJA128 & Air Transport Systems, Primer
AVJA129 & Principles of Flying Practice 1
AVJA234 & Principles of Flying Practice 2
AVJA238 & Air Transport Systems - Part A and Part B
AVJA239 & Air Transport Aircraft Performance
AVJA244 & Air Transport Navigation
AVJA245 & Air Traffic Control Dynamics
AVJA246 & Air Traffic Management
AVJA247 & Human Factors & Aviation Psychology

The degree is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totalling 240 credit points. Most subjects have a value of 10 credit points.
**LAW101** Foundations of Law

**SCIM101** Computing for Science

**Electives**

20 credit points selected from:

- Group A and Group B subjects approved for the Bachelor of Science. The following subjects are recommended:
  - PSYC101 Psychology Introduction 1
  - PSYC102 Psychology Introduction 2
  - IRH111 Introduction to Management & Organisational Behaviour

### Year 2 (80 credit points)

At least 40 credit points selected from:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA225</td>
<td>Group Interaction &amp; Multi-Crew Performance</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>AVIA235A &amp; B</td>
<td>Air Transport Systems - Part A and Part B</td>
<td>20</td>
<td>1</td>
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<tr>
<td>AVIA236</td>
<td>Co-pilot Category Aircraft Operations</td>
<td>10</td>
<td>1</td>
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<tr>
<td>AVIA237</td>
<td>Air Transport Meteorology</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>AVIA238</td>
<td>Air Transport Navigation</td>
<td>10</td>
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<td></td>
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<tr>
<td>AVIA239</td>
<td>Aircraft Transport Performance</td>
<td>10</td>
<td>1</td>
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</tr>
<tr>
<td>LAW204</td>
<td>Law of Business Organisations</td>
<td>10</td>
<td>1</td>
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<tr>
<td>LAW207</td>
<td>Competition Law and Policy</td>
<td>10</td>
<td>1</td>
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</tr>
<tr>
<td>LAW225</td>
<td>The Law of Employment</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>LAW330</td>
<td>Contract Law 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>200 level</td>
<td>Psychology subjects</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 level</td>
<td>Management subjects</td>
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</table>

**Year 3 (90 credit points)**

At least 40 credit points selected from:

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<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
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<tbody>
<tr>
<td>AVIA314A &amp; B</td>
<td>Directed Study - Part A and Part B</td>
<td>20</td>
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<td>AVIA326</td>
<td>International Aeronautical Meteorology</td>
<td>10</td>
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<tr>
<td>AVIA328</td>
<td>Aircraft Structural &amp; Fatigue Management</td>
<td>10</td>
<td>1</td>
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</tr>
<tr>
<td>AVIA329</td>
<td>Flight Control Dynamics</td>
<td>10</td>
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<td></td>
</tr>
<tr>
<td>AVIA330</td>
<td>Air Transport Flight Planning</td>
<td>10</td>
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</tr>
<tr>
<td>AVIA331</td>
<td>Air Transport Training &amp; Instruction</td>
<td>10</td>
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<td>AVIA332</td>
<td>Air Transport Operations</td>
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<tr>
<td>AVIA333</td>
<td>Satellite Systems &amp; Air Traffic Management</td>
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<tr>
<td>AVIA334</td>
<td>Human Factors &amp; Aviation Psychology</td>
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<td>AVIA335</td>
<td>Aircraft Evaluation &amp; Design</td>
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</tr>
<tr>
<td>AVIA336</td>
<td>Aircraft Structural &amp; Fatigue Management</td>
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<td>AVIA337</td>
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<tr>
<td>AVIA338</td>
<td>Aircraft Transport Performance</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>AVIA339</td>
<td>Air Transport Flight Planning</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>AVIA341</td>
<td>Aviation Training &amp; Instruction</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>AVIA342</td>
<td>Air Transport Operations</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>AVIA343</td>
<td>Satellite Systems &amp; Air Traffic Management</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>AVIA344</td>
<td>Human Factors &amp; Aviation Psychology</td>
<td>10</td>
<td>1</td>
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<tr>
<td>IRH207</td>
<td>300 level subjects</td>
<td>1, 2</td>
<td></td>
<td>See subjects with IRH prefix</td>
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<tr>
<td>PSYC101</td>
<td>Advanced Foundations for Psychology</td>
<td>10</td>
<td>1</td>
<td>PSYC201</td>
</tr>
<tr>
<td>PSYC207</td>
<td>300 level subjects</td>
<td>1, 2</td>
<td></td>
<td>See subjects with PSYC prefix</td>
</tr>
</tbody>
</table>

**Approved Subjects**

* An asterisk indicates a subject that requires enrolling students to already have a pass in the CASA Commercial Pilot Licence (CPL) theory examination (completed within AVIA124) as a legislated requirement to sit an embedded Civil Aviation Safety Authority (CASA) Air Transport Pilot Licence (ATPL) theory examination, or to enrol with approval of Head of School.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>SCIM101</td>
<td>Computing for Science</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>AVIA124A</td>
<td>Aviation I - Part A</td>
<td>20</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>AVIA124B</td>
<td>Aviation I - Part B</td>
<td>20</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>AVIA125A</td>
<td>Principles of Flying Practice I - Part A</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>AVIA125B</td>
<td>Principles of Flying Practice I - Part B</td>
<td>5</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Schedule**

**Qualification for the Degree**

To qualify for admission to the degree, a candidate shall complete a program approved by the Faculty Board totalling not less than 240 credit points from the List of Approved Subjects and completing:

(a) a Major Sequence of Subjects approved for the course by the Faculty Board;
(b) at least 60 credit points from 100 level subjects; and
(c) at least 60 credit points from 300 level subjects.
Bachelor of Science (Aviation) (Honours)

Award Abbreviation: BSc(Av)Hon

The Bachelor of Science (Aviation) (Honours) is offered by the Faculty of Science and Mathematics.

Admission Requirements
To be eligible for admission to the Honours program, students must have:

- a completed Bachelor of Science (Aviation) degree (or equivalent);
- a minimum of 40 credit points of Aviation subjects at 200 level;
- a minimum of 60 credit points of Aviation subjects at 300 level;
- a Credit grade average in at least 40 credit points of Aviation subjects at 300 level, including AVIA314 or PSYC312; and
- permission of the Head of School.

Course Structure
The Honours program is normally undertaken over one year of full-time study or two years part-time. It requires students to complete the subjects listed in the Approved Subjects, totalling 80 credit points.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA411</td>
<td>Aviation Honours 411</td>
<td>20</td>
<td>1, 2</td>
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<td>AVIA412</td>
<td>Aviation Honours 412</td>
<td>20</td>
<td>1, 2</td>
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<tr>
<td>AVIA421</td>
<td>Aviation Honours 421</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>AVIA422</td>
<td>Aviation Honours 422</td>
<td>20</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Schedule

Admission to Candidature
1. In order to be admitted to candidacy for the Degree an applicant shall:
   (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Science (Aviation) of the University of Technology, Sydney or any other degree approved by the Faculty Board, or have already been admitted to that degree; and
   (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department of Aviation and Technology.

Qualification for Admission to the Degree
2. To qualify for admission to the Degree a candidate shall pass subjects at the 400 level totalling 80 credit points chosen from the list of Approved Subjects.

Classes of Honours
3. There shall be three classes of honours: Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

Time Requirements
4. Except with the permission of the Faculty Board, a candidate shall complete the course in not more than two years of study.

Credit
2. A candidate may be granted credit:
   (a) for up to 160 credit points in recognition of the award of the Diploma in Aviation Science completed in the University of Technology, Sydney or equivalent, qualification completed at another higher education institution, as determined by Faculty Board;
   (b) for up to 120 credit points in recognition of subjects completed and previously counted towards an award other than that specified in rule 2(a);
   (c) for up to 160 credit points in recognition of subjects completed which have not previously counted towards an award at another higher education institution; or
   (d) for all subjects completed in the University which have not already been counted towards an award.

Bachelor of Science (Biotechnology)

Award Abbreviation: BSc(Biotech)

The Bachelor of Science (Biotechnology) is offered by the Faculty of Science and Mathematics. The degree provides an excellent basic knowledge in modern biotechnology, including molecular biology, molecular genetics and microbiology, as well as a range of experiences in research methods, data analysis, instrumentation, information technology, bioethics and law.

It is expected that graduates will find employment in biotechnology industries, biomedical research, pathology laboratories, biotechnological laboratories in government and industry, reproductive biology industries, and a range of agricultural support industries.

Graduates may apply for membership of the Australian Biotechnology Association, the Australian Institute of Biology, and specialist societies such as the Australian Society of Biochemistry and Molecular Biology.

Course Structure
The degree is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totaling 240 credit points. Most subjects have a value of 10 credit points.

For information about credit points, semesters of offer and assumed knowledge requirements, see the list of Approved Subjects.

Commencing Students:
Year 1 (80 credit points)
- Biology (two subjects)
- Chemistry (two subjects)
- Biological Data Evaluation
- Introductory Physics for Life Sciences
- Mathematics
- Biomolecular Analysis

Year 2 (80 credit points)
- Biochemistry (two subjects)
- Molecular Genetics
- Biotechnology
- Microbiology
- Genetic Analysis
- Immunochemistry
- Immunology

Animal Physiology and Development or Plant Cell Development

Year 3 (80 credit points)
- Reproductive Physiology and Development
- Microbiology
- Plant Cell and Molecular Biology
- Laboratory Professional Skills
- Cellular Biotechnology
- Biotechnology Finance and Commercialisation
- Biotechnology Placement

Continuing Students:
Year 1 (80 credit points)
- Biology (two subjects)
- Chemistry (two subjects)
- Biological Data Evaluation
- Introductory Physics for Life Sciences
- Mathematics
- Biomolecular Analysis

Year 2 (80 credit points)
- Biochemistry (two subjects)
- Molecular Genetics
- Biotechnology
### Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCHM103</td>
<td>Biodiversity Analysis</td>
<td>10</td>
<td>2</td>
<td>CHEM101</td>
</tr>
<tr>
<td>BIEL101</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BIEL102</td>
<td>Introductory Biology: Cells to Organisms</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BIEL103</td>
<td>Introduction to Molecular Genetics</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM101</td>
<td>Introductory Chemistry I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM102</td>
<td>Introductory Chemistry II</td>
<td>10</td>
<td>2</td>
<td></td>
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<tr>
<td>MATH111</td>
<td>Mathematics 111</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PHYS110</td>
<td>Introductory Physics for Life Sciences</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BIEL104</td>
<td>Biocomputational Analysis</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BIO101</td>
<td>Cell Biology</td>
<td>10</td>
<td>2</td>
<td></td>
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<tr>
<td>BIO201</td>
<td>Molecular Genetics</td>
<td>10</td>
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<tr>
<td>BIO202</td>
<td>Biochemistry</td>
<td>10</td>
<td>2</td>
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<tr>
<td>BIO203</td>
<td>Plant Cell Development</td>
<td>10</td>
<td>1</td>
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<tr>
<td>BIOL201</td>
<td>Biotechnology</td>
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<td>BIOL202</td>
<td>Plant Cell Biology</td>
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<td>BIOL203</td>
<td>Molecular Genetics</td>
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<tr>
<td>BIOL204</td>
<td>Biophysics</td>
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<td>BIOL205</td>
<td>Plant Cell Development</td>
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<td>BIOL206</td>
<td>Biotechnology</td>
<td>10</td>
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<tr>
<td>BIOL207</td>
<td>Laboratory Professional Skills</td>
<td>10</td>
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<tr>
<td>BIOL208</td>
<td>Reproductive Physiology &amp; Development</td>
<td>10</td>
<td>2</td>
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<tr>
<td>BIOL209</td>
<td>Immunology</td>
<td>10</td>
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<tr>
<td>BIOL210</td>
<td>Molecular Biology</td>
<td>10</td>
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<tr>
<td>BIOL211</td>
<td>Microbiology</td>
<td>10</td>
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<tr>
<td>BIOL212</td>
<td>Plant Cell Biology</td>
<td>10</td>
<td>1</td>
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<tr>
<td>BIOL213</td>
<td>Cellular Biotechnology</td>
<td>10</td>
<td>2</td>
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<tr>
<td>BIOL214</td>
<td>Biotechnology Practice</td>
<td>10</td>
<td>2</td>
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<td>BIOL215</td>
<td>Plant Cell Biology</td>
<td>10</td>
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<td>BIOL216</td>
<td>Biotechnology</td>
<td>10</td>
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<td>BIOL217</td>
<td>Laboratory Professional Skills</td>
<td>10</td>
<td>1</td>
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<tr>
<td>BIOL218</td>
<td>Reproductive Physiology &amp; Development</td>
<td>10</td>
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<td>BIOL221</td>
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<td>BIOL222</td>
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<td>BIOL223</td>
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<td>BIOL224</td>
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<td>BIOL225</td>
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<td>BIOL226</td>
<td>Laboratory Professional Skills</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>BIOL227</td>
<td>Reproductive Physiology &amp; Development</td>
<td>10</td>
<td>2</td>
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<tr>
<td>BIOL228</td>
<td>Immunology</td>
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<tr>
<td>BIOL229</td>
<td>Molecular Biology</td>
<td>10</td>
<td>1</td>
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<tr>
<td>BIOL230</td>
<td>Microbiology</td>
<td>10</td>
<td>1</td>
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<td>BIOL231</td>
<td>Plant Cell Biology</td>
<td>10</td>
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</tr>
</tbody>
</table>

### Bachelor of Science (Biotechnology) (Honours)

Awards: BSc[BioTech][Hons]

The Bachelor of Science (Biotechnology) (Honours) is offered by the Faculty of Science and Mathematics.

**Admission Requirements**

To be eligible for admission to the Honours program, students must have:

- a completed Bachelor of Science (Biotechnology) degree (or equivalent);
- a Credit grade average of at least 40 credit points of 300 level BIOL subjects; and
- permission of the Head of School.

- In exceptional circumstances, this requirement may be varied with the permission of the Dean.

**Course Structure**

The Honours program is normally undertaken over one year of full-time study or two years part-time. It requires students to complete a total of 80 credit points by undertaking the subjects listed as Approved Subjects.

### Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL411</td>
<td>Biology Honours 411</td>
<td>20</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>BIOL412</td>
<td>Biology Honours 412</td>
<td>20</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>BIOL413</td>
<td>Biology Honours 413</td>
<td>20</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>BIOL414</td>
<td>Biology Honours 414</td>
<td>20</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>BIOL415</td>
<td>Biology Honours 415</td>
<td>20</td>
<td>1, 2</td>
<td></td>
</tr>
</tbody>
</table>

**Schedule**

Admission to Candidature

1. In order to be admitted to candidature for the degree an applicant shall:
   - have completed the requirements for admission to the degree of Bachelor of Science (Biotechnology) of the University or to any other degree approved by the Faculty Board; and
   - have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department of Biological Sciences.

Qualification for Admission to the Degree

2. To qualify for admission to the degree a candidate shall pass subjects at the 400 level totalling 80 credit points chosen from the subjects approved by the Faculty Board.

Classes of Honours

3. There shall be three classes of honours: Class I, Class II, and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

Time Requirements

4. Except with the permission of the Faculty Board, a candidate shall complete the course in not more than two years of study.
Bachelor of Science (Building)

Award Abbreviation: BSc(Build)

The Bachelor of Science (Building) course is offered by the Faculty of Architecture, Building and Design. The course has been developed in response to an identified demand in Asia for a qualification in construction management that can be delivered locally, and that can articulate into a professionally recognised program offered by the University of Newcastle. The University of Newcastle currently offers a four year direct honours Bachelor of Construction Management (Building) course which is accredited by both the Australian Institute of Building and the Australian Institute of Quantity Surveyors.

Many countries in Asia are experiencing construction booms, but are short of building professionals. Local universities are unable to offer sufficient programs in the discipline to cope with local demand.

The Bachelor of Science (Building) is a three year non-honours program which is equivalent in content to the first three years of the Bachelor of Construction Management (Building) course. The latter is an integrated program delivered using problem-based learning.

The Bachelor of Science (Building) is structured by discipline area subjects for conventional delivery. Teaching of the program is generally undertaken by the local faculty at an off-shore institution, under license.

Criteria for Admission of Students

A wide variety of overseas qualifications may be considered for entry to the course. In general a qualification equivalent to the Australian Year 12 is required.

Articulation Arrangements

Graduates with the Bachelor of Science (Building) are entitled to articulate into the final year of the Bachelor of Construction Management program and complete this by on-campus study or distance education.

Course Program

The course comprises forty-two semester-length subjects worth 5 credit points each, one industrial training component worth 10 credit points, and a major project worth 20 credit points to be carried out in the final semester of study. There are no optional subjects or electives.

A typical program of study for the whole course would be:

Year 1
16 x 5 credit point subjects
80 credit points

Year 2
16 x 5 credit point subjects
80 credit points

Year 3
10 x 5 credit point subjects
50 credit points

1 x 10 credit point Industrial Training
10 credit points

1 x 20 credit point Major Project
80 credit points

Assessment

Assessment varies from subject to subject. Generally assessment includes: progressive assessment based on assignments in the form of essays, reports, case studies, presentations or projects; and final examinations. The range is designed to assess the development of theoretical knowledge as well as the capacity to exploit this knowledge in application to specific work situations. This combination is particularly important given the applied nature of the discipline.

Schedule

Course Program

1. The Bachelor of Science (Building) course shall be offered as an off-shore program.

Qualification for the Degree

2. To qualify for admission to the degree a candidate shall pass a program of study approved by the Faculty Board totalling 240 credit points.

Grading of the Degree

3. The degree shall be conferred as an ordinary degree.

Credit

4. A candidate may be granted credit:

(a) for up to 160 credit points in recognition of subjects completed at another tertiary institution which have not been previously counted towards a completed award.

(b) for up to 120 credit points in recognition of subjects completed at another tertiary institution and previously counted towards a completed award.

(c) Notwithstanding sub-clause (b), a candidate who has satisfied the requirements of the Advanced Diploma in Building at the Warner's Institute of Technology, Malaysia, may be granted credit for up to 200 credit points.
The Bachelor of Science degree provides basic skills and knowledge to contribute to scientific development in many areas of technology, industry, agriculture or the environment. It can be an essential building block for a career in the vast field of science or can serve as an excellent general education with the ability to undertake a limited number of subjects offered by other faculties of the University, for example, Arts and Social Science or Economics and Commerce.

The disciplines of Biological Sciences, Chemistry, Geology, Mathematics and Psychology are all accredited by the appropriate national Professional Societies which offer membership to graduates according to qualifications and experience.

### Course Structure

The degree is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totaling 240 credit points. Most subjects have a value of 10 credit points.

Full-time students undertake at least six science subjects in their first year (60 credit points at 100 level) selected from three disciplines, such as Biological Sciences, Geography and Physics. A further 20 credit points of subjects are selected from the remaining sciences (Chemistry, Mathematics and Psychology) or from subjects offered by another faculty. A student may wish, for instance, to study a modern language, (French, German, Chinese and Japanese) available in conjunction with the study of science. There are many other possibilities.

In each year within each subject area, there is a range of subjects from which to choose. It is compulsory to undertake at least one area of science for three years to achieve what is known as a Major Sequence. A student can major in two areas or concentrate on one area at third year level. A minimum of 60 credit points of subjects must be taken at 200 level and at 300 level.

An example of a degree pattern in which Geography and Geology are taken as Major Sequence is outlined below.

For information about credit points, semesters of offer and assumed knowledge requirements, see the list of Approved Subjects.

### Approved Subjects

#### Group A Subjects - offered at Callaghan Campus

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL101</td>
<td>Introduction to Cell &amp; Molecular Biology</td>
<td>10</td>
<td>1</td>
<td>(BS, CHEM101, CHEM102) or GENETICS101, GENETICS102</td>
</tr>
<tr>
<td>BIOL102</td>
<td>Introductory Biology: Cells to Organisms</td>
<td>10</td>
<td>2</td>
<td>(BS, CHEM101, CHEM102) or GENETICS101, GENETICS102</td>
</tr>
<tr>
<td>BIOL111</td>
<td>Introductory Biology: Ecosystems &amp; Communities</td>
<td>10</td>
<td>1</td>
<td>(BS, CHEM101, CHEM102) or GENETICS101, GENETICS102</td>
</tr>
<tr>
<td>BIOL103</td>
<td>Animal Physiology &amp; Development</td>
<td>10</td>
<td>1</td>
<td>(BS, CHEM101, CHEM102) or GENETICS101, GENETICS102</td>
</tr>
<tr>
<td>BIOL104</td>
<td>Cell &amp; Molecular Biology</td>
<td>10</td>
<td>2</td>
<td>(BS, CHEM101, CHEM102) or GENETICS101, GENETICS102</td>
</tr>
<tr>
<td>BIOL105</td>
<td>Molecular Genetics</td>
<td>10</td>
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<tr>
<td>BIOL106</td>
<td>Ecology</td>
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<tr>
<td>BIOL107</td>
<td>Biochemistry</td>
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<td>BIOL108</td>
<td>Microbial Ecology</td>
<td>10</td>
<td>2</td>
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<tr>
<td>BIOL109</td>
<td>Plant Cell Development</td>
<td>10</td>
<td>1</td>
<td>(BS, CHEM101, CHEM102) or GENETICS101, GENETICS102</td>
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<tr>
<td>BIOL110</td>
<td>Ecology &amp; Management of Australian Flora</td>
<td>10</td>
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<tr>
<td>BIOL111</td>
<td>Australian Fauna</td>
<td>10</td>
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<td>BIOL112</td>
<td>Reproductive Physiology &amp; Development</td>
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<td>BIOL113</td>
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<td>BIOL115</td>
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<td>BIOL116</td>
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<td>BIOL117</td>
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<td>BIOL118</td>
<td>Plant Development</td>
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<td>Cell Biology</td>
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<tr>
<td>BIOL122</td>
<td>Wetland Ecology</td>
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<tr>
<td>BIOL123</td>
<td>Restoration Ecology</td>
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<tr>
<td>BIOL124</td>
<td>Conservation Biology</td>
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</table>

For information about credit points, semesters of offer and assumed knowledge requirements, see the list of Approved Subjects.
## Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
GEOG209 | Statistical Methods in Geography and Environmental Science | 5 | 1 | GEOG101 or GEOG102 or ENV104
GEOG210 | Methods in Physical Geography | 5 | 1 | GEOG101 or ENV104
GEOG211 | Methods in Human Geography | 5 | 1 | GEOG101 or GEOG102 or ENV104
GEOG213 | Geography of Development | 10 | 2 | GEOG102
GEOG214 | Outback Diversity | 10 | 2 | GEOG209 and GEOG210 or GEOG211 and ENV201 (or GEOG209 and GEOG210 or ENV201 plus EMGT101)
GEOG301 | Advanced Methods in Physical Geography | 10 | 2 | GEOG209 and GEOG210 and one of GEOG209, GEOG204 or EMGT201
GEOG302 | Advanced Methods in Human Geography | 10 | 2 | GEOG209 and GEOG211 and either GEOG209 or GEOG208
GEOG309 | Society & Space | 10 | 1 | GEOG209, GEOG211 and either GEOG209 or GEOG208
GEOG317 | Advanced Climatology | 10 | 2 | GEOG209, GEOG210 or ENV203, GEOG208
GEOG320 | Quaternary Environments | 10 | 2 | GEOG209, GEOG210 or ENV203 and either GEOG209 or EMGT201
GEOG321 | Advanced Biogeography and Climatology | 10 | 2 | GEOG209 and GEOG210 or GEOG211 or ENV204
GEOG322 | Coastal Dynamics, Evolution & Protection | 10 | 1 | GEOG209, GEOG210 or ENV204
GEOG323 | Post-colonial Geographies | 10 | 2 | GEOG209, GEOG211 and one of GEOG207, GEOG208 or GEOG211
GEOG324 | Globalisation: Cities, Economies | 10 | 2 | GEOG209, GEOG211 and one of GEOG207, GEOG208 or GEOG211
GEOG325 | Geographic Information Systems | 10 | 1 | 40 credit points in 200 level GEOG/ENVM/GEOM

## Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
GEO101 | Planet Earth | 10 | 1 | GEO101
GEO102 | Earth Materials | 10 | 2 | GEO102
GEO213 | Ancient Environments & Organisms | 10 | 2 | GEO202
GEO215 | Geology Field Course 215 | 10 | 1 | GEO202
GEO217 | Optical Mineralogy & Igneous Petrology | 10 | 1 | GEO202
GEO218 | Sedimentary & Metamorphic Petrology | 10 | 2 | GEO211 or GEO217
GEO219 | Structural & Field Geology | 10 | 2 | GEO215
GEO311 | Igneous Petrology & Crustal Evolution | 10 | 1 | GEO212
GEO312 | Metamorphic Petrology | 10 | 1 | GEO212
GEO313 | Structural Geology and Geophysics | 10 | 1 | GEO212
GEO315 | Basin Analysis | 10 | 2 | GEO212, GEO213
GEO316 | Geology of Fossils | 10 | 1 | GEO213
GEO317 | Resource & Exploration Geology | 10 | 2 | GEO212, GEO214
GEO321 | Geology Field Course 321 | 10 | 2 | GEO216, GEO312
GEO322 | Environmental Geology | 10 | 2 | GEO213 or GEO214 or GEO215
GEO332 | Geology Field Course in Carbonate Environments | 10 | 1 | GEO213

## Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
Mathematics | Advanced Mathematics 121 | 10 | 1 | 2 Unit HSC Mathematics with a mark of at least 120/150
Mathematics | Advanced Mathematics 122 | 10 | 2 | MATH121
Mathematics | Mathematics 111 | 10 | 1, 2 | 2 Unit HSC Mathematics (Maths C/2 or 3) or MATH111
Mathematics | Mathematics 112 | 10 | 1, 2 | MATH111 or MATH121
Mathematics | Multivariate Calculus | 5 | 1 | MATH112 or MATH111
Mathematics | Ordinary Differential Equations 1 | 5 | 1, 2 | MATH112 or MATH111

## Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
Physics | Introductory Physics for Engineers and Scientists | 10 | 1 | See 3
Physics | Physics for Engineers and Scientists II | 10 | 2 | See 4
Physics | Advanced Physics for Scientists and Engineers I | 10 | 1 | See 5
Physics | Advanced Physics for Scientists and Engineers II | 10 | 2 | See 5
Physics | Introduction to Astronomy | 10 | 2 | MATH112, PHYS113, PHYS114
Physics | Variational and Statistical Methods | 5 | 1 | PHYS114
Physics | Optics | 5 | 1 | PHYS113, PHYS114 and either MATH111/112 or MATH112/121
Physics | Physics of Semiconductors | 5 | 1 | PHYS113, PHYS114 and either MATH111/112 or MATH112/121
Physics | Quantum Mechanics | 5 | 2 | PHYS113, PHYS114 and either MATH111/112 or MATH112/121
Physics | Electromagnetism | 5 | 2 | PHYS113, PHYS114, MATH121
Physics | Quantum Mechanics | 5 | 1 | PHYS211, PHYS212, MATH201, MATH202
Physics | Atomic and Molecular Physics | 5 | 2 | PHYS211, PHYS212
Physics | Nuclear Physics | 5 | 1 | PHYS211, PHYS212
Physics | Mathematics of Physical Systems | 5 | 1 | PHYS211, PHYS212
Physics | Statistics | 5 | 1 | PHYS211, PHYS212
Physics | Computer Modelling for Physical Scientists | 10 | 2 | All credit points of 200 level Science and Mathematics subjects
Physics | Applications in Electromagnetism I | 5 | 2 | PHYS211, PHYS212, MATH201
### Psychology

Students may choose to complete the subjects comprising the first three years of the Bachelor of Science (Psychology) program and thereby meet certain Australian Psychological Society (APS) requirements for an accredited sequence of three years. The APS advises that this would enable Associate Membership if the course is supplemented by an APS accredited fourth year of study such as the Bachelor of Science (Honours) in Psychology.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent</th>
<th>Assumed Knowledge(DK)</th>
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<td>Psychology Introduction 1</td>
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<td>PSYC102</td>
<td>Psychology Introduction 2</td>
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<td>PSYC101</td>
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<td>PSYC103</td>
<td>General Psychology 7</td>
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<td>PSYC201</td>
<td>Advanced Foundations for Psychology</td>
<td>10</td>
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<td>PSYC202</td>
<td>Advanced Basic Processes 1</td>
<td>10</td>
<td>2</td>
<td>PSYC102, CE, PSYC07</td>
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<tr>
<td>PSYC203</td>
<td>Advanced Basic Processes 2</td>
<td>10</td>
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<td>PSYC204</td>
<td>Advanced Basic Processes 3</td>
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<td>2</td>
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<td>PSYC205</td>
<td>Advanced Basic Processes 4</td>
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<td>2</td>
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<td>PSYC208</td>
<td>Advanced Applied Topics in Psychology</td>
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<td>PSYC271</td>
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<td>PSYC209</td>
<td>Topics in Neural Science</td>
<td>10</td>
<td>2</td>
<td>PSYC201, PSYC101</td>
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<td>PSYC310</td>
<td>Social and Organisational Psychology</td>
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<td>PSYC311</td>
<td>Associate Learning</td>
<td>10</td>
<td>1</td>
<td>PSYC201, PSYC101</td>
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<tr>
<td>PSYC312</td>
<td>Research Project Design</td>
<td>10</td>
<td>2</td>
<td>PSYC201, PSYC101</td>
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### Schedule

**Interpretation**

1. In this schedule, "discipline" means a branch of learning recognised as such by the Faculty Board.

**Qualification for the Degree**

2. (1) To qualify for admission to the Degree, candidates shall pass subjects totalling 240 credit points of which 150 credit points shall be selected from the list of Approved Subjects in Group A and comprising:
   - at least 60 and not more than 100 credit points from 100 level subjects;
   - at least 60 credit points from 200 level subjects;
   - at least 60 credit points from 300 level subjects.
   - at least 150 credit points from Group A subjects consisting of:
     - 60 credit points at the 100 level comprising at least 20 credit points chosen from each of three disciplines;
     - a sequence of at least 20 credit points at the 100 level, 30 credit points at the 200 level and 40 credit points at the 300 level chosen from a single discipline;
     - not more than 160 credit points chosen from a single discipline; and
     - subjects at the 300 level from not more than three disciplines.
   - 50 credit points from Group B subjects.
   - 50 credit points or more from Group B subjects.

   (2) The subjects shall be chosen in accordance with the following conditions:
   - at least 150 credit points from Group A subjects consisting of:
     - 60 credit points at the 100 level comprising at least 20 credit points chosen from each of three disciplines;
     - a sequence of at least 20 credit points at the 100 level, 30 credit points at the 200 level and 40 credit points at the 300 level chosen from a single discipline;
     - not more than 160 credit points chosen from a single discipline; and
     - subjects at the 300 level from not more than three disciplines.
   - 50 credit points from Group B subjects.

   (3) Approval of any Group B subject shall require the approval of the Dean.

   (4) A candidate for the degree of Bachelor of Science (Psychology) shall have completed:
     - at least one of the following subjects at another tertiary institution with which the University has entered an agreement for the reciprocal recognition of credit points completed at another tertiary institution:
     - not more than 150 credit points from Group B subjects; and
     - 50 credit points or more from Group B subjects.

   (5) Except with the permission of the Dean, candidates granted credit in recognition of work completed at another institution must complete at least 40 credit points at the 300 level at the University.

**Credit**

3. (1) A candidate may be granted credit:
   - for up to 160 credit points in recognition of subjects completed at another tertiary institution which have not been previously counted towards a completed award;
   - for as many credit points as the Faculty Board determines is recognition of subjects completed in the University which have not been previously counted towards a completed award; and
   - for up to 110 credit points in recognition of subjects completed and previously counted towards a completed award.

   (2) Except with the permission of the Dean, candidates granted credit in recognition of work completed at another institution must complete at least 40 credit points at the 300 level at the University.

**Time Requirements**

4. (1) Except with the permission of the Faculty Board, a candidate shall complete the course within nine years of study.

   (2) A candidate granted credit shall be deemed to have commenced the course from a date determined by the Dean at the time at which credit is granted.

**Combined Degrees**

5. A candidate may undertake one of the following combined degree programs in accordance with Rule 12 of the Rules Governing Academic Awards, namely:
   - Science/Arts
   - Science/Computer Science
   - Science/Mathematics
   - Science/Engineering
   - Science/Laws.
The Bachelor of Science is available on both the Callaghan and Central Coast Campuses. The Faculty of the Central Coast is responsible for the course as it is conducted on the Central Coast Campus.

A Bachelor of Science degree provides students with the basic skills and knowledge to contribute to scientific development in many areas of technology, industry, agriculture or the Information Revolution. It can be an essential building block for a career in the fast field of science or can serve as an excellent general education providing skills in problem solving and research. A science degree can thus be generalist and vocational at the same time.

A range of career opportunities is available for the various areas in which students can specialise. These include Biotechnology, Chemistry, Marine Science, Psychology and Sustainable Resource Management. In addition, students may choose to undertake a limited number of subjects offered by other Faculties of the University, for example, Arts and Social Science or Economics and Commerce.

The Departments of Biological Sciences, Chemistry, and Psychology are all accredited by the appropriate national Professional Societies which offer membership to graduates according to qualifications and experience.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/oua/tafe/credit/index.htm

Course Structure
The degree is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totalling 240 credit points.

Full-time students undertake at least six science subjects in their first year (60 credit points at 100 level) selected from three disciplines, such as Biological Sciences, Chemistry and Psychology. A further 20 credit points of subjects are selected from the remaining science subjects (Geography, Mathematics, Physics, Sustainable Resource Management, Computing in Science subjects offered by another Faculty).

In each year, within each subject area, there is a range of subjects from which to choose. It is compulsory to undertake subjects in at least one Science area for three years to achieve what is known as a Major Sequence. A Science student can major in two areas or concentrate on one area at third year level. A minimum of 60 credit points must be taken at 200 level and at 300 level.

Following are examples of two degree patterns.

For information about credit points, semesters of offer and assumed knowledge, see the list of Approved Subjects. This list includes the subjects available at the Central Coast Campus. Students may also enrol in subjects at the Callaghan Campus.

### Sustainable Resource Management Major Sequence

#### Year 1 (70 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON12A</td>
<td>Natural and Social Systems (two subjects)</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>BIOC100C</td>
<td>Introduction to Biology 1 and 2 (two subjects)</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>BIOC100C</td>
<td>Biochemistry</td>
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<td>BIOC100C</td>
<td>Ecology</td>
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#### Year 2 (70 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
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</tr>
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<tbody>
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<td>BIOC100C</td>
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<tr>
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</table>

### Marine Science Major Sequence

#### Year 1 (70 credit points)

<table>
<thead>
<tr>
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<td>Ecology</td>
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</table>

Approved Subjects

Group A Subjects - Offered at Central Coast Campus

Also see Group A Subjected listed under Bachelor of Science offered at Callaghan Campus

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<td>ECON12A</td>
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For information about credit points, semesters of offer and assumed knowledge, see the list of Approved Subjects. This list includes the subjects available at the Central Coast Campus. Students may also enrol in subjects at the Callaghan Campus.

### TAFE Credit

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### Course Structure

The degree is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totaling 240 credit points.

Full-time students undertake at least six science subjects in their first year (60 credit points at 100 level) selected from three disciplines, such as Biological Sciences, Chemistry and Psychology. A further 20 credit points of subjects are selected from the remaining science subjects (Geography, Mathematics, Physics, Sustainable Resource Management, Computing in Science subjects offered by another Faculty).

In each year, within each subject area, there is a range of subjects from which to choose. It is compulsory to undertake subjects in at least one Science area for three years to achieve what is known as a Major Sequence. A Science student can major in two areas or concentrate on one area at third year level. A minimum of 60 credit points must be taken at 200 level and at 300 level.

Following are examples of two degree patterns.

For information about credit points, semesters of offer and assumed knowledge, see the list of Approved Subjects. This list includes the subjects available at the Central Coast Campus. Students may also enrol in subjects at the Callaghan Campus.

### Sustainable Resource Management Major Sequence

#### Year 1 (70 credit points)

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#### Year 2 (70 credit points)

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<td>BIOC100C</td>
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### Marine Science Major Sequence

#### Year 1 (70 credit points)

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<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC100C</td>
<td>Introduction to Biology 1 and 2 (two subjects)</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>BIOC100C</td>
<td>Biochemistry</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>BIOC100C</td>
<td>Ecology</td>
<td>10</td>
<td>2</td>
</tr>
</tbody>
</table>

Approved Subjects

Group A Subjects - Offered at Central Coast Campus

Also see Group A Subjected listed under Bachelor of Science offered at Callaghan Campus

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON12A</td>
<td>Natural and Social Systems (two subjects)</td>
<td>10</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>BIOC100C</td>
<td>Introduction to Biology 1 and 2 (two subjects)</td>
<td>10</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>BIOC100C</td>
<td>Biochemistry</td>
<td>10</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>BIOC100C</td>
<td>Ecology</td>
<td>10</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

For information about credit points, semesters of offer and assumed knowledge, see the list of Approved Subjects. This list includes the subjects available at the Central Coast Campus. Students may also enrol in subjects at the Callaghan Campus.
Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
FISH101 | Food and Nutrition I | 10 | 2 | 
FISH201 | Food and Nutrition II | 10 | 2 | 
FOOD201 | Grain Food Science & Technology | 10 | 2 | 30 credit points at 100 level
FOOD202 | Dairy Food Science & Technology | 10 | 2 | 30 credit points at 100 level
FOOD203 | Animal Food Science & Technology | 10 | 2 | 30 credit points at 100 level
FOOD204 | Horticultural Food Science & Technology | 10 | 2 | 30 credit points at 100 level
FOOD205 | Microbiology & Food Safety | 10 | 1 | BIOL104C, BIOL105C
FOOD301 | Food Processing & Quality Management | 10 | 1 | FOOD201, FOOD202
Bachelor of Science (Food Technology) (Central Coast Campus)

Award Abbrebiation: BSc(FoodTech)

The Bachelor of Science (Food Technology) is offered by the Faculty of the Central Coast. The degree provides a strong background in the relevant basic sciences: Chemistry, Biology and Physics, as well as applied aspects of food technology.

Food technologists are able to retain the quality, safety and nutritional value of natural foods such as milk and fruit during manufacture and marketing; develop processes that turn raw materials such as grains into desirable food products such as breakfast cereals; and manage the operations and quality control of diverse food processing plants. They are also able to devise ingredients and processes to give new food products a desirable color, taste and texture. Career opportunities exist with food processing firms, companies that market and distribute food, and government bodies such as the CSIRO and NSW Health Department.

Graduates are eligible for professional membership of the Australian Institute of Food Science and Technology.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/student/tafecred/index.htm

Course Structure

The course is completed over three years of full-time study (or equivalent part-time) and requires students to pass subjects totaling 240 credit points.

Most subjects are compulsory with a Major Sequence undertaken in Food Technology supported by studies in Biology, Chemistry, Physics and Marketing.

For information about credit points, semesters of offer and assumed knowledge requirements, see the list of Approved Subjects.

Note: This course has been revised.

Continuing students only should follow the second and third year programs outlined below.

Year 1 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSN101</td>
<td>Foods and Nutrition I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PSN102</td>
<td>Foods and Nutrition II</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BIO104C</td>
<td>Introduction to Biology 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BIO105C</td>
<td>Introduction to Biology 2</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CHEM111C</td>
<td>Chemistry for Life Sciences I</td>
<td>10</td>
<td>1</td>
<td>BIO104, BIO105</td>
</tr>
<tr>
<td>CHEM112C</td>
<td>Chemistry for Life Sciences II</td>
<td>10</td>
<td>2</td>
<td>BIO104, BIO105, CHEM111, CHEM112</td>
</tr>
<tr>
<td>MKTG100C</td>
<td>Marketing Principles</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>STIC101</td>
<td>Computing and Communication in Science</td>
<td>10</td>
<td>1, 2</td>
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</tbody>
</table>

Year 2 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD201</td>
<td>Grain Food Science &amp; Technology</td>
<td>10</td>
<td>1</td>
<td>30 credit points at 100 level</td>
</tr>
<tr>
<td>FOOD202</td>
<td>Dairy Food Science &amp; Technology</td>
<td>10</td>
<td>2</td>
<td>30 credit points at 100 level</td>
</tr>
<tr>
<td>FOOD203</td>
<td>Animal Food Science and Technology</td>
<td>10</td>
<td>1</td>
<td>30 credit points at 100 level</td>
</tr>
<tr>
<td>FOOD204</td>
<td>Horticultural Food Science and Technology</td>
<td>10</td>
<td>1</td>
<td>30 credit points at 100 level</td>
</tr>
<tr>
<td>BIO104C</td>
<td>Microbiology and Food Safety</td>
<td>10</td>
<td>1</td>
<td>BIOD104, BIOD105</td>
</tr>
<tr>
<td>BIO105C</td>
<td>Biochemistry</td>
<td>10</td>
<td>2</td>
<td>BIOD104, BIOD105, CHEM111, CHEM112</td>
</tr>
<tr>
<td>NUT202C</td>
<td>Nutrients</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MKTG200C</td>
<td>Consumer Behaviour</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>FSED201</td>
<td>Food Processing and Quality Management</td>
<td>10</td>
<td>1</td>
<td>FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED210</td>
<td>Food Biotechnology</td>
<td>10</td>
<td>2</td>
<td>BIOD104, BIOD210</td>
</tr>
<tr>
<td>FSED211</td>
<td>Sensory Food Evaluation</td>
<td>10</td>
<td>1</td>
<td>10 credit points of FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED212</td>
<td>Food Product Development</td>
<td>10</td>
<td>1</td>
<td>10 credit points of FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED213</td>
<td>Food Analysis</td>
<td>10</td>
<td>2</td>
<td>CHEM111, 20 credit points of FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED214</td>
<td>Food Packaging</td>
<td>10</td>
<td>2</td>
<td>FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED215</td>
<td>Biometrics</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Year 3 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD203</td>
<td>Food Processing and Quality Management</td>
<td>10</td>
<td>1</td>
<td>FOOD201, FOOD202</td>
</tr>
<tr>
<td>FOOD210</td>
<td>Food Biotechnology</td>
<td>10</td>
<td>2</td>
<td>BIOD104, BIOD210</td>
</tr>
<tr>
<td>FSED211</td>
<td>Sensory Food Evaluation</td>
<td>10</td>
<td>1</td>
<td>10 credit points of FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED212</td>
<td>Food Product Development</td>
<td>10</td>
<td>1</td>
<td>10 credit points of FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED213</td>
<td>Food Analysis</td>
<td>10</td>
<td>2</td>
<td>CHEM111, 20 credit points of FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED214</td>
<td>Food Packaging</td>
<td>10</td>
<td>2</td>
<td>FOOD201, FOOD202</td>
</tr>
<tr>
<td>FSED215</td>
<td>Biometrics</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Schedule

Qualification for the Degree

1. To qualify for admission to the degree, candidates shall pass subjects totaling 240 credit points from the list of Approved Subjects including the prescribed subjects, unless the Faculty Board approves otherwise in a particular case, and comprising:
   a. a maximum of 100 credit points from 100 level subjects;
   b. at least 60 credit points from 200 level subjects; and
   c. at least 60 credit points from 300 level subjects.

Credit

2. (1) A candidate may be granted credit:
   a. for up to 160 credit points in recognition of subjects completed at another tertiary institution which have not been previously counted towards a completed degree;
   b. for as many credit points as the Faculty Board determines in recognition of subjects completed in the University which have not been previously counted towards an award;
Bachelor of Science (Food Technology) (Honours) (Central Coast Campus)

Award Abbreviation: BSc(FoodTech)(Hons)

The Bachelor of Science (Food Technology) (Honours) is offered by the Faculty of the Central Coast. The Honours program comprises coursework, a food product development project and a research project.

Admission Requirements
To be eligible for admission to the Honours program students must have:

- a completed Bachelor of Science (Food Technology) degree (or equivalent);
- a Credit grade average in at least 40 credit points of 300 level FOOD subjects or other subjects at 300 level* as approved by the Head of School;
- permission of the Head of School.
- In exceptional circumstances, this requirement may be waived with the permission of the Dean.

Course Structure
The Honours degree may be completed over one year of full-time study or two years part-time at the Central Coast Campus. It requires students to complete a total of 80 credit points by undertaking the subjects listed in Approved Subjects.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD411</td>
<td>Food Technology Honours 411</td>
<td>20</td>
<td>1 or 2</td>
</tr>
<tr>
<td>FOOD412</td>
<td>Food Technology Honours 412</td>
<td>20</td>
<td>1 or 2</td>
</tr>
<tr>
<td>FOOD413</td>
<td>Food Technology Honours 413</td>
<td>20</td>
<td>1 or 2</td>
</tr>
<tr>
<td>FOOD414</td>
<td>Food Technology Honours 414</td>
<td>20</td>
<td>1 or 2</td>
</tr>
</tbody>
</table>

Schedule

1. In order to be admitted to candidature to the degree an applicant shall:
   (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Science (Food Technology) of the University or any other degree approved by the Faculty Board; and
   (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the head of the Department of Food Technology.

2. To qualify for the degree, a candidate shall pass subjects at the 400 level totalling 80 credit points chosen from the list of approved subjects approved by the Faculty Board.

3. There shall be three classes of Honours: Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

4. Except with the permission of the Faculty Board, a candidate shall complete the course in not more than two years of study.

5. For candidates undertaking the part-time program:
   (1) the degree shall be conferred as an ordinary Degree except that, where the performance of a candidate has reached a standard of sufficient merit, the degree shall be conferred with Honours.
   (2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions, namely Division 1 and Division 2.

6. Except with the permission of the Faculty Board, a candidate shall complete the course within eight years of study.

7. There shall be three classes of honours:
   (a) have completed the requirements prescribed in the List of Approved Subjects
   (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of School;
   (c) for up to 110 credit points in recognition for subjects completed and previously counted towards an award.

8. Except with the permission of the Dean, candidates granted credit in recognition of work completed at another University or any other degree approved by the Faculty Board; and
   (a) have completed a completed Bachelor of Science (Forensic Science) degree at another University or any other degree approved by the Faculty Board.
   (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of School.

9. The degree shall be conferred as an ordinary Degree except that, where the performance of a candidate has reached a standard of sufficient merit, the degree shall be conferred with Honours.

Bachelor of Science (Forensic) Required Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc101</td>
<td>Introduction to Cell &amp; Molecular Biology</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CHEM101</td>
<td>Introductory Chemistry I</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>BSc102</td>
<td>Introductory Biology: Cells to Organisms</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CHEM102</td>
<td>Introductory Chemistry II</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>BSc106</td>
<td>Molecular Genetics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CHEM231</td>
<td>Organic Chemistry</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>PHYS110</td>
<td>Introductory Physics for Life Sciences</td>
<td>10</td>
<td>1</td>
</tr>
</tbody>
</table>

Bachelor of Science (Forensic)/Bachelor of Laws

Award Abbreviations: BSc, LLB

The Bachelor of Science (Forensic) degree can at present only be undertaken as part of a combined law degree program. It cannot be taken as a stand alone degree.

The Bachelor of Science (Forensic)/Bachelor of Laws combined degree program is offered by the Faculty of Science and Mathematics and the Faculty of Law. Within the combined degree program, students undertake a total of 150 credit points of Bachelor of Science (Forensic) subjects and 250 credit points of LLB subjects for the Bachelor of Laws.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at: http://www.newcastle.edu.au/services/australia/tafecredit/index.htm.

Program Structure

The Bachelor of Science (Forensic)/Bachelor of Laws combined degree program is undertaken over five years of full-time study.

To satisfy the current requirements of this combined degree program, students undertake the following standard program, including the subjects identified below for the Bachelor of Science (Forensic).
The Bachelor of Science (Honours) is offered by the Faculty of Science and Mathematics. It is available in the specialisations of Biological Sciences, Chemistry, Geography, Geology, Mathematics, Physics and Psychology.

To be eligible for admission to theHonours program, students must have:

- a completed Bachelor of Science degree (or equivalent);
- a Credit grade average in at least 40 credit points of 300 level subjects in the relevant discipline or other subjects at 300 level* as approved by the Head or Deputy Head of School; and
- permission of the Head or Deputy Head of School.

Students seeking to complete the Bachelor of Science (Honours) with a specialisation in Psychology, must have completed:

- PSYC101 and PSYC102; and
- 40 credit points in Psychology at 300 level, including PSYC207; and
- 60 credit points in Psychology at 300 level, including PSYC301; and
- have achieved at least a Credit grade average in their best 6 Psychology 300 level subjects (60 credit points).

Entry to the Honours program in Psychology is limited and competitive. Applicants compete on the basis of their results in their best 6 Psychology 300 level subjects (60 credit points). When there is a tie between two or more applicants, a decision is based on results in Psychology 200 level subjects.

With respect to other disciplines, and in exceptional circumstances, this requirement may be varied with the approval of the Dean.

### Course Structure

The Honours program is normally undertaken over one year of full-time study or two years part-time. Students are required to complete 80 credit points in one discipline (anaxon the list of approved subjects.

### Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL01</td>
<td>Biology Honours 1</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>BIOL02</td>
<td>Biology Honours 2</td>
<td>20</td>
<td>1</td>
</tr>
</tbody>
</table>

### Schedule

**Admission to Candidature**

A candidate may undertake the Honours Degree in either one or two disciplines.

2. In order to be admitted to candidature for the Degree in a single discipline an applicant shall:

   (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Science of the University or to any other degree approved by the Faculty Board; and
   (b) have completed such other work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department responsible for the discipline.

3. In order to be admitted to candidature for the Degree in two disciplines, an applicant shall:

   (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Science of the University or to any other degree approved by the Faculty Board; and
   (b) have completed such other work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Heads of the Departments responsible for the disciplines.

**Qualification for Admission to the Degree**

4. To qualify for admission to the Degree a candidate shall pass subjects at the 400 level totalling 80 credit points chosen from the list of Approved Subjects.

### Classes of Honours

5. There shall be three classes of Honours: Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

### Time Requirements

6. Except with the permission of the Faculty Board, a candidate shall complete the course in not more than two years of study.
Bachelor of Science (Honours) (Central Coast Campus)
Award Abbreviation: BSc(Hons)

The Bachelor of Science (Honours) is available on both the Callaghan and Central Coast campuses. The Faculty of the Central Coast is responsible for the course as it is conducted on the Central Coast Campus. It is available in the specialisations of Applied Biology, Applied Chemistry, Marine Science and Sustainable Resource Management.

Admission Requirements
To be eligible for admission to the Honours program, students must have:

- a completed Bachelor of Science degree (or equivalent);
- a Credit grade average in at least 40 credit points of 300 level subjects in the relevant discipline or other subjects at 300 level as approved by the Head of School; and
- permission of the Head of School.

In exceptional circumstances, this requirement may be varied with the approval of the Dean.

Course Structure
The Honours degree may be completed over one year of full-time study or two years part-time. The course requires students to complete 80 credit points in one discipline from the list of approved subjects.

Approved Subjects
Select 80 credit points in one discipline:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEC421</td>
<td>Applied Biology Honours 421</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STEC422</td>
<td>Applied Biology Honours 422</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STEC523</td>
<td>Applied Biology Honours 433</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STEC544</td>
<td>Applied Biology Honours 444</td>
<td>20</td>
<td>1, 2</td>
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</table>

Applied Chemistry

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEC411</td>
<td>Applied Chemistry Honours 411</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STEC412</td>
<td>Applied Chemistry Honours 412</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STEC413</td>
<td>Applied Chemistry Honours 413</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>STEC414</td>
<td>Applied Chemistry Honours 414</td>
<td>20</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Marine Science

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR411</td>
<td>Marine Science Honours 411</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>MAR412</td>
<td>Marine Science Honours 412</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>MAR413</td>
<td>Marine Science Honours 413</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>MAR414</td>
<td>Marine Science Honours 414</td>
<td>20</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Sustainable Resource Management

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SREM411</td>
<td>Sustainable Resource Management Honours 411</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>SREM412</td>
<td>Sustainable Resource Management Honours 412</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>SREM413</td>
<td>Sustainable Resource Management Honours 413</td>
<td>20</td>
<td>1, 2</td>
</tr>
<tr>
<td>SREM414</td>
<td>Sustainable Resource Management Honours 414</td>
<td>20</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Schedule

Admission to Candidature
1. A candidate may undertake the Honours Degree in either one or two disciplines.
2. In order to be admitted to candidature for the Degree in a single discipline an applicant shall:
   (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Science of the University or to any other degree approved by the Faculty Board; and
   (b) have completed such other work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department responsible for the discipline.

Bachelor of Science (Photonics)
Award Abbreviation: BSc(Photonics) This course is proposed for commencement in 2001 subject to approval.

The Bachelor of Science (Photonics) is an exciting new degree offered by the Faculty of Science and Mathematics. Photonics is the area of science and technology which investigates and uses particles of light, called "photons". Photonics is a key technology underpinning the Internet and so is growing rapidly. The degree will equip its graduates with an excellent knowledge of modern optics, including lasers, detectors and optical waveguides and provide a range of experiences in research methods, data analysis, instrumentation and information technology as they apply to the photonics industry. There will also be an opportunity to work on a collaborative project with industry. Career opportunities include optical fibre and component research and development, production, testing and installation; medical application of lasers and detectors; telecommunications support and regulatory agencies.

TAFE Credit
Credit transfer agreements with TAFE NSW other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oaau/tafecredit/index.htm

Course Structure
The degree is completed over three years of full-time study (or part-time equivalent) and requires students to pass subjects totalling 240 credit points. For information about credit points, semesters of offer and assumed knowledge requirements, see the list of Approved Subjects.

Sample Program

<table>
<thead>
<tr>
<th>Year 1 (80 credit points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry (two subjects)</td>
</tr>
<tr>
<td>Computer Engineering I</td>
</tr>
<tr>
<td>Electrical Engineering I</td>
</tr>
<tr>
<td>Mathematics (two subjects)</td>
</tr>
<tr>
<td>Physics (two subjects)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 (80 credit points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantum Mechanics</td>
</tr>
<tr>
<td>Optical Design</td>
</tr>
<tr>
<td>Multivariable Calculus</td>
</tr>
<tr>
<td>Ordinary Differential Equations</td>
</tr>
<tr>
<td>Modern Optics</td>
</tr>
<tr>
<td>Introduction to Electronics</td>
</tr>
<tr>
<td>Signals and Systems</td>
</tr>
<tr>
<td>Advanced Electromagnetics for Scientists and Engineers</td>
</tr>
<tr>
<td>Engineering Mathematics I</td>
</tr>
<tr>
<td>Introduction to Telecommunications</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 (80 credit points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantum Mechanics</td>
</tr>
<tr>
<td>Atomic and Molecular Physics</td>
</tr>
<tr>
<td>Lasers</td>
</tr>
<tr>
<td>Extending and Digital Communications</td>
</tr>
</tbody>
</table>
### List of Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC110</td>
<td>Electrical Engineering I</td>
<td>10</td>
<td>1</td>
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<tr>
<td>ELEC170</td>
<td>Computer Engineering I</td>
<td>10</td>
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<tr>
<td>CHEM101</td>
<td>Introductory Chemistry I</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM102</td>
<td>Introductory Chemistry II</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MAAT111</td>
<td>Mathematics III</td>
<td>10</td>
<td>1</td>
<td>2 Unit HSC Mathematics (Advisory 65/100)</td>
</tr>
<tr>
<td>MAAT112</td>
<td>Mathematics 112</td>
<td>10</td>
<td>2</td>
<td>MAAT111 or MAAT121</td>
</tr>
<tr>
<td>MAAT121</td>
<td>Advanced Mathematics 121</td>
<td>10</td>
<td>1</td>
<td>3 Unit HSC Mathematics with a mark of at least 120/100</td>
</tr>
<tr>
<td>MAAT122</td>
<td>Advanced Mathematics 122</td>
<td>10</td>
<td>2</td>
<td>MAAT121</td>
</tr>
<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists &amp; Engineers I</td>
<td>10</td>
<td>1</td>
<td>HSC 2 Unit Mathematics &amp; 2 Unit Physics</td>
</tr>
<tr>
<td>PHYS114</td>
<td>Advanced Physics for Scientists &amp; Engineers II</td>
<td>10</td>
<td>2</td>
<td>PHYS112</td>
</tr>
</tbody>
</table>

### Year 2

- ELEC220: Introduction to Electronics  
  - Credit Points: 10  
  - Semester: 1  
  - Required Knowledge: ELEC130, ELEC170
- ELEC240: Signals & Systems  
  - Credit Points: 10  
  - Semester: 2  
  - Required Knowledge: MAAT112 or MAAT122
- ELEC250: Introduction to Telecommunications  
  - Credit Points: 10  
  - Semester: 2  
  - Required Knowledge: MAAT112 or MAAT122
- MAAT101: Multivariable Calculus  
  - Credit Points: 5  
  - Semester: 1  
  - Required Knowledge: MAAT112 or MAAT122
- MAAT102: Ordinary Differential Equations I  
  - Credit Points: 5  
  - Semester: 1  
  - Required Knowledge: MAAT112 or MAAT122
- MAAT122: Engineering Mathematics II  
  - Credit Points: 10  
  - Semester: 2  
  - Required Knowledge: MAAT121 or MAAT122, MAAT201
- PHYS121: Quantum Mechanics  
  - Credit Points: 5  
  - Semester: 1  
  - Required Knowledge: PHYS111, PHYS114 and either MAAT111 or MAAT122
- PHYS126: Modern Optics  
  - Credit Points: 10  
  - Semester: 1  
  - Required Knowledge: PHYS113
- PHYS127: Optical Design  
  - Credit Points: 5  
  - Semester: 1  
  - Required Knowledge: PHYS114
- PHYS125: Advanced Electromagnetics for Scientists & Engineers  
  - Credit Points: 10  
  - Semester: 2  
  - Required Knowledge: PHYS113, PHYS114, MAAT201

### Year 3

- ELEC350: Telecommunications Networks  
  - Credit Points: 10  
  - Semester: 1  
  - Required Knowledge: ELEC250 or ELEC270
- ELEC357: Analog & Digital Communications  
  - Credit Points: 10  
  - Semester: 1  
  - Required Knowledge: ELEC240, MAAT242
- PHYS311: Quantum Mechanics  
  - Credit Points: 5  
  - Semester: 1  
  - Required Knowledge: PHYS124, MAAT201, MAAT203
- PHYS314: Atomic & Molecular Physics  
  - Credit Points: 5  
  - Semester: 1  
  - Required Knowledge: PHYS124
- PHYS328: Nanotechnology  
  - Credit Points: 5  
  - Semester: 1  
  - Required Knowledge: PHYS120 or ELEC220, PHYS214
- PHYS330: Lasers  
  - Credit Points: 10  
  - Semester: 1  
  - Required Knowledge: PHYS126, PHYS135
- PHYS331: Optoelectronic Materials & Devices  
  - Credit Points: 5  
  - Semester: 1  
  - Required Knowledge: PHYS126, PHYS330, PHYS330
- PHYS332: Optical Communications  
  - Credit Points: 10  
  - Semester: 1  
  - Required Knowledge: PHYS126, PHYS330
- PHYS333: Industrial Project & Seminar  
  - Credit Points: 10  
  - Semester: 1  
  - Required Knowledge: ELEC350, PHYS216, PHYS217, PHYS338
- PHYS334: Mechanical Design of Optical Systems  
  - Credit Points: 10  
  - Semester: 1  
  - Required Knowledge: PHYS113, PHYS114

### Schedule

### Qualification for the Degree

1. To qualify for admission to the degree, candidates shall complete the requirements of the program determined by the Faculty Board which shall consist of subjects totalling not less than 240 credit points.

### Credit

2. Credit for (1) A candidate may be granted credit:
   (a) for up to 160 credit points in recognition of subjects completed at another tertiary institution which have not been previously counted towards a completed award;
   (b) for as many credit points as the Faculty Board determines in recognition of subjects completed in the University which have not been previously counted towards a completed award, and
   (c) for up to 110 credit points in recognition of subjects completed in previous courses and previously counted towards a completed award.

3. Except with the permission of the Dean, candidates granted credit in recognition of work completed at another institution must complete at least 40 credit points at the 300 level and 110 credit points at the 400 level.

### Bachelor of Science (Professional)

**Award Abbreviation: BSc(Prof)** Available to continuing students only.

The Bachelor of Science (Professional) is offered by the Faculty of Science and Mathematics. The degree is designed to equip its graduates with the knowledge and skills to function effectively in the commercial world in addition to being highly skilled in their chosen discipline. Studies in Management, Law, Finance, Computing and Mathematics are combined with Science studies, including one major study chosen from Biological Sciences, Chemistry, Geography, Geology, Mathematics or Physics. It is expected that graduates will find employment in industry, government, education and academia.

The disciplines of Biological Sciences, Chemistry, Geography, Mathematics and Physics are all accredited by the appropriate national professional societies which offer membership to graduates according to qualifications and experience.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website at [http://www.newcastle.edu.au/services/ousr/aau/tafecred/index.htm](http://www.newcastle.edu.au/services/ousr/aau/tafecred/index.htm)

### Course Structure

The degree is undertaken over four years of full-time study (or part-time equivalent) and requires students to pass subjects totalling 320 credit points. The fourth year is designed as an Honours year.

In first year, full-time students select four subjects from two Science disciplines and undertake Mathematics, Management and Computing for Science. One discipline chosen from Biological Sciences, Chemistry, Geography, Geology, Mathematics or Physics is taken as a Major Sequence of study and carried to Honours level (Year 4). A Major Sequence of study requires 20 credit points at 100 level, 30 credit points at 200 level and 40 credit points at 300 level.

In Years two and three, Science or Science and Mathematics studies are complemented by subjects in Management, Philosophy, Finance and Law. The fourth year is devoted to study at the Honours level in the chosen discipline and includes the possibility of industry placement. Students are expected to maintain superior grades in the first three years of the course in order to undertake the Honours components. Alternatively students can qualify for a Bachelor of Science degree at the end of their third year.

### Sample Program

#### Year 1 (80 credit points)

- **Compulsory Subjects**
  - Introduction to Management and Organisational Behaviour
  - Mathematics (two subjects)
- **Computing for Science**
- **100 Level Science Subjects**
- 40 credit points selected from 2 of the following:
  - Biological Sciences
  - Chemistry
  - Geology
  - Physics

#### Year 2 (80 credit points)

- **Compulsory Subjects**
- **Organisational Structures and Design**
- **Technology and Human Values**
- **200 Level Science Subjects**
- 60 credit points, including at least 30 credit points in one discipline, selected from:
  - Biological Sciences
  - Chemistry
  - Geology
  - Geology
List of Approved Subjects

For a complete list of subjects see the Approved Group A Subjects for the Bachelor of Science (Callaghan Campus).

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACFL1330</td>
<td>Accounting and Finance: A User's Perspective</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BRH1111</td>
<td>Introduction to Management and Organisational Behaviour</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>BRH1228</td>
<td>Organisational Structures and Design</td>
<td>10</td>
<td>1</td>
<td>BRH111 or BRH111</td>
</tr>
<tr>
<td>LAW101</td>
<td>Foundations of Law</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PHIL311</td>
<td>Technology and Human Values</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SCIM101</td>
<td>Computing for Science</td>
<td>10</td>
<td>1, 2</td>
<td></td>
</tr>
</tbody>
</table>

Schedule

Qualification for the Degree

1. To qualify for admission to the degree, candidates shall complete the requirements of the course program determined by the Faculty Board which shall consist of subjects totalling no less than 320 credit points and include:
   - (a) at least 80 credit points from 100 level subjects;
   - (b) at least 60 credit points from 200 level subjects;
   - (c) at least 60 credit points from 300 level subjects; and
   - (d) at least 60 credit points from 400 level subjects.

Credit

2. (1) Credit may be granted in a maximum of 210 credit points except that:
   - (a) no more than 150 credit points may be gained for work counted towards a completed award; and
   - (b) the faculty Board may grant such additional credit as it determines to be appropriate for students completing in the University which have not been counted towards a completed award.

   (2) Except with the permission of the Dean, candidates granted credit in recognition of work completed elsewhere must complete at least 60 credit points at 400 level in the University.

Grading of the Degree

3. (1) The degree shall be conferred as an ordinary degree except that, where the performance of a candidate has reached a standard determined by the faculty Board to be of sufficient merit the degree shall be conferred with honours.

   (2) There shall be three classes of honours: Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

Time Requirements

4. (1) Except with the permission of the faculty Board, a candidate shall complete requirements for the award within nine years of study.

   (2) A candidate granted credit shall be deemed to have commenced study from a date determined by the Dean.

   * There shall be no further intake into the Bachelor of Science (Professional) program from Semester 2, 2000
the course as described above. Allocation of available places is based on performance in the best six PSYC 300 level subjects with a credit grade or higher.

PSYC301 Research Project Part B 20 1, 2
Note: PSYC409A & PSYC409B must be taken in one calendar year.

Year 4 Honours Program - limited places available to selected students. Application to the Faculty, who have completed all requirements of the first three years of the course as described above. Allocation of available places is based on performance in the best six PSYC 300 level subjects with a credit grade or higher.

PSYC411 Psychology Honours 411 20 1, 2
PSYC412 Psychology Honours 412 20 1, 2
PSYC421 Psychology Honours 421 20 1, 2
PSYC422 Psychology Honours 422 20 1, 2

* Science Elective Requirements

The 110 credit points of Science Electives (50 in Year 1, 40 in Year 2 and 20 in Year 3) must include 70 credit points at 100 level selected from each of the two Bachelor of Science Group A disciplines (total of 40 credit points). The other 10 credit points may be selected from subjects listed in any Bachelor of Science Group A Discipline (including additional Psychology subjects). Alternatively, the 70 credit points may be selected from Bachelor of Science Group B subjects.

Note that no more than 70 credit points of Science Electives may be taken at 100 level and that core must be taken to choose a program that meets all assumed knowledge requirements.

Bachelor of Science Group A Disciplines: Biological Sciences, Chemistry, Geography, Geology, Mathematics, Physics and Psychology.

Bachelor of Science Group B Subjects: include subjects, other than Group A subjects, offered by the Faculty of Science and Mathematics, as well as subjects offered by other Faculties. Subjects and disciplines are referred to in the Bachelor of Science (Callaghan Campus) list of Approved Group B subjects, having had PSYC103 is not approved for the course as it contains overlaps with both PSYC101 and PSYC102.

Schedule

Interpretation

1. In this schedule, "discipline" means a branch of learning recognised as such by the Faculty Board.

Qualification for the Degree

2. To qualify for admission to the degree, a candidate shall pass subjects totalling 320 credit points from the list of Approved Subjects and comprising:

(a) at least 60 and not more than 100 credit points from 100 level subjects of which:
(b) 20 credit points shall be from Group A subjects; and
(c) 40 credit points shall be comprised of 20 credit points from each of two Bachelor of Science Group A disciplines;
(d) at least 60 credit points from 200 level subjects of which 40 credit points shall be from Group A subjects;
(e) at least 60 credit points from 300 level Group A subjects; and
(f) at least 60 credit points from 400 level Group A subjects.

Grading of the Degree

3. (1) The Degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the Degree shall be conferred with Honours.

4. There shall be three classes of Honours, namely Class I, Class II and Class III. Class II shall have two divisions, namely Division I and Division 2.

Credit

4. (1) A candidate may be granted credit:

(a) for up to 210 credit points in recognition of subjects completed at another higher education institution which have not been previously counted towards an award;
(b) for as many credit points as the Faculty Board determines in recognition of subjects completed in the University which have not been previously counted towards an award; and
(c) for up to 150 credit points in recognition of subjects completed and previously counted towards an award.

5. Except with the permission of the Dean, candidates granted credit in recognition of work completed at another institution must complete at least 40 credit points at the 300 level at the University.

Time Requirements

5. (1) Except with the permission of the Faculty Board, a candidate shall complete the course within eleven years of study, from commencement.

6. A candidate who has been granted credit shall be deemed to have commenced the course from a date determined by the Dean at which time credit is granted.

Termination of Candidature

7. The candidature of a person shall be terminated permanently if that person counts subjects passed as a candidate for the degree for a period before the date of application for admission to the degree of Bachelor of Science.
Bachelor of Science/Bachelor of Computer Science - Physics Major

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH121</td>
<td>Advanced Mathematics 121</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH151</td>
<td>Discrete Mathematics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG111</td>
<td>Introduction to Software Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG112</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG114</td>
<td>The Online Society</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH122</td>
<td>Advanced Mathematics 122</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>PHYS114</td>
<td>Advanced Physics for Scientists and Engineers</td>
<td>10</td>
<td>2</td>
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</tbody>
</table>

Year 2 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENG211</td>
<td>Software Analysis and Verification</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>COMP223</td>
<td>Introduction to Algorithms</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH201</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MATH220</td>
<td>Analytic Methods 1</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>SENG212</td>
<td>Software Process</td>
<td>10</td>
<td>2</td>
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<tr>
<td>ECH170</td>
<td>Computer Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH220</td>
<td>Ecological Modelling</td>
<td>5</td>
<td>2</td>
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<tr>
<td>MATH203</td>
<td>Ordinary Differential Equations</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 200 level subjects</td>
<td></td>
<td>20</td>
<td>1, 2</td>
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</table>

Year 3 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP222</td>
<td>Theory of Computation</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 200 level subjects</td>
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<tr>
<td>MATH 300 level subjects</td>
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<td>30</td>
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</tr>
<tr>
<td>300 level Computer Science Directed Electives</td>
<td></td>
<td>30</td>
<td>1, 2</td>
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</table>

Year 4 (80 credit points)

<table>
<thead>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 300 level subjects</td>
<td></td>
<td>40</td>
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<tr>
<td>PHYS or MATH 300 level subjects</td>
<td></td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>300 level Computer Science Directed Electives</td>
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</table>

Total of 330 Credit Points

Bachelor of Science/Bachelor of Computer Science - Psychology Major

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENG111</td>
<td>Introduction to Software Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH121</td>
<td>Advanced Mathematics 121</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH151</td>
<td>Discrete Mathematics</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>PSYC101</td>
<td>Psychology Introduction</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG112</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG114</td>
<td>The Online Society</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH122</td>
<td>Advanced Mathematics 122</td>
<td>10</td>
<td>2</td>
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<tr>
<td>PSYC102</td>
<td>Psychology Introduction</td>
<td>10</td>
<td>2</td>
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</table>

Year 2 (80 credit points)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP223</td>
<td>Introduction to Algorithms</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SENG211</td>
<td>Software Analysis and Verification</td>
<td>10</td>
<td>1</td>
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<tr>
<td>PSYC207</td>
<td>Experimental Methodology</td>
<td>10</td>
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<td>ECH170</td>
<td>Computer Engineering</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SENG212</td>
<td>Software Process</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 200 level subjects</td>
<td></td>
<td>30</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Bachelor of Science/Bachelor of Laws

Award Abbreviations: BSoc, LLB

The Bachelor of Science/Bachelor of Laws combined degree program is offered by the Faculty of Science and Mathematics and the Faculty of Laws. Within the combined degree program, students undertake 250 credit points of LLB subjects for the Bachelor of Laws, and a total of 150 credit points of Bachelor of Science subjects.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/oura/tafecred/index.htm

Program Structure

The Bachelor of Science/Bachelor of Laws combined degree program is undertaken over five years of full-time study, to satisfy current degree requirements, candidates must undertake the following program comprising 150 credit points of Bachelor of Science Group A subjects and 250 credit points of LLB subjects.

Bachelor of Science

<table>
<thead>
<tr>
<th>Year</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>40</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>3</td>
<td>50</td>
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Bachelor of Laws Subjects

<table>
<thead>
<tr>
<th>Year</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>1</td>
<td>40 credit points at 100 level: comprising two subject &quot;pairs&quot;</td>
</tr>
<tr>
<td>2</td>
<td>20 credit points at 100 level: comprising one subject &quot;pair&quot;; 40 credit points at 200 level (including 30 credit points in a single discipline already studied in Year 1)</td>
</tr>
<tr>
<td>3</td>
<td>50 credit points at 300 level: (including 40 credit points in the single discipline already studied as a major in Year 2)</td>
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<tr>
<td>4</td>
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Year 1

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>LLB103A Legal System &amp; Method - Part A</td>
<td>10</td>
</tr>
<tr>
<td>LLB103B Legal System &amp; Method - Part B</td>
<td>10</td>
</tr>
<tr>
<td>LLB104A Criminal Law &amp; Procedure - Part A</td>
<td>10</td>
</tr>
<tr>
<td>LLB104B Criminal Law &amp; Procedure - Part B</td>
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Year 2

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>LLB203A Torts - Part A</td>
<td>10</td>
</tr>
<tr>
<td>LLB203B Torts - Part B</td>
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Year 3

<table>
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<tr>
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<tbody>
<tr>
<td>LLB303A Contracts - Part A</td>
<td>10</td>
</tr>
<tr>
<td>LLB303B Contracts - Part B</td>
<td>10</td>
</tr>
<tr>
<td>LLB302 Property</td>
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</table>

Undergraduate Handbook 2001
Within the 150 credit points of Bachelor of Science Group A subjects, a sequence of at least 20 credit points at the 100 level, 30 credit points at the 200 level and 40 credit points at the 300 level must be chosen from a single discipline. Group A subjects can be selected from the disciplines of Biological Sciences, Chemistry, Geography, Geology, Mathematics, Physics and Psychology. Credit towards the Bachelor of Science degree is granted for the 90 credit points of Bachelor of Laws subjects completed in the first three years, leaving the total of Bachelor of Science credit points to 240. Thus, on successful completion of the first three years of the combined degree program outlined above, students will have met the requirements for a Bachelor of Science award.

The final two years of the combined degree program comprise study in LLB subjects only.

For further information on degree requirements and Approved Subjects, refer to the course entries for the Bachelor of Science and the Bachelor of Laws. Students should also consult the Faculty of Science and Mathematics Student Guide for further information on subject selection and faculty policies.

Students in combined degree programs belong to two faculties and are advised to consult the two faculty offices regarding their academic program.

Bachelor of Social Science (Callaghan Campus)

Award Abbreviation: BSoSc

The Bachelor of Social Science is offered by the Faculty of Arts and Social Science. This is a generalist degree that offers students the opportunity to focus on the techniques of analysis and theory offered by the social sciences. Social Science is concerned with theories about life cycles, gender, class, race, work, social justice and social organization.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/student/tafecredit/index.htm

Program Requirements

1. Qualification for the Bachelor of Social Science award requires completion of 240 credit points which comprises:

- Not more than 80 credit points at 100 level;
- A minimum of 180 credit points of subjects approved as Group A Subjects by the Faculty Board of which 40 credit points must be at 300 level and 40 credit points must be at 200 or 300 level.

2. Group A subject areas: (see Approved List of Subjects for full details)

   - Aboriginal Studies
   - Australian Studies (available at Central Coast Campus only)
   - Cultural Studies
   - Early Childhood Studies
   - Economics
   - Education
   - Geography
   - History
   - Leisure and Tourism Studies
   - Linguistics
   - Politics
   - Sociology and Anthropology
   - Statistics
   - Welfare Policy

3. Not more than 60 credit points of Group B Subjects, which can be selected from other available undergraduate subjects, either from within the faculty of Arts and Social Science or from elsewhere.

4. It is usual practice for a student to select four subject areas at 100 level and to select major areas of study once an interest and skill has been realised.

5. While 100 level subjects are restricted to a maximum of 80 credit points, there is no maximum number of credit points for subjects at 200 or 300 level.

6. Full-time enrolment (80 credit points per year) will enable course completion in three years. Students may enrol in less than 80 credit points per year, and completion will take proportionately longer.

A student who has completed more than 40 credit points at the 100 level and who transfers to the combined Social Science/Laws program may count up to 100 credit points at the 100 level.

Many disciplines (subject areas) within the faculty of Arts and Social Science require students to complete a prescribed sequence of subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline's requirements. Such requirements are mandatory when they lead to professional accreditation or when they involve the progressive acquisition of knowledge and/or skills. Before enrolling, students must consult the Department responsible for the discipline to ensure that they are satisfying its requirements. This is of particular significance when intending to pursue a major area of study in a particular discipline.
### Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge
--- | --- | --- | --- | ---
AHIS02 | The Roman Republic: Greece to Carthage | 10 | 2 | 20 credit points at a level in Ancient History or History.
AHIS05 | Democratic Athens in Growth and Crisis | 20 | N/A 2001 | 40 credit points at any level including 20 credit points in Ancient History or History.

### AHIS12
Augustus and the Emergence of the Roman Empire | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.

### AHIS13
Roman Britain and Anglo-Saxon England | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.

### AHIS14
Philip II and Alexander the Great | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.

### AHIS15
Sparta | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.

### AHIS17
Medieval and the Early Modern | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.

### AHIS18
Romans and the Celts | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.

### AHIS19
Greek Society | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.

### AHIS35
Ancient History | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.

### AHIS59
Magic and Witchcraft in Antiquity | 10 | N/A 2001 | 20 credit points at any level in Ancient History or History.
<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit</th>
<th>Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
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<tbody>
<tr>
<td><strong>Sociology and Anthropology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCA101</td>
<td>Introduction to Sociology and Social Anthropology</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>SOCA102</td>
<td>Introduction to Sociology and Social Anthropology</td>
<td>10</td>
<td>2</td>
<td>SOCA101 or equivalent</td>
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<tr>
<td>SOCA110</td>
<td>Communication and Culture</td>
<td>10</td>
<td>2</td>
<td>20 credit points SOCA or CMNS 100 level subjects or equivalent</td>
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<tr>
<td>SOCA120</td>
<td>Health Sociology</td>
<td>10</td>
<td>2</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
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<tr>
<td>SOCA201</td>
<td>History of Sociological Thought</td>
<td>10</td>
<td>2</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
<td></td>
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<tr>
<td>SOCA203</td>
<td>Sociology of Work</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
<td></td>
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<tr>
<td>SOCA204</td>
<td>Theory and Practice of Social Research</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
<td></td>
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<tr>
<td>SOCA205</td>
<td>Anthropological Analysis</td>
<td>10</td>
<td>1</td>
<td>SOCA101 or equivalent</td>
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<tr>
<td>SOCA208</td>
<td>Media and Society</td>
<td>10</td>
<td>2</td>
<td>10 credit points Group A 100 level subjects or equivalent</td>
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<tr>
<td>SOCA209</td>
<td>Modernities and Masculinities</td>
<td>10</td>
<td>2</td>
<td>20 credit points SOCA101 or SOCA102 or GEND101</td>
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<tr>
<td>SOCA210</td>
<td>Australian Families</td>
<td>10</td>
<td>2</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
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<tr>
<td>SOCA212</td>
<td>Introductory Aboriginal Studies: Culture and Politics</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
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<tr>
<td>SOCA214</td>
<td>The Politics of Racialized Boundaries</td>
<td>10</td>
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<tr>
<td>SOCA215</td>
<td>Islam in Modern Society</td>
<td>10</td>
<td>2</td>
<td>10 credit points SOCA or GEN100 100 level subjects or equivalent</td>
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<tr>
<td>SOCA216</td>
<td>Youth Culture</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA101, SOCA102 or equivalent</td>
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<tr>
<td>SOCA217</td>
<td>Ethnicity and Migration Studies</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
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<tr>
<td>SOCA218</td>
<td>A Sociology of Death and Dying</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA101 or equivalent</td>
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<tr>
<td>SOCA219</td>
<td>Sociology of Health and Illness</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA101 or equivalent</td>
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<tr>
<td>SOCA221</td>
<td>Sociology of Community</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA101 or equivalent</td>
<td></td>
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<tr>
<td>SOCA222</td>
<td>Anthropology of Symbol, Myth and Ritual</td>
<td>10</td>
<td>1</td>
<td>SOCA101 or equivalent</td>
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<tr>
<td>SOCA223</td>
<td>The Culture of Sexual Minorities</td>
<td>N/A 2001</td>
<td>1</td>
<td>Either SOCA101, SOCA102, GEND202 or equivalent</td>
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<tr>
<td>SOCA224</td>
<td>Democracy, Politics and Power</td>
<td>N/A 2001</td>
<td>1</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
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<tr>
<td>SOCA225</td>
<td>Crime and Society</td>
<td>10</td>
<td>1</td>
<td>SOCA101 and either SOCA102, GEND202 or equivalent</td>
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<tr>
<td>SOCA227</td>
<td>Rock Music and Youth Culture</td>
<td>N/A 2001</td>
<td>1</td>
<td>20 credit points SOCA or CMNS 100 level subjects or equivalent</td>
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<tr>
<td>SOCA230</td>
<td>Narrative and Culture</td>
<td>10</td>
<td>1</td>
<td>20 credit points SOCA 100 level subjects or equivalent</td>
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<tr>
<td>SOCA231</td>
<td>Indigenous People of the Contemporary World</td>
<td>10</td>
<td>1</td>
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<td>SOCA232</td>
<td>The Sociology of Food</td>
<td>10</td>
<td>1</td>
<td>Either SOCA101, SOCA102 or SOCA103 or equivalent</td>
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<tr>
<td>SOCA233</td>
<td>Aboriginal Australians: Policy and Politics</td>
<td>10</td>
<td>2</td>
<td>SOCA101, SOCA102 or SOCA103 or equivalent</td>
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<tr>
<td>SOCA236</td>
<td>The Sociology of Sex</td>
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<td>SOCA237</td>
<td>Ethnography in the City: Culture and Community</td>
<td>10</td>
<td>2</td>
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<tr>
<td>SOCA250</td>
<td>The State, The Church and Health Policy</td>
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<td>Either SOCA101, SOCA102 or SOCA120 or equivalent</td>
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<tr>
<td>SOCA252</td>
<td>Religion and Politics in Contemporary Society</td>
<td>10</td>
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<td>SOCA260</td>
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<tr>
<td>SOCA281</td>
<td>Social Policy and the Welfare State</td>
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<td>20 credit points SOCA 100 level subjects or equivalent</td>
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<tr>
<td>SOCA282</td>
<td>India and Bangladesh: Society and Culture</td>
<td>N/A 2001</td>
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<tr>
<td>SOCA283</td>
<td>Identity and Culture</td>
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<td>At least one of SOCA101, SOCA102, SOCA103, GEN102, HIST101 or equivalent</td>
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<tr>
<td>ISW201</td>
<td>Life Writing in Modern Asia</td>
<td>10</td>
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<td>ISW202</td>
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<td>2</td>
<td>40 credit points at 100 level</td>
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<tr>
<td>SOCA303</td>
<td>Women, ecology and Development</td>
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<tr>
<td>SOCA304</td>
<td>The Anthropology of Buddhist Societies</td>
<td>20</td>
<td>N/A 2001</td>
<td>20 credit points SOCA 200 or 300 level subjects or equivalent</td>
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<tr>
<td>SOCA305</td>
<td>Discourses of Race, Resistance and Identity</td>
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<tr>
<td>SOCA306</td>
<td>Environmental and Society</td>
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<tr>
<td>SOCA310</td>
<td>Post Modernity and New Social Movements</td>
<td>20</td>
<td>N/A 2001</td>
<td>20 credit points SOCA100 and 200 level subjects or equivalent</td>
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<tr>
<td>SOCA311</td>
<td>Reproduction of Culture in Ethnographic Film</td>
<td>20</td>
<td>N/A 2001</td>
<td>20 credit points SOCA 200 level subjects or equivalent</td>
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**Statistics**

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<tr>
<td>STAT101</td>
<td>Introductory Statistics</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>STAT105</td>
<td>Statistics for Business</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>STAT117</td>
<td>Statistics for Scientists</td>
<td>10</td>
<td>2</td>
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<tr>
<td>STAT201</td>
<td>Fundamentals of Statistics</td>
<td>10</td>
<td>1</td>
<td>STAT107 or STAT101 or STAT105 or MATH112 or MATH122</td>
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<tr>
<td>STAT202</td>
<td>Data Analysis: Regression and Forecasting</td>
<td>10</td>
<td>2</td>
<td>STAT201</td>
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<tr>
<td>STAT237</td>
<td>Decision Analysis</td>
<td>10</td>
<td>N/A 2001</td>
<td>STAT107 or STAT105 or MATH112 or MATH122</td>
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<tr>
<td>STAT238</td>
<td>Generalised Linear Models</td>
<td>10</td>
<td>2</td>
<td>STAT201 or STAT202</td>
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<tr>
<td>STAT239</td>
<td>Time Series Analysis</td>
<td>10</td>
<td>N/A 2001</td>
<td>STAT201 or STAT202</td>
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<tr>
<td>STAT240</td>
<td>Total Quality Management</td>
<td>10</td>
<td>2</td>
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<tr>
<td>STAT241</td>
<td>Data Mining</td>
<td>N/A 2001</td>
<td>1</td>
<td>STAT201, STAT202</td>
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<tr>
<td>STAT242</td>
<td>Surveys and Experiments</td>
<td>N/A 2001</td>
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<td>STAT201, STAT202</td>
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**Warfare Policy**

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<th>Semester</th>
<th>Assumed Knowledge</th>
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<td>PWAP101</td>
<td>Australian Welfare Policy</td>
<td>10</td>
<td>2</td>
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<td>PWAP102</td>
<td>Social Issues in Social Policy</td>
<td>10</td>
<td>2</td>
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<tr>
<td>PWAP201</td>
<td>Youth Studies</td>
<td>10</td>
<td>2</td>
<td>30 credit points from WPAP101, HIST101, SCL101, SOCA102, CMNS101</td>
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<tr>
<td>PWAP202</td>
<td>Human Rights, Advocacy and Social Change</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>PWAP205</td>
<td>Welfare Sector Management</td>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PWAP211</td>
<td>Community Processes and Social Change</td>
<td>10</td>
<td>2</td>
<td></td>
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</tr>
<tr>
<td>PWAP211</td>
<td>Social Research for Social Policy</td>
<td>10</td>
<td>1</td>
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</table>
Bachelor of Social Science (Central Coast Campus)

Award Abbreviations: BSoSc.

The Bachelor of Social Science is offered at the Central Coast Campus. It is a generalist degree providing students with the opportunity to focus on the techniques of analysis and theory offered by the social sciences. Social Science is concerned with theories about life-cycle, gender, class, race, work, social justice and social organisation.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/aus/aus/tafecredit/index.htm.

Program Requirements

1. Program Requirements Qualification for the Bachelor of Social Science award requires completion of a program of subjects approved by the Faculty Board totalling not less than 240 credit points which comprises:

(a) Not more than 80 credit points at 100 level;
(b) A minimum of 180 credit points of subjects approved as Group A subjects by the Faculty Board of which 40 credit points must be at 300 level and 40 credit points must be at 200 or 300 level.

Group A subject areas: (see List of Approved Subjects for full details)

Australian Studies
Politics
Early Childhood Studies
Sociology and Anthropology
History
Welfare Policy

(c) Not more than 60 credit points of Group B subjects, which can be selected from other available undergraduate subjects, either from within the Central Coast Campus or from elsewhere.

2. It is usual practice for a student to select four subject areas at 100 level and to select major areas of study once an interest and skill has been realised.

3. While 100 level studies are restricted to a maximum of 80 credit points, there is no maximum number of credit points for studies at 200 or 300 level.

4. Full-time enrolment (80 credit points per year) will enable course completion in three years. Students may enrol in less than 80 credit points per year, and completion will take proportionately longer.

* Other subjects may be approved by consulting the Head of School.

Approved Group A Subjects offered at Central Coast Campus

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<tr>
<td>HSS111</td>
<td>Australian Government and Politics</td>
<td>10</td>
<td>N/A.2001</td>
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<tr>
<td>UHUM101</td>
<td>Aboriginal Art, and the Asia-Pacific</td>
<td>10</td>
<td>2</td>
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<tr>
<td>HUM101</td>
<td>Australian Studies: Global/Local</td>
<td>10</td>
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<tr>
<td>HUM151</td>
<td>English and Australian Fiction</td>
<td>10</td>
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<td>HUM170</td>
<td>Australia and the World</td>
<td>10</td>
<td>2</td>
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<tr>
<td>HUM173</td>
<td>The Australian Experience</td>
<td>10</td>
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Early Childhood Studies

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**Schedule**

**Qualification for the Degree**

1. To qualify for admission to the degree, a candidate shall pass subjects approved by the Faculty Board totaling not less than 240 credit points.

**Credit**

2. A candidate may be granted credit towards satisfaction of degree requirements:

   a. in up to 160 credit points in recognition of subjects passed at this University or another tertiary institution which have not been previously counted towards a completed award; or
   b. in up to 160 credit points in recognition of subjects passed and previously counted in satisfaction of the requirements of a completed award; and
   c. in exceptional circumstances, in as many additional credit points as the Faculty Board or its nominee may determine.
### Bachelor of Social Science (Honours)

**Award Abbreviation:** BSocSc(Hons)

The Bachelor of Social Science (Honours) degree is offered by the Faculty of Arts and Social Sciences. Applicants for the Honours program must have completed the requirements for admission to the degree of Bachelor of Social Science or equivalent.

Honours programs are available in the following disciplines (subject areas): Cultural Studies, Economics, Education, Geography, History, Leisure and Tourism Studies, Linguistics, Politics, Sociology and Anthropology, Statistics, Welfare Policy.

#### Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</tbody>
</table>

### Schedule

#### Admission to Candidature

1. A candidate may undertake the Honours Degree in either one or two disciplines.
2. In order to be admitted to candidature for the Degree in a single discipline, an applicant shall:
   - (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Social Science of the University or to any other degree approved by the Faculty Board; and
   - (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department responsible for the discipline.

3. In order to be admitted to candidature for the Degree in two disciplines, an applicant shall:
   - (a) have completed the requirements for admission to the Ordinary Degree of Bachelor of Social Science of the University or to any other degree approved by the Faculty Board; and
   - (b) have completed any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Heads of the Departments responsible for the discipline.

#### Qualification for Admission to the Degree

3. To qualify for admission to the Degree a candidate shall pass a program of subjects approved by the Faculty Board totalling 80 credit points at the 400 level.

#### Classes of Honours

4. There shall be three classes of Honours namely Class I, Class II and Class III. Class II shall have two divisions, namely Division 1 and Division 2.

#### Time Requirements

5. Except with the permission of the Faculty Board, a candidate shall complete the course in not less than one year and not more than two years of study.

### Bachelor of Social Science (Recreation and Tourism)

**Award Abbreviation:** BSocSc(RecTour)

The Bachelor of Social Science (Recreation and Tourism) is offered by the Faculty of Arts and Social Science and is designed to provide students with the knowledge and skills necessary to pursue professional careers in the growing leisure industries — including tourism, recreation, media and the arts. The degree program combines social science and professional studies subjects with a range of elective options, enabling students to define specialised programs of study suitable to their interests and career aspirations.

#### TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website at http://www.newcastle.edu.au/services/subject/tafe.shtml or athttp://www.newcastle.edu.au/services/subject/tafe.shtml.

#### Program Requirements

1. In order to qualify for the award, a student must pass 240 credit points comprising:
   - (a) 120 credit points of compulsory subjects as set out in the list of Approved Subjects; and
   - (b) 120 credit points of elective subjects, with a maximum of 60 credit points at 100 level and at least 20 credit points at 300 level, chosen from other subjects offered by the Department of Leisure and Tourism Studies or from other available undergraduate subjects.

2. A student may count a maximum of 100 credit points at 100 level.

3. Full-time enrolment (80 credit points per year) will enable course completion in three years. Students may enrol in less than 80 credit points per year and completion will take proportionately longer.
Students are required to complete 120 credit points of electives. Before enrolling, students must consult the Faculty Board to ensure that they are satisfying the requirements. This is of particular significance when intending to pursue a major area of study in a particular discipline.

### Approved Subjects

**Subject Code** | **Subject Name** | **Credit Points** | **Semester** | **Assumed Knowledge/Course Requirement**
--- | --- | --- | --- | ---
LEIS111 | Leisure and Society | 10 | 1 | 
LEIS112 | Leisure Organisation in Australia | 10 | 2 | LEIS111 or LEIS113
LEIS113 | Leisure Behaviour and Development | 10 | 1 | 
LEIS114 | Leisure Management Practice | 10 | 2 | Electives

**Year 2**

LEIS221 | Leisure, Society and Contemporary Culture | 10 | 1 | LEIS111 or LEIS115 or SGLA101
LEIS222 | Leisure Interactions and Identity | 10 | 2 | LEIS116 or PSY112
LEIS223 | Methods in Leisure Research | 10 | 1 | LEIS114 and enrolled in B Soc Sc (Recreation & Tourism)
LEIS224 | Leisure Management Practice II | 10 | 2 | LEIS114 and enrolled in B Soc Sc (Recreation & Tourism)

**Year 3**

LEIS332 | Leisure, Politics and the City | 10 | 1 | 20 credit points at 200 level in LEIS subjects
LEIS333 | Critical Perspectives in Leisure | 10 | 2 | 20 credit points at 200 level in LEIS subjects
LEIS335 | Leisure Management Practice III | 10 | 1 | LEIS224 and enrolled in B Soc Sc (Recreation & Tourism)
LEIS336 | Applied Leisure Project | 10 | 2 | LEIS335 and enrolled in B Soc Sc (Recreation & Tourism)

**Subject Code** | **Subject Name** | **Credit Points** | **Semester** | **Assumed Knowledge/Course Requirement**
--- | --- | --- | --- | ---
LEIS105 | Media, Culture and Society | 10 | 1 | 
LEIS106 | Introduction to Tourism | 10 | 2 | LEIS105
LEIS121 | Media Structures and Practices | 10 | 2 | LEIS105
LEIS231 | Outdoor Recreation and Tourism Management | 10 | 1 | LEIS, 100 and 200 level equivalents.
LEIS232 | Cultural Dimensions of Tourism | 10 | 1 | LEIS, 100 and 200 level equivalents.
LEIS233 | Leisure, Tourism and Quality of Life | 10 | 1 | LEIS, 100 and 200 level equivalents.
LEIS241 | Gender, Sexuality and Leisure | 10 | 2 | LEIS105 or SGLA101 or LEIS105 or GEN101
LEIS331 | Sport and Australian Society | 10 | 2 | LEIS, 100 and 200 level equivalents.
LEIS332 | Leisure, Tourism and Environmental Issues | 10 | 2 | LEIS, 100 and 200 level equivalents.
LEIS335 | Tourism Policy and Planning | 10 | 1 | LEIS, 100 and 200 level equivalents.
LEIS334 | Popular Culture and Society | 10 | 1 | LEIS, 100 and 200 level equivalents.
LEIS335 | Technology and Social Change | 10 | 2 | LEIS, 100 and 200 level equivalents.
LEIS336 | Directed Reading | 10 | 1 | LEIS, 100 and 200 level equivalents.
LEIS337 | Cultural Policy and the Arts | 10 | 2 | LEIS336
LEIS338 | Leisure Challenges and Changing Life-worlds | 10 | 2 | LEIS, 100 and 200 level equivalents.
LEIS341 | Professional Practice in Outdoor Recreation | 10 | 1 | LEIS, 100 and 200 level equivalents.
LEIS343 | Professional Issues in Community Recreation | 10 | 1 | LEIS, 100 and 200 level equivalents.
CURT301 | Cultural Studies: Interdisciplinary Issues | 10 | 1 | LEIS105 and SGLA101
CURT301 | Cultural Studies: Identity, Difference and the Global | 10 | 2 | LEIS105, SGLA101 and CURT301

**Bachelor of Social Science/Bachelor of Laws**

**Award Abbreviations:** BSoSoc, LLB

The Bachelor of Social Science/Bachelor of Laws combined degree program is offered by the Faculty of Arts and Social Sciences and the Faculty of Law. Within the combined degree program, students undertake 250 credit points of LLB subjects for the Bachelor of Laws, and a total of 150 credit points of Bachelor of Social Science subjects.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/studentinfo/tafelaw/index.htm

**Program Structure**

The Bachelor of Social Science/Bachelor of Laws combined degree program is undertaken over five years of full-time study. To satisfy current degree requirements, candidates must undertake the following program comprising 150 credit points of Bachelor of Social Science Group A subjects and 250 credit points of LLB subjects.

<table>
<thead>
<tr>
<th>Bachelor of Social Science</th>
<th>Bachelor of Laws Subjects</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td>40 credit points at 100 level in two Group A subject areas</td>
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<tr>
<td>40 credit points at 100 level:</td>
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<tr>
<td>LLB103A</td>
<td>Legal System &amp; Method - Part A</td>
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<tr>
<td>LLB103B</td>
<td>Legal System &amp; Method - Part B</td>
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<tr>
<td>LLB104A</td>
<td>Criminal Law &amp; Procedure - Part A</td>
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<td>Criminal Law &amp; Procedure - Part B</td>
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<tr>
<td>20 credit points at 200 level:</td>
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<tr>
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<td>Torts - Part B</td>
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<td><strong>Year 5</strong></td>
<td>80 credit points</td>
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</table>

The final two years of the combined degree program comprise study in only law subjects, because on successful completion of the first three years of the combined degree you will be eligible to graduate with a Bachelor of Social Science degree.
Bachelor of Social Science/Bachelor of Social Work

Award Abbreviations: BSoSc, BSW for continuing students only.

The Bachelor of Social Science/Bachelor of Social Work combined degree program is offered by the Faculty of Arts and Social Science. The program comprises a total of 420 credit points over the two degrees - 280 credit points in the Social Work degree and 140 in the Social Science degree, undertaken over the period of full-time study or part-time equivalent. An applicant for this combined degree program must have gained entry to the Bachelor of Social Work degree and have achieved a Credit grade average in subjects undertaken in that degree. An applicant is eligible to apply to transfer to the combined degree program when at least 40 credit points of the following compulsory subjects from the first year of the Bachelor of Social Work degree course have been completed: SOCA101, SOCA102, PSYC101, PSYC102, SWRK101A, SWRK101B.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/ou/sau/tafe/grad/index.htm

Course Structure

Bachelor of Social Science

To meet the current requirements for the Bachelor of Social Science component of the program, a student must complete a minimum of 140 credit points from the following Group A subject areas: Aboriginal Studies, Cultural Studies, Early Childhood Studies, Economics, Education, Geography, History, Leisure and Tourism Studies, Linguistics, Politics, Sociology and Anthropology, Statistics, Welfare Policy. One or more major areas of study at the 200 and 300 levels must be completed. This involves completion of 40 credit points in Group A at the 200 or 300 level and 40 credit points in Group A at the 300 level, not necessarily in the same subject area. For details of approved subjects, refer to the Bachelor of Social Science course description.

Bachelor of Social Work

A student is required to complete all compulsory subjects for the Social Work degree as listed below. A maximum of 120 credit points is permitted at the 100 level for subjects taken in the combined degree program.

As combined degree programs can be complex, students are advised to consult the Faculty of Arts and Social Science Office regarding their academic program.

Students may graduate with either award separately when the requirements for a major award have been met.

Many disciplines (subject areas) within the Faculty of Arts and Social Science require students to complete a prescribed sequence of subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline's requirements. Such requirements are mandatory when they lead to professional accreditation or when they involve the progressive acquisition of knowledge and/or skills. Before enrolling, students must consult the Department responsible for the discipline to ensure that they are satisfying its requirements. This is of particular significance when intending to pursue a major area of study in a particular discipline.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
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<th>Semester</th>
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<td>Field Education 1- Part B</td>
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<td>YR3 3</td>
<td>Social Work Theory and Practice 1- Part A</td>
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<td>YR3 4</td>
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## Bachelor of Social Science/Bachelor of Speech Pathology

**Award Abbreviations:** BScSoSc, BSPh

The Bachelor of Social Science/Bachelor of Speech Pathology combined degree program is offered by the Faculty of Arts and Social Science. The program comprises a total of 410 credit points over the two degrees - 260 or 290 credit points in the Speech Pathology degree and 120 or 110 in the Social Science degree, undertaken over five years of full-time study or part-time equivalent.

An applicant for this combined degree program must have gained entry to the Bachelor of Speech Pathology degree and have achieved a Credit grade average in subjects undertaken in that degree at a Credit grade average of at least 40 credit points from the first year of the Bachelor of Speech Pathology degree course, including SPTH111 and SPTH112, must have been completed before an applicant is eligible to transfer to the combined degree.

### TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website at [http://www.newcastle.edu.au/services/oustr/aau/tafecred/index.htm](http://www.newcastle.edu.au/services/oustr/aau/tafecred/index.htm).

#### Course Structure

**Bachelor of Social Science**

To meet the current requirements for the Bachelor of Social Science component of the program, a student must complete a minimum of 120 credit points (depending on whether SPTH112 is chosen in the Bachelor of Speech Pathology component), from the following Group A subject areas: Aboriginal Studies, Cultural Studies, Early Childhood Studies, Economics, Education, Geography, History, Leisure and Tourism Studies, Linguistics, Politics, Sociology and Anthropology, Statistics, Welfare Policy.

One or more major areas of study at the 200 and 300 levels must be completed. This involves completion of 40 credit points in Group A at the 200 or 300 level and 40 credit points in Group A at the 300 level, not necessarily in the same subject area.

For details on Approved Subjects, refer to the Bachelor of Social Science course description.

**Bachelor of Speech Pathology**

A student is required to complete the compulsory subjects approved for the Bachelor of Speech Pathology degree as listed below:

- A maximum of 120 credit points is permitted at the 100 level for subjects taken in the combined degree program.
- As combined degree programs can be complex, students are advised to consult the Faculty of Arts and Social Science Office regarding their academic program.
- Students may graduate with either award separately when the requirements for a single award have been met.
- Many disciplines (subject area) within the Faculty of Arts and Social Science require students to complete a prescribed sequence of subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline’s requirements. Such requirements are mandatory when they lead to professional accreditation or when they involve the progressive acquisition of knowledge and skills. Before enrolling, students must consult the Department responsible for the discipline to ensure that they meet the requirements of the discipline. This is of particular significance when intending to pursue a major area of study in a particular discipline.

### Subject Code Table

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
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<th>Concurrent Assumed Knowledge (CK)</th>
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<td>SPTH111</td>
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<td>SPTH112</td>
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<td>LING101</td>
<td>Foundations of Language</td>
<td>10</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LING102</td>
<td>Language Structure and Meaning</td>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC101</td>
<td>Psychology Introduction 1</td>
<td>10</td>
<td>1</td>
<td>PSYC101</td>
<td></td>
</tr>
<tr>
<td>PSYC102</td>
<td>Psychology Introduction 2</td>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPTH100</td>
<td>Clinical Practice</td>
<td>10</td>
<td>1, 2</td>
<td>SPTH112, SPTH221</td>
<td></td>
</tr>
<tr>
<td>SPTH221</td>
<td>Speech Pathology in Education and Community Settings 1</td>
<td>10</td>
<td>1</td>
<td>SPTH112</td>
<td></td>
</tr>
<tr>
<td>SPTH222</td>
<td>Speech Pathology in Education and Community Settings 2</td>
<td>10</td>
<td>2</td>
<td>SPTH221</td>
<td></td>
</tr>
<tr>
<td>ANAT102</td>
<td>Neuroscience</td>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSI103</td>
<td>Physics</td>
<td>10</td>
<td>1</td>
<td>UNIS112</td>
<td></td>
</tr>
<tr>
<td>PSYC103</td>
<td>Structure of Psychology</td>
<td>10</td>
<td>2</td>
<td>UNIS112</td>
<td></td>
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<tr>
<td>PSYC104</td>
<td>Basic Processes</td>
<td>10</td>
<td>2</td>
<td>PSYC102, PSYC207</td>
<td></td>
</tr>
<tr>
<td>PSYC207</td>
<td>Experimental Methodology</td>
<td>10</td>
<td>1</td>
<td>PSYC102, SPTH111, SPTH112</td>
<td></td>
</tr>
</tbody>
</table>

#### Year 3

| SPTH112       | Speech Pathology 3b             | 10            | 2        | SPTH222            | |
| SPTH113       | Clinical Practice               | 10            | 1, 2     | All 200 level SPTH subjects | CK: SPTH311 |
| SPTH222       | Speech Pathology in Medical Settings 1 | 10 | 1 | SPTH222 |
| SPTH223       | Speech Pathology in Medical Settings 2 | 10 | 2 | SPTH222 |
| SPTH114       | Language and Cognition          | 10            | 2        | LUNG111            | |
| PSYC109       | Personality and Social Processes| 10            | 1        | PSYC102, PSYC207   | |
| PSYC110       | Developmental Psychology        | 10            | 1        | N/A 2001           | PSYC102, PSYC207 |

#### Year 4

| SPTH401       | Speech Pathology 4               | 10            | 1, 2     | All 300 level SPTH subjects |
| SPTH402       | Speech Pathology 5               | 10            | 1, 2     | All 300 level SPTH subjects |
| SPTH403       | Clinical Practice (Part 1)       | 20            | 1, 2     | All 300 level SPTH subjects |
| SPTH404       | Clinical Practice (Part 2)       | 20            | 1, 2     | All 300 level SPTH subjects |
| SPTH405       | Research Review                  | 10            | 1        | All 300 level SPTH subjects |
| SPTH406       | Speech Pathology Research Thesis | 10            | 1, 2     | PSYC102, SPTH221    |

### Program Requirements

1. In order to qualify for the award, a student must pass 320 credit points in the prescribed sequence consisting of:
   - (a) 80 credit points of compulsory subjects as set out in the list of Approved Subjects;
   - (b) 40 credit points of electives selected from other available undergraduate subjects; 20 credit points of these electives may be selected at 200 level, and the other 20 credit points must be at 300 level or higher.
   - 2. Except with the approval of the Head of Department of Social Work, the course is only available on a full-time basis.
   - 3. Except with the approval of the Head of Department of Social Work, a student must complete all compulsory first year subjects before proceeding to the second year of the course.
   - 4. A student enrolled in the Bachelor of Social Work degree program as any combined degree program of which it is part, must complete all compulsory Social Work (SWRK) subjects at each level of the course program proceeding to Social Work (SWRK) compulsory subjects at a higher level.
   - 5. Except with the approval of the Head of Department of Social Work, a student shall not be permitted to withdraw from the Field Education subjects later than two working days prior to the commencement of the placement.

The degree may be conferred with Honours where a student has reached a standard of sufficient merit.

## Bachelor of Social Work

**Award Abbreviation:** BS

The Bachelor of Social Work course is offered by the Faculty of Arts and Social Science. It is designed to provide students with the knowledge, skills and theory necessary for work as a professional Social Worker. The course is offered as a four year full-time degree, in second, third and fourth year, Social Work subjects are taken as an integrated unit rather than as separate subjects. Students work in small groups on a graded set of experience-based learning units and undertake three placements of 50 days each, one in each of the second, third and fourth year of the course. Two of these placements are generally in the Hunter Region and one is organised in native regional areas, other states or countries. Students may join the Australian Association of Social Workers (AASW) as student members and, on completion of the course, as full members.

### TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website at [http://www.newcastle.edu.au/services/oustr/aau/tafecred/index.htm](http://www.newcastle.edu.au/services/oustr/aau/tafecred/index.htm).

### Program Requirements

1. In order to qualify for the award, a student must pass 320 credit points in the prescribed sequence consisting of:
   - (a) 80 credit points of compulsory subjects as set out in the list of Approved Subjects;
   - (b) 40 credit points of electives selected from other available undergraduate subjects; 20 credit points of these electives may be selected at 200 level, and the other 20 credit points must be at 300 level or higher.
   - 2. Except with the approval of the Head of Department of Social Work, the course is only available on a full-time basis.
   - 3. Except with the approval of the Head of Department of Social Work, a student must complete all compulsory first year subjects before proceeding to the second year of the course.
   - 4. A student enrolled in the Bachelor of Social Work degree program as any combined degree program of which it is part, must complete all compulsory Social Work (SWRK) subjects at each level of the course program proceeding to Social Work (SWRK) compulsory subjects at a higher level.
   - 5. Except with the approval of the Head of Department of Social Work, a student shall not be permitted to withdraw from the Field Education subjects later than two working days prior to the commencement of the placement.

The degree may be conferred with Honours where a student has reached a standard of sufficient merit.
Many disciplines (subject areas) within the Faculty of Arts and Social Science require students to complete a prescribed sequence of subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline's requirements. Such requirements are mandatory when they lead to professional accreditation or when they involve the progressive acquisition of knowledge and/or skills. Before enroling, students must consult the Department responsible for the discipline to ensure that they are satisfying its requirements. This is of particular significance when intending to pursue a major area of study in a particular discipline.

**Course Program**

The subjects below are to be undertaken in the following sequence:

Note: SWRK subjects can only be selected by students enrolled in the Bachelor of Social Work degree.

### Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge Concurrent | Assumed Knowledge (CK)/Course Requirement
--- | --- | --- | --- | --- | ---
**Compulsory subjects**

**Year 1**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent</th>
<th>Assumed Knowledge (CK)/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC101</td>
<td>Psychology Introduction 1</td>
<td>10</td>
<td>1</td>
<td>PSYC101</td>
<td></td>
</tr>
<tr>
<td>PSYC102</td>
<td>Psychology Introduction 2</td>
<td>10</td>
<td>2</td>
<td>PSYC101</td>
<td></td>
</tr>
<tr>
<td>SOCA101</td>
<td>Introduction to Sociology &amp; Social Anthropology</td>
<td>10</td>
<td>1</td>
<td>SOCA101 or equivalent</td>
<td></td>
</tr>
<tr>
<td>SWRK101A</td>
<td>Introduction to Social Work Part A</td>
<td>10</td>
<td>1</td>
<td>Enrolled in Bachelors Work</td>
<td>SWRK101A, SWRK101B must be taken in one calendar year</td>
</tr>
<tr>
<td>SWRK101B</td>
<td>Introduction to Social Work Part B</td>
<td>10</td>
<td>2</td>
<td>SWRK101A Note: SWRK101A &amp; SWRK101B must be taken in one calendar year</td>
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<tr>
<td></td>
<td>100 level Elective subjects</td>
<td>20</td>
<td>1, 2</td>
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**Year 2**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent</th>
<th>Assumed Knowledge (CK)/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL35B</td>
<td>Ethical Issues</td>
<td>10</td>
<td>2</td>
<td>PSYC101, PSYC102, SWRK101A, SWRK101B, SOCA101, SOCA102, SWRK120A Note: SWRK203A &amp; SWRK203B must be taken in one calendar year</td>
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</tr>
<tr>
<td>SWRK201B</td>
<td>Field Education 1 Part B</td>
<td>10</td>
<td>2</td>
<td>SWRK203A, C5SWRK203B Note: SWRK203A &amp; SWRK203B must be taken in one calendar year</td>
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</tr>
<tr>
<td>SWRK210A</td>
<td>Social Work Theory and Practice 1 Part A</td>
<td>10</td>
<td>2</td>
<td>SWRK101, PSYC101, SWRK101B, SOCA101, SOCA102 Note: SWRK210A &amp; SWRK210B must be taken in one calendar year</td>
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</tr>
<tr>
<td>SWRK210B</td>
<td>Social Work Theory and Practice 1 Part B</td>
<td>10</td>
<td>2</td>
<td>SWRK210A Note: SWRK210A &amp; SWRK210B must be taken in one calendar year</td>
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</table>

**Directed Electives - select one of the following:**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent</th>
<th>Assumed Knowledge (CK)/Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABR1111</td>
<td>Introduction to Aboriginal Studies</td>
<td>10</td>
<td>1, 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST101</td>
<td>Foundations of Australian Society</td>
<td>10</td>
<td>1</td>
<td></td>
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</tr>
<tr>
<td>HIST201</td>
<td>Australia in the Twentieth Century</td>
<td>10</td>
<td>2</td>
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**Year 3**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent</th>
<th>Assumed Knowledge (CK)/Course Requirement</th>
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</thead>
<tbody>
<tr>
<td>LAW101</td>
<td>Foundations of Law</td>
<td>10</td>
<td>1</td>
<td></td>
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<tr>
<td>LAW242</td>
<td>Child Law</td>
<td>10</td>
<td>2</td>
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<tr>
<td>SPSW307</td>
<td>Regional Social Policy and Planning</td>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWRK303A</td>
<td>Field Education 2 Part A</td>
<td>10</td>
<td>1</td>
<td>SWRK203A, SWRK203B Note: SWRK203A &amp; SWRK203B must be taken in one calendar year</td>
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<tr>
<td>SWRK303B</td>
<td>Field Education 2 Part B</td>
<td>10</td>
<td>2</td>
<td>SWRK203A, C5SWRK203B Note: SWRK203A &amp; SWRK203B must be taken in one calendar year</td>
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</tr>
<tr>
<td>SWRK310A</td>
<td>Social Work Theory and Practice 2 Part A</td>
<td>10</td>
<td>2</td>
<td>SWRK210A, SWRK210B Note: SWRK210A &amp; SWRK210B must be taken in one calendar year</td>
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</tr>
<tr>
<td>SWRK310B</td>
<td>Social Work Theory and Practice 2 Part B</td>
<td>10</td>
<td>2</td>
<td>SWRK210A Note: SWRK210A &amp; SWRK210B must be taken in one calendar year</td>
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</tr>
</tbody>
</table>

### Transition Arrangements

This course program has been amended with effect from the commencement of the year 2000 academic year. All students enrolled in this course, or any combined degree program of which it is part, retain full credit for previous studies in this course but are required to meet the requirements of the new Course Program.

The following equivalence between previous and new subjects apply:

<table>
<thead>
<tr>
<th>Previous Subjects</th>
<th>New Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK203, SWRK210</td>
<td>SWRK203</td>
</tr>
<tr>
<td>SWRK201, SWRK202</td>
<td>SWRK210</td>
</tr>
<tr>
<td>700 level SOCA Subject</td>
<td>SWRK310</td>
</tr>
<tr>
<td>SWRK301, SWRK302</td>
<td>SWRK310, SWRK302</td>
</tr>
<tr>
<td>SWRK201, SWRK202</td>
<td>SWRK310</td>
</tr>
<tr>
<td>SWRK301, SWRK302</td>
<td>SWRK201, SWRK202</td>
</tr>
</tbody>
</table>

### Schedule

**Qualification for the Degree**

1. To qualify for admission to the Degree a candidate shall pass the program of subjects approved by the Faculty Board consisting not less than 320 credit points.

**Grading of the Degree**

2. (1) The degree shall be conferred as a Bachelor of Arts except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.

3. (2) There shall be two classes of Honours, namely Class I, Class II. Class I shall have two distinctions, namely Distinction 1 and Distinction 2.

Credit

3. A candidate may be granted credit towards satisfaction of degree requirements:

(a) in up to 240 credit points of recognised subjects passed at this University or another tertiary institution which have not previously counted towards a completed award; or

(b) in up to 150 credit points in recognition of subjects passed and previously counted in satisfaction of the requirements of a completed award; and

(c) in exceptional circumstances, in as many additional credit points as the Faculty Board, or its nominee, may determine.

### Bachelor of Speech Pathology

**Award Abbreviation:** BSPath

The Bachelor of Speech Pathology is offered by the Faculty of Arts and Social Science. This course provides students with the knowledge and skills necessary to practice as Speech Pathologists. Speech Pathology subjects deal with all acquired and developmental human communication disorders; child language disorders, phonological and articulatory disorders, stuttering, voice disorders, communication disorders of neurological origin, and audiology. Subjects are delivered using a variety of methods: lectures, tutorials, laboratories and independent learning projects. The course includes a substantial clinical practicum which provides students with the full range of clinical experience required by the Speech Pathology Association of Australia. Clinical placement is arranged in the Hunter area, Central Coast, Sydney, and rural areas. Block placement of three weeks' duration takes place during the December - February break.

Graduates are eligible for membership of The Speech Pathology Association of Australia.
Program Requirements.

1. In order to qualify for the award, a student must pass 320 credit points comprising:
   (a) a minimum of 280 credit points of compulsory subjects as set out in the list of Approved Subjects.
   (b) up to 40 credit points of electives selected from other available undergraduate subjects, either from within the Faculty of Arts and Social Science or elsewhere.

2. Full-time enrolment (80 credit points per year) will enable completion in four years. Students may enrol in less than 80 credit points per year, and completion will take proportionately longer.

Many disciplines (subject areas) within the Faculty of Arts and Social Science require students to complete a prescribed sequence of subjects. This means that students must enrol in subjects in a particular order to satisfy the discipline’s requirements. Such requirements are mandatory when they lead to professional accreditation or when they involve the progressive acquisition of knowledge and/or skills. Before enrolling, students must consult the Department responsible for the discipline to ensure that they are satisfying its requirements. This is of particular significance when intending to pursue a major area of study in a particular discipline.

Approved Subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge Concurrent</th>
<th>Assumed Knowledge</th>
<th>Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTH111</td>
<td>Speech Pathology Introduction 1</td>
<td>10</td>
<td>1</td>
<td>Enrolled in SPH111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPTH112</td>
<td>Speech Pathology Introduction 2</td>
<td>10</td>
<td>2</td>
<td>SPTH111</td>
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<tr>
<td>HUSB101</td>
<td>Human Biosciences 1A</td>
<td>10</td>
<td>1</td>
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<tr>
<td>ANAT103</td>
<td>Anatomy for Speech Pathology</td>
<td>10</td>
<td>2</td>
<td>HUSB101</td>
<td></td>
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</tr>
<tr>
<td>LING111</td>
<td>Foundations of Language</td>
<td>10</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>LING112</td>
<td>Language Structure and Meaning</td>
<td>10</td>
<td>2</td>
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<td></td>
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<td>PSYC101</td>
<td>Psychology Introduction 1</td>
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<td>PSYC102</td>
<td>Psychology Introduction 2</td>
<td>10</td>
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<td>PSYC101</td>
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<tr>
<td>SPTH221</td>
<td>Speech Pathology in Education and Community 1</td>
<td>10</td>
<td>1</td>
<td>SPTH112</td>
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</tr>
<tr>
<td>SPTH222</td>
<td>Speech Pathology in Education and Community 2</td>
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<tr>
<td>HUPH291</td>
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<tr>
<td>LING134</td>
<td>Phonetics</td>
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<td>LING111</td>
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<tr>
<td>LING135</td>
<td>Structure of English</td>
<td>10</td>
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<td>LING112</td>
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<tr>
<td>PSYC102</td>
<td>Basic Processes</td>
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<tr>
<td>PSYC201</td>
<td>Experimental Methodology</td>
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<td>PSYC102, SPTH111, SPTH112</td>
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<td>SPTH302</td>
<td>Speech Pathology 3b</td>
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<td>2</td>
<td>SPTH222</td>
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<tr>
<td>SPTH308</td>
<td>Clinical Practice</td>
<td>10</td>
<td>2</td>
<td>SPTH222</td>
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<tr>
<td>SPTH311</td>
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<td>SPTH222</td>
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<tr>
<td>SPTH312</td>
<td>Speech Pathology in Medical Settings 2</td>
<td>10</td>
<td>2</td>
<td>SPTH222</td>
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<tr>
<td>LING111</td>
<td>Language and Cognition</td>
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<tr>
<td>PSYC209</td>
<td>Personality and Social Processes</td>
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<td>PSYC102, PSYC207</td>
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<tr>
<td>or</td>
<td>Developmental Psychology</td>
<td>10</td>
<td>1, 2</td>
<td>N/A 2001</td>
<td>PSYC102, PSYC207</td>
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<tr>
<td>Electives</td>
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<tr>
<td>SPTH401</td>
<td>Speech Pathology 4</td>
<td>10</td>
<td>1, 2</td>
<td>All 300 level SPTH subjects</td>
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<td>SPTH405</td>
<td>Speech Pathology 5</td>
<td>10</td>
<td>1, 2</td>
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<tr>
<td>SPTH408</td>
<td>Clinical Practice (Part 1)</td>
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<tr>
<td>SPTH409</td>
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<td>10</td>
<td>1, 2</td>
<td>All 300 level SPTH subjects</td>
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<td></td>
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</tbody>
</table>

Bachelor of Surveying

Award Abbreviation: BSurv

The Bachelor of Surveying is offered by the Faculty of Engineering. This diverse course prepares students for careers related to land information management and the use of the latest technology, including satellites for positioning and remote sensing. It is the only course in Australia to emphasise both urban engineering studies and cadastral surveying. There are also close links with other areas of engineering such as civil, mining and environmental.

TAFe Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/ourtaf/tafear/index.htm

Course Structure

The surveying course is a four year program comprising 320 credit points. There is a strong emphasis on practical laboratory and field exercises throughout the course which complement theoretical studies. Students have access to modern electronic surveying equipment. In their final year of study students will have the opportunity to undertake an industry related project.

Schedule

Qualification for the Degree

1. To qualify for admission to the degree a candidate shall pass the program of subjects approved by the faculty Board totalling not less than 320 credit points.

Grading of the Degree

2. (1) The degree shall be conferred as an ordinary degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree shall be conferred with Honours.

Credit

A candidate may be granted credit towards satisfaction of degree requirements:
(a) in up to 240 credit points in recognition of subjects passed at this University or another tertiary institution which have not been previously counted towards a completed award; or
(b) in up to 150 credit points in recognition of subjects passed and previously counted in satisfaction of the requirements of a completed award; and
(c) in exceptional circumstances, in as many additional credit points as the Faculty Board, or its nominee, may determine.

Undergraduate Handbook 2004
[Text content...]

**Transition Arrangements - Full-Time and Part-Time**

The Course Program has been amended with effect from the commencement of the 2001 academic year. All students enrolled in this course or any combined degree program of which it forms part, are required to meet the requirements of the new Course Program.

For the purposes of transition to the new Course Program, the following transition program will apply for students who have completed years 1, 2 or 3 of the program in the year 2000.

**Transition program for students entering Years 2, 3 and 4 in 2001**

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester 1</th>
<th>CIVL228</th>
<th>MATH102/103</th>
<th>SURV218</th>
<th>LAW093</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Semester 2</td>
<td>CIVL271</td>
<td>CIVL231</td>
<td>SURV213</td>
<td>SURV234</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>CIVL333</td>
<td>ECON332</td>
<td>SURV361</td>
<td>SURV335</td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>CIVL345</td>
<td>SURV363</td>
<td>SURV36/40</td>
<td>SURV351</td>
</tr>
<tr>
<td>Year 4</td>
<td>Semester 1</td>
<td>SURV411</td>
<td>SURV441</td>
<td>SURV420</td>
<td>SURV485</td>
</tr>
<tr>
<td></td>
<td>Semester 1</td>
<td>SURV472</td>
<td>SURV473</td>
<td>CIVL345</td>
<td>SURV485</td>
</tr>
</tbody>
</table>

**Transition program for students entering Years 3 and 4 in 2002**

| Year 3 | Semester 1 | CIVL333 | ECON332 | SURV361 | SURV335 |
|        | Semester 2 | CIVL345 | SURV363 | SURV36/40 | SURV351 |
| Year 4 | Semester 1 | SURV411 | SURV441 | SURV420 | SURV485 |
|        | Semester 1 | SURV472 | SURV473 | Elective | SURV485 |

In order to provide for students on non-standard programs and for exceptional circumstances in transition, the Dean may determine the transition arrangements to be followed.

**Schedule**

Qualification for the Award

1. To qualify for admission for the degree a candidate shall complete, to the satisfaction of the Faculty Board, a course program consisting of subjects totalling not less than 320 credit points approved by the Faculty Board on the recommendation of the Head of the Department of Civil, Surveying and Environmental Engineering, including:

   (a) at least 80 credit points from 200 level subjects;
   (b) at least 60 credit points from 300 level subjects; and
   (c) at least 100 credit points from 400 level subjects of which at least 40 credit points must be from 400 level subjects.

Grading of the Degree

1. The degree shall be conferred as an Ordinary Degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree may be conferred with Honours.

   (2) These shall be two classes of Honours, namely Class 1 and Class 2. Class 1 shall have two subdivisions, namely Division 1 and Division 2.

Enrolment

3. A candidate may not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board.

Credit

4. Credit may be granted for up to 160 credit points except that a candidate may be granted such credit as the Faculty Board determines for subjects completed in the University which have not already been counted towards an award.
Bachelor of Surveying/Bachelor of Arts

Award Abbreviations: BSurv, BA

The Bachelor of Surveying/Bachelor of Arts combined degree program is offered by the Faculty of Engineering and the Faculty of Arts and Social Science. This program provides students with an opportunity to undertake concurrent study and complete two degrees in general, this combined degree program offers greater breadth and depth of learning, enhancing the academic and professional qualifications gained in each separate degree. At the same time, this program recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements, please see the University's website, at https://www.newcastle.edu.au/services/our/au/tafecredit/index.htm

Program Structure

The surveying and arts combined degree program is a five-year program comprising 410 credit points. To meet the current requirements of the engineering degree you must complete the program of study below. Within this program students have the opportunity to undertake an industry-related project in the final year. For details, refer to the Bachelor of Surveying entry.

To meet the current requirements for the Bachelor of Arts component you must complete a minimum of 100 credit points of Arts Group A subjects, including a Major Sequence of study. To complete a Major Sequence of study you must complete at least 30 credit points at 200 level and 40 credit points at 300 level, in one area of study chosen from Group A disciplines. Major areas of study available are: Aboriginal Studies, Classics, Classical Civilisation, Cultural Studies, Greek, Latin, Sanskrit, Drama, Economics, English, History, Studies, Gender Studies, Geography, History, Leisure and Tourism Studies, Linguistics, Mathematics, Modern Languages, Philosophy, Politics, Psychology, Religious Studies, Sociology and Anthropology. In choosing your Major Sequence of study you are advised to check any assumed knowledge at 100 level. For details, refer to the Bachelor of Arts entry.

The following program of study has been agreed between the Faculty of Engineering and the Faculty of Arts and Social Science based on 2001 course requirements. It may be varied as a result of future changes in the requirements of the course, or by agreement of the Deans of both of the Faculties concerned.

Students enrolled in a combined degree program are advised to consult the relevant Faculty Offices regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL112</td>
<td>Mechanics and Materials</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH111</td>
<td>Mathematics 111 *</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SURV111</td>
<td>Surveying 1</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>CIVL132</td>
<td>Environmental Fluid Mechanics</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MATH112</td>
<td>Mathematics 112 *</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>MCH11B</td>
<td>Engineering Computing 1</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>SURV112</td>
<td>Surveying 2</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>100 level Arts Group A subjects</td>
<td>10</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

* MATH121 and MATH122 may replace MATH111 and MATH112.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS101W</td>
<td>Introductory Physics for Engineers</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>and Scientists **</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH201</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>MATH202</td>
<td>Ordinary Differential Equations</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>SURV128</td>
<td>Electronic Surveying</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>CIVL271</td>
<td>Transportation Engineering</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SURV213</td>
<td>Surveying 3</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>SURV234</td>
<td>Surveying 4</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>100 level Arts Group A subjects</td>
<td>10</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td>200 level Arts Group A subjects</td>
<td>10</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

** PHYS113 may replace PHYS111. * Students with good academic standing in HSC Physics, may replace PHYS111 with CHEM101 with permission of Head of Department Civil, Surveying and Environmental Engineering.

Bachelor of Surveying/Bachelor of Engineering (Environmental)

Award Abbreviations: BSurv, BE

The Bachelor of Surveying/Bachelor of Engineering (Environmental) combined degree program is offered by the Faculty of Engineering. This program provides students with an opportunity to undertake concurrent study and complete two awards. In general, it offers greater breadth of learning, enhancing the academic and professional qualities gained in each degree. At the same time, it recognizes the increasing need for students to graduate with multidisciplinary skills.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements, please see the University's website, at https://www.newcastle.edu.au/services/our/au/tafecredit/index.htm

Course Structure

The surveying and environmental engineering combined degree program comprises 410 credit points. Students complete 12 weeks of industry experience throughout the course and have the opportunity to undertake an industry-related project in their final year of study in the engineering degree. For more details, refer to course entries for the Bachelor of Surveying and Bachelor of Engineering (Environmental).

The following program of study is based on 2001 course requirements. It may be varied as a result of future changes to course requirements. Students enrolled in this combined degree program are advised to consult the Faculty Office regarding their academic program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM112</td>
<td>Mechanics and Materials</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>MATH111</td>
<td>Mathematics 111 *</td>
<td>10</td>
<td>1</td>
</tr>
</tbody>
</table>
A five day live-in Survey Camp is a compulsory part of SURV393.

A five day live-in Survey Camp is a compulsory part of SURV420.

CIVL112 Mathematics 112

MECH108 Engineering Computing 1

SURV392 Surveying 2

SURV216 Electronic Surveying

SURV228 Geomatics 1

Biological Calculus

Ordinary Differential Equations 1

Technology and Human Values

SURV213 Surveying 3

SURV234 Survey Computing

CIVL231 Fluid Mechanics

CHEM102 Introductory Chemistry II

Year 2 (80 credit points)

SURV216 Electronic Surveying

SURV228 Geomatics 1

MATH201 Multivariable Calculus

PHIL391 Technology and Human Values

SURV213 Surveying 3

SURV234 Survey Computing

CIVL231 Fluid Mechanics

CHEM102 Introductory Chemistry II

Year 3 (80 credit points)

SURV216 Electronic Surveying

SURV228 Geomatics 1

MATH201 Multivariable Calculus

PHIL391 Technology and Human Values

SURV213 Surveying 3

SURV234 Survey Computing

CIVL231 Fluid Mechanics

CHEM102 Introductory Chemistry II

Year 4 (80 credit points)

CHEM204 Environmental Chemistry

CIVL234 Contaminant Hydrology

ENVR201 Environmental Legislation and Planning

CIVL334 Hydrology

CIVL345 Water Engineering

CIVL341 Hydrological Modelling

CIVL231 Transportation Engineering

CIVL342 Land and Water

Year 5 (80 credit points)

CIVL359 Environmental Engineering Design 1

SURV420 Survey Design and Management

SURV441 Astronomy and Satellite Positioning

CIVL400 Environmental Engineering Design 2

SURV473 Town Planning

SURV472 Land Valuation

CIVL353 Project and Asset Management

SURV484 Project

Total of 410 Credit Points

* MATH211 and MATH212 may replace MATH111 and MATH112

** no change

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**Transition Arrangements - Full-Time and Part-Time**

The Course Program has been amended with effect from the commencement of the 2001 academic year. Students affected by changes:
**Primary Teacher Key Learning Areas**

**KLA: English**
- ENGL107: Representing the Child
- ENGL211: Creative Writing
- ENGL373: Poetry in Education
- LING128: Language in Education
- LING335: Structure of Language

**KLA: Human Society and its Environment**
- GEOG101: Australian Politics and Government
- SOCA263: Identity and Culture
- SOCA327: Environment and Society

**KLA: Mathematics**
- MATH291: Basic Mathematics
- MATH292: Mathematical Applications in Science and Technology

**KLA: Creative Arts (Fine Art*)**
- ART102: 2D Art: Image Media and Technology
- ART131: 3D Art: Process and Practice

**KLA: Physical Education**
- BEHM230: Personal Development and Health Education Issues in the Primary School
- HUM232: Movement and Dance in the Primary School
- HUM233: Introduction to Physical Education

**KLA: Science and Technology**
- SCIT101: Computing for Science
- SCIT204: Practical Applications in Science and Technology

**KLA: Creative Arts (Music)**
- MUSI200: Basic Music Technology
- MUSI202: Introduction to Keyboard

**KLA: Personal Development, Health and Physical Education**
- BEHM230: Personal Development and Health Education Issues in the Primary School
- HUM232: Movement and Dance in the Primary School

**KLA: Health Education**
- HUM231: Introduction to Nutrition

**KLA: Science (Music)**
- BIOL102: Introduction to Biology
- ENGL104: Environmental Issues and their Management

**KLA: Languages Other Than English (Austalian)***
- LING207: Australian 1
- LING208: Australian 2

**KLA: Languages Other Than English (French)*
- FR110: Elementary French 1
- FR120: Elementary French 2

**KLA: Languages Other Than English (German)*
- GER110: Elementary German 1
- GER120: Elementary German 2

**KLA: Languages Other Than English (Japanese)*
- JPN111: Elementary Japanese 1
- JPN112: Intermediate Japanese 2

**KLA: Mathematics**
- MATH391: A Practical Approach to Elementary Mathematics
- MATH492: Problem Solving

**KLA: Creative Arts (Drama)**
- ART122: 2-D Art: Image Media and Technology

**KLA: Practical Preparation**
- EDTE312: Special Education

**KLA: Information Technology**
- EDCI307: Practicum in Inclusive Settings

**KLA: Professional Preparation**
- EDTE312: Special Education

**KLA: Special Education**
- EDTE314: Introduction to Special Education

**Special Education Option**

**Bachelor of Teaching/Bachelor of Arts - Primary (Callaghan Campus only)**

This option is open to students at the 300/400 level completing the Primary specialisation, subject to selection procedures.

Students enrolling in the 300/400 level Special Education option must complete EDTE312 Special Education prior to commencing other subjects in the program.
2002 Secondary Specialisations (Callaghan)*

- EDTE433 Professional Preparation 4
- EDSSY411 Literacies Across the Secondary Curriculum
- EDSSY414 Aboriginal Education
- EDSSY422 Contexts of Teaching 2
- EDEN424 Teaching and Learning in English 4A
- EDEN425 Teaching and Learning in English 4B
- EDSSY423 Teaching and Learning in Social Sciences
- EDTE421 Learners & the Learning Process 2
- EDTE111 Literacies Across the Secondary Curriculum
- EDTE131, EDTE132, EDTE231 Teaching and Learning in Social Sciences
- EDTE311, EDTE321, EDTE431 Teaching and Learning in Social Sciences 3
- EDTE312, EDTE433 Teaching and Learning in Social Sciences 4
- ECON110 Microeconomics 1
- ECON111 Macroeconomics 1
- GEOG101 Introduction to Physical Geography
- GEOG102 Introduction to Human Geography
- HIST101 Foundations of Australian Society

Social Sciences Teaching - Course Structure

This specialisation prepares students for teaching within the HSIE (Human Society and its Environment) key learning area. There is a wide range of subjects offered, including: Aboriginal Studies, Ancient History, Asian Studies, Business Studies, Commerce, Economics, General Studies, Geography, Legal Studies, Modern History, Office Skills, Retail Studies, Religion, and Society and Culture.

In the Education component, subjects are offered under four strands: Teaching and Learning (including Special Education), Specialised Teaching Methods, Professional experience, and Research. The final year of the course consists entirely of teaching studies and professional preparation culminating in an internship.

For the Arts component, students are advised to complete the major study in Geography, Modern History or Economics. The Social Science electives may be in one of these areas or in one of the other HSIE subject areas listed above. Students are required to complete subjects in either a 90 credit point major and 50 credit point Social Science elective or a 70 credit point major, 40 credit point minor, 40 credit points of one Social Science elective and 30 credit points of another Social Science elective.

Professional Experience and Internship

The professional experience and internship subjects for each discipline area in all Double Degree programs must be completed in the prescribed sequence, with at least one professional experience subject relating to the specialisation of the Internship.

The Internship in the Double Degree programs can only be undertaken on the successful completion of 270 credit points of Social Science elective.

Special Education Option

Bachelor of Teaching/Bachelor of Arts: Specialisations (Callaghan Campus only)

This option is open to students at the 300/400 level completing a secondary specialisation, subject to selection procedures.

Students enrolling at the 300/400 level Special Education option must complete EDTE312 Special Education prior to commencing other subjects in the program.

Approved Program for Students commencing in 2001 - Social Sciences Teaching

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 - 2001</td>
<td>Learners and the Learning Process 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EDTE111</td>
<td>Professional Preparation 1 A</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EDTE131</td>
<td>Professional Preparation 1 B</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>EDTE121</td>
<td>Contexts of Teaching 1</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics 1</td>
<td>10</td>
<td>162</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>162</td>
<td></td>
</tr>
<tr>
<td>GEOG101</td>
<td>Introduction to Physical Geography</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GEOG102</td>
<td>Introduction to Human Geography</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HIST101</td>
<td>Foundations of Australian Society</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Year 2 - 2002</td>
<td>Professional Experience 1</td>
<td>10</td>
<td>1</td>
<td>EDTE132</td>
</tr>
<tr>
<td>EDTE211</td>
<td>Teaching and Learning in English 1</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EDTE221</td>
<td>Teaching and Learning in Social Sciences 2</td>
<td>5</td>
<td>2</td>
<td>EDTE312, EDTE313</td>
</tr>
<tr>
<td>EDTE231</td>
<td>Teaching and Learning in Social Sciences 3</td>
<td>5</td>
<td>1</td>
<td>EDTE312, EDTE313, EDTE321</td>
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<tr>
<td>EDTE312</td>
<td>Teaching and Learning in Social Sciences 4</td>
<td>5</td>
<td>1</td>
<td>EDTE312, EDTE313, EDTE321</td>
</tr>
<tr>
<td>EDTE313</td>
<td>Social Science subjects - major study</td>
<td>5</td>
<td>1</td>
<td>EDTE312, EDTE313, EDTE321</td>
</tr>
<tr>
<td>EDTE314</td>
<td>Social Science subjects - major study</td>
<td>5</td>
<td>1</td>
<td>EDTE312, EDTE313, EDTE321</td>
</tr>
<tr>
<td>Year 3 - 2003</td>
<td>Professional Experience 2</td>
<td>10</td>
<td>1</td>
<td>EDTE321</td>
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<tr>
<td>EDTE322</td>
<td>Special Education</td>
<td>10</td>
<td>1</td>
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<tr>
<td>EDTE323</td>
<td>Teaching and Learning in Social Sciences 5</td>
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<td>EDTE324</td>
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<td>EDTE325</td>
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<td>EDTE313, EDTE321, EDTE331</td>
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<td>Year 4 - 2004</td>
<td>Professional Experience 3</td>
<td>10</td>
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<td>EDTE332</td>
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<tr>
<td>EDTE411</td>
<td>Literacies Across the Secondary Curriculum</td>
<td>10</td>
<td>1</td>
<td>EDTE331</td>
</tr>
<tr>
<td>ECON110</td>
<td>Microeconomics 1</td>
<td>10</td>
<td>162</td>
<td></td>
</tr>
<tr>
<td>ECON111</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>162</td>
<td></td>
</tr>
<tr>
<td>GEOG101</td>
<td>Introduction to Physical Geography</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GEOG102</td>
<td>Introduction to Human Geography</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HIST101</td>
<td>Foundations of Australian Society</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Special Education Option

Bachelor of Teaching/Bachelor of Arts: Specialisations (Callaghan Campus only)

This option is open to students at the 300/400 level completing a secondary specialisation, subject to selection procedures.

Students enrolling at the 300/400 level Special Education option must complete EDTE312 Special Education prior to commencing other subjects in the program.

Schedule Interpretation

1. In this Schedule, unless the context or subject matter otherwise indicates or requires:
   - double degree means the award of Bachelor of Teaching/Bachelor of Arts;
   - Group 1 subjects means the subjects offered by the Faculty of Education for the purposes of satisfying the requirements of the double degree;
   - Group 2 subjects means the subjects offered by other faculties of the University and deemed appropriate by the Faculty Board for the purpose of satisfying the requirements for the double degree.
Bachelor of Teaching/Bachelor of Arts (Central Coast Campus)

Award Abbreviation: BTeach/BA

The Bachelor of Teaching/Bachelor of Arts (Central Coast Campus) is offered by the Faculty of Education. The Faculty of the Central Coast has administrative responsibility for the course as it is conducted on the Central Coast Campus.

The Bachelor of Teaching/Bachelor of Arts degree is a four-year integrated course which prepares students for one of the teaching areas:

- Teaching and Learning
- Professions

The Bachelor of Teaching subjects will be offered under four strands: Teaching and Learning subjects (including Specialist Teaching Methods subjects, Practicum, and Field Experience), and Research subjects. The final year of the course consists entirely of teaching studies and professional preparation culminating in a field experience.

A recommended program for English teaching is:

### 100 Level (Year 1)

In Year 1, full-time students will undertake a total of 80 credit points comprising 20 credit points in the Bachelor of teaching component and 60 credit points in the Bachelor of Arts component. The Bachelor of Arts subjects will consist of 20 credit points of English (major subject), 20 credit points of a minor subject and 20 credit points of elective subjects.

#### 200 Level (Year 2)

In Year 2, students will undertake a total of 80 credit points comprising 30 credit points in the Bachelor of Teaching component and 50 credit points in the Bachelor of Arts component. The Bachelor of Arts subjects will consist of 30 credit points of English and 20 credit points of the minor subject.

#### 300 Level (Year 3)

In Year 3, students will complete a further 80 credit points comprising 30 credit points in the Bachelor of Teaching component and 50 credit points in the Bachelor of Arts. The Bachelor of Arts subjects will consist of 40 or 50 credit points in English and 20 or 10 credit points of minor subject.

### 400 Level (Year 4)

The final year of the course consists of 70 credit points of teaching studies and professional preparation, including a ten-week school teaching field experience in a secondary school and 10 credit points of English or the minor teaching subject. Students may elect to complete an alternative Year 4 program in Special Education in order to qualify for employment as special education teachers. In addition to teaching in the other chosen area of specialisation, Selection procedures will apply.

Field Experience

Field Experience subjects for each discipline area in all Double Degree programs must be completed in the prescribed sequence, with at least one field experience subject relating to the specialisation of the Field Experience 4.

The Field Experience 4 in the Double Degree programs can only be undertaken on the successful completion of 270 credit points of that Double Degree specialisation.
Teacher Research Project

I are subjects of Arts Group A and any count towards the degree, other than Education subjects (EDUC prefix), as approved by the Dean of the Faculty of Education. Refer to list of Approved Group A Subjects for Bachelor of Arts. Consult with Course Coordinator if you wish to enrol in other (non Bachelor of Arts Group A) subjects.

# Major and Minor requirements at 200 and 300 level
By the end of Semester 1, Year 4, excluding two 100 level subjects in each of English and minor students should have completed:

<table>
<thead>
<tr>
<th>Level</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>English</td>
<td>30</td>
</tr>
<tr>
<td>200</td>
<td>English</td>
<td>40</td>
</tr>
<tr>
<td>200</td>
<td>Minor</td>
<td>10 or 20</td>
</tr>
<tr>
<td>300</td>
<td>Minor</td>
<td>0 or 10</td>
</tr>
<tr>
<td>Total</td>
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</table>

If students do a total of 40 credit points minor.

When selecting your subjects each year you should note the Assumed Knowledge for subjects which you intend to select in later years.

Course Structure · Primary Teaching

In the 160 credit point Bachelor of Teaching component, candidates will undertake subjects offered under four strands: Teaching and Learning subjects (including Special Education), Primary Key Learning Area Curriculum methods subjects, Field Experience subjects and Research subjects.

The 160 credit point Bachelor of Arts component consists of a 90 credit point major in a discipline area of the candidate’s choice, a prescribed 10 credit point subjects and 20 credit points of study in an elected discipline area.

A recommended program for Primary teaching is:

**100 Level (Year 1)**
In year 1 students will undertake a total of 80 credit points comprising 20 credit points in the Bachelor of Teaching component and 60 credit points in the Bachelor of Arts component. The Bachelor of Arts subjects will consist of 20 credit points of compulsory subjects, 20 credit points of major from Group A and 20 credit points of electives subjects.

**200 Level (Year 2)**
In year 2 students will study 80 credit points comprising 30 credit points in the Bachelor of Teaching component and 50 credit points in the Bachelor of Arts. The Bachelor of Arts will consist of 30 credit points in the major subject and 20 credit points in Foundation Art, Health and Physical Education, Science and Technology.

**300 Level (Year 3)**
The year 3 program will consist of a further 80 credit points of which 30 credit points will be in the Bachelor of Teaching component and 50 credit points in the Bachelor of Arts. The Bachelor of Arts will consist of 40 credit points of the major subject and 10 credit points in Aboriginal Studies.

**400 Level (Year 4)**
The final year of the course consists of 80 credit points of teaching studies and professional preparation, including a ten week in school teaching experience. Students may elect to complete an alternative Year 4 program in Special Education in order to qualify for employment as Special Education teachers in addition to teaching in the other chosen area of specialization. Selection procedure will apply. See Special Education entry for details.

Field Experience:
Field Experience for each discipline area in all Double Degree programs must be completed in the prescribed sequence, with at least one field experience subject relating to the specialization of the Field Experience Year 4.

The Field Experience Year 4 in the Double Degree programs can only be undertaken on the successful completion of that Double Degree specialization.

Approved Program for Students Commencing in 2001 - Primary Teaching
Students can vary their program from year 3 to specialise in Primary/Early Years or Primary/Middle Years.

If subjects are not available at the Central Coast Campus, they may be available at Callaghan Campus.

Subject Code | Subject Name | Credit Points | Semester | Assumed Knowledge | Concurrent Assumed Knowledge (CK)
--- | --- | --- | --- | --- | ---
HEC0150 | Learners and the Learning | 10 | 1 | | |
HEC0170 | Foundations for Teaching | 10 | 1 | | |
HEC0175 | Introduction to Linguistics | 10 | 1 | | |
HEC0180 | Major Discipline Study: 100 level Bachelor of Arts Group A subjects | 20 | | | |
HEC0200 | Foundations in Art Making | 10 | 2 | | |
HEC0210 | Teaching and Learning in Social and Environmental Studies | 10 | 2 | | |
HEC0220 | Bachelor of Arts: Australian History or Australian Studies subject | 10 | 1 | | |
HEC0221 | Social and Cultural Contexts in Education | 10 | 2 | | |
HEC0222 | Teaching Language and Literacy | 10 | 1 | LING111 | |
HEC0225 | Field Experience 1 | 10 | 1 | | |
HEC0226 | Field Experience 2 | 10 | 2 | HEDU025 | |
HEC0230 | Behaviour and Classroom Management | 10 | 1 | | |
HEC0231 | Science and Technology in Classrooms | 10 | 2 | | |
HEC0240 | Major Discipline Study 200/300 level | 20 | | 20 credit points selected major at 100 level | |
HEC0250 | Catering for Children With Special Needs | 10 | 1 | | |
HEC0251 | Teaching and Learning in Mathematics | 10 | 1 | | |
HEC0253 | Mathematics and Technology | 10 | 1 | | |
HEC0260 | Australian Families | 10 | 1 | | |
HEC0261 | Field Experience 1 | 10 | 2 | | |
HEC0262 | Music, Art and Humanity | 10 | 2 | | |
HEC0263 | Food and Nutrition | 10 | 1 | | |
HEC0264 | Major Discipline Study 200/300 level | 10 | | | |
HEC0265 | GEDS010 or HEDM351 Making and Telling Stories | 10 | | | |
HEC0266 | Aboriginal Education, Policy and Issues | 10 | 1 | | |
HEC0267 | Learning Through Play | 10 | 1 | | |
HEC0268 | Early Childhood Literacies | 10 | 1 | | |
HEC0269 | Health and Physical Education | 10 | 1 | | |
HEC0270 | Arts Curriculum | 10 | 1 | | |
HEC0271 | World and Work: The Whole Teacher | 10 | 2 | | |
HEC0272 | Field Experience 4 | 20 | 2 | HEDU006 | |
HEC0273 | Catering for Children With Special Needs | 10 | 1 | | |
HEC0274 | Teaching and Learning in Mathematics | 10 | 1 | | |
HEC0275 | Mathematics and Technology | 10 | 1 | | |
HEC0276 | Field Experience 3 | 10 | 2 | | |
HEC0277 | Issues in Adolescent Development | 10 | 2 | | |
HEC0278 | Major Discipline Study 200/300 level | 20 | | | |
HEC0279 | GEDS010 or HEDM351 Making and Telling Stories | 10 | | | |
HEC0280 | Youth Studies | 10 | 1 | | |
HEC0281 | Aboriginal Education, Policy and Issues | 10 | 1 | | |
HEC0282 | Health and Physical Education | 10 | 1 | | |
HEC0283 | Arts Curriculum | 10 | 1 | | |
HEC0284 | Major Discipline Study 200/300 level | 10 | | | |
HEC0285 | GEDS010 or HEDM351 Making and Telling Stories | 10 | | | |
HEC0286 | Literacies for the Middle Years | 10 | 1 | | |
HEC0287 | GEDS010 or HEDM351 Making and Telling Stories | 10 | | | |
**Year 4 Special Education Option**

In the 160 credit point Bachelor of Teaching component, candidates will undertake subjects offered under four strands: Teaching and Learning subjects (including Special Education), Primary Key Learning Area Curriculum-method subjects, In-school Experience subjects, and Research subjects.

---

### Bachelor of Teaching/Bachelor of Arts - Primary (Central Coast Campus only)

This option is open to all students at the 400 level completing the Primary specialisation and is subject to selection procedures.

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<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
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<tr>
<td>EDS411C</td>
<td>Perspectives in Special Education</td>
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<td>EDS412C</td>
<td>Planning in Special Education</td>
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<td>EDS451C</td>
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<td>EDS413C</td>
<td>Literacy, Numeracy and Communication</td>
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<td>EDS414C</td>
<td>Supporting Behaviour change in Special Education</td>
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<td>2</td>
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<tr>
<td>EDS400C</td>
<td>Internship</td>
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<tr>
<td>EDPS453C</td>
<td>Teaching and Learning in Creative and Practical Arts K-6</td>
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</table>

Note: Students enrolling in the 400 level Special Education option must have completed EDET312 Special Education and EDES307 Practicum and have completed EDTE312 Special Education and EDES307 Practicum in Inclusive Settings to gain entry into the program.

---

### Bachelor of Teaching/Bachelor of Arts - Secondary Specialisations (Central Coast Campus only)

This option is open to all students at the 400 level completing a secondary specialisation, subject to selection procedures.

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<th>Credits Points</th>
<th>Semester</th>
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<td>Perspectives in Special Education</td>
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<td>1, 2</td>
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<tr>
<td>EDS412C</td>
<td>Planning in Special Education</td>
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<td>EDS431C</td>
<td>Teaching and Learning in English 3A</td>
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<tr>
<td>EDS413C</td>
<td>Literacy, Numeracy and Communication</td>
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<td>1</td>
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<tr>
<td>EDS414C</td>
<td>Supporting Behaviour change in Special Education</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>EDS400C</td>
<td>Internship</td>
<td>20</td>
<td>2</td>
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<tr>
<td>300 level English for major or 300 level for minor sequence</td>
<td>10</td>
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<tr>
<td>EDPS454C</td>
<td>Aboriginal Education</td>
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</tr>
</tbody>
</table>

Note: Students enrolling in the 400 level Special Education option must have completed EDET312 Special Education and EDES307 Practicum in Inclusive Settings to gain entry into the program.

---

**Schedule**

**Interpretation**

1. In this Schedule, unless the context or subject matter otherwise indicates or requires:
   - **double degree** means the award of Bachelor of Teaching/Bachelor of Arts;
   - **Group 1 subjects** means the subjects offered by the Faculty of Education for the purpose of satisfying the requirements of the double degree;
   - **Group 2 subjects** means the subjects offered by other Faculties of the University and deemed appropriate by the Faculty Board for the purpose of satisfying the requirements for the double degree.

---

**Qualification for the Award**

1. To qualify for the award of the double degree a candidate shall pass subjects approved by the Faculty Board, totalling not less than 120 credit points comprising 180 credit points of Group 1 subjects and 140 credit points of Group 2 subjects.

**Enrolment**

3. Candidates shall not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board.

**Credit**

4. Credit may be granted in a maximum of 210 credit points except that:
   a. no more than 150 credit points may be granted for work counted towards a completed award; and
   b. the Faculty Board may grant such additional credit as it determines to be appropriate for subjects completed in the University which have not been counted towards a completed degree.

---

**Grading of the Award in Teaching**

5. (1) The double degree shall be conferred as an ordinary award except that where a candidate has performed at a standard determined by the Faculty Board to be of sufficient merit, the award may be made with Honours in Teaching.
   (2) There shall be two classes of Honours, namely Class I and Class II. Class II has two divisions, namely Division I and Division II.

**Withdrawal from Subjects**

6. Other than in exceptional circumstances approved by the Dean, a candidate shall not be permitted to withdraw from the subjects Practicum or Internship later than the day before the commencement of Practicum or Internship.

---

**Bachelor of Teaching/Bachelor of Design & Technology**

**Award Abbreivation: BTeach/BD&T** Please Note: This program is subject to approval by Academic Senate.

The Bachelor of Teaching/Bachelor of Design & Technology is offered by the Faculty of Education. This four-year integrated course prepares students to teach in the area of technological and Applied Studies.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/student/austrnicnet/index.htm

**Course Structure**

Candidates will undertake discipline studies in Design and Technology (140 credit points) and teaching studies (180 credit points). The Teaching component subjects are offered under four strands: Teaching and Learning (including Special Education); Specialist Teaching Method; Professional Experience, and Research. The final year of the course consists entirely of teaching studies and professional preparation culminating in an Internship.

**Professional Experience and Internship**

The professional experience and internship subjects for each discipline area in all Double Degree programs must be completed in the prescribed sequence, with at least one professional experience subject relating to the specialisation of the Internship. The Internship in the Double Degree programs can only be undertaken on the successful completion of 270 credit points of that Double Degree specialisation.

**Special Education Option**

Students may elect to complete an alternative program commencing in Year 3 in order to qualify for employment as a Special Education teacher in addition to teaching in the chosen area of specialisation. Selection procedures will apply. Students who select the Special Education option replace the subjects marked * in the Approved Program with the subjects from the Special Education program.

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**Approved Program for Students Commencing in 2001**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credits Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<tbody>
<tr>
<td>EDS4111</td>
<td>Learners and the Learning Process 1</td>
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<td>EDS4112</td>
<td>Professional Preparation 1A</td>
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<td>EDS4121</td>
<td>Professional Preparation 1B</td>
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<td>EDS121</td>
<td>Contexts of teaching 1</td>
<td>10</td>
<td>2</td>
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<td>DESN160</td>
<td>Design and Technology Subjects</td>
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<td>2</td>
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<td>DESN146</td>
<td>History of Design &amp; Technology</td>
<td>10</td>
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**Schedule**

**Interpretation**

1. In this Schedule, unless the context or subject matter otherwise indicates or requires:
   - **double degree** means the award of Bachelor of Teaching/Bachelor of Arts;
   - **Group 1 subjects** means the subjects offered by the Faculty of Education for the purposes of satisfying the requirements of the double degree;
   - **Group 2 subjects** means the subjects offered by other Faculties of the University and deemed appropriate by the Faculty Board for the purpose of satisfying the requirements for the double degree.
Students who have completed MECH 122 Computer Aided Engineering (Formerly MECH 111 Engineering Drawing) will have a direct credit into Production Drawing 1 (CAD). MECH 111 Engineering Drawing will no longer be offered in this Elective.

MECH125 Materials Science and Engineering (formerly MECH121 and MECH103)
MECH135 Introductory Mechanics (formerly MECH131 and CIVL111)
ELEC120 Electrical Engineering 10 1
ELEC121 Introduction to Engineering 10 1
ELEC123 Introductory Mechanics 10 1
ELEC125 Materials, Science and Engineering 10 1

ELECTIVE GROUP 7: COMPUTING STUDIES
ELEC170 Computer Engineering 10 2
SEN111 Introduction to Software Engineering 10 1
SEN112 Introduction to Software Engineering 2 10 2
COMP105 Internet Communication 10 1

ELECTIVE GROUP 8: VOCATIONAL EDUCATION - MINOR ONLY - NOT OFFERED 2001

Year 2
ED52201 Professional Experience 1 10 1
EDET132 Teaching and Learning in D&T 1 10 1
EDET223 Teaching and Learning in D&T 2 5 1
EDET231 Professional Preparation 2 5 1

Design and Technology Subjects - consult the University Timetable in the relevant year to confirm semester of offer of subject

EDEM247 Workshop Skills 10 1
EDUM246 Environmental Design 10 2
EDUM160 Production Drawing 1 (CAD) 10 1

Interpretation
1. In this Schedule, unless the context or subject matter otherwise indicates or requires:
   double degree means the award of Bachelor of Teaching/Bachelor of Design and Technology.
   Faculty Board means the Faculty Board, Faculty of Education;
   Group 1 subjects means the subjects offered by the Faculty of Education for the purpose of satisfying the requirements of the double degree;
   Group 2 subjects means the subjects offered by the other Faculties of this University and deemed appropriate by the Faculty Board, Faculty of Education, for the purposes of satisfying the requirements of the double degree.

Qualification for the Award
2. To qualify for the award of the double degree a candidate shall pass subjects approved by the Faculty Board, totalling not less than 310 credit points comprising 180 credit points of Group 1 subjects and 140 credit points of Group 2 subjects.
Enrolment
3. Candidates shall not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board.

Credit
4. Credit may be granted in a maximum of 210 credit points except that:
   (a) no more than 150 credit points may be granted for work counted towards a completed award; and
   (b) the Faculty Board may grant such additional credit as it determines to be appropriate for subjects completed in the University which have not been counted towards a completed degree.

Grading of the Award in Teaching
5. (1) The double degree shall be conferred as an ordinary award except that where a candidate has performed at a standard determined by the Faculty Board to be of sufficient merit, the award may be made with Honours in Teaching.
   (2) There shall be two classes of Honours, namely Class I and Class II: Class II has two divisions, namely Division 1 and Division 2.

Withdrawal from Subjects
6. Other than in exceptional circumstances approved by the Dean, a candidate shall not be permitted to withdraw from the Practicum or Internship later than the day before the commencement of Practicum or Internship.

Bachelor of Teaching/Bachelor of Early Childhood Studies (Callaghan Campus)
Award Abbreviation: BTeach/BECS Please Note: This program is subject to approval by Academic Senate.

The Bachelor of Teaching/Bachelor of Early Childhood Studies is offered by the Faculty of Education. This four-year integrated course prepares students for teaching children up to eight years old.

TAFE Credit
Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/services/aas/undergrad/index.html.

Course Structure
The Early Childhood Studies component consists of foundation studies in early childhood education across a range of disciplines. The Education component subjects are offered under four strands: Teaching and Learning (Including Special Education); Special Teaching Methods; Professional Experience, and Research.

Year 1
In year 1 students undertake a total of 80 credit points comprising 40 credit points in the Teaching component and 40 credit points in the Early Childhood Studies component. The Early Childhood Studies subjects cover a range of 30 credit points in each of Linguistics, Elementary Mathematics, Foundations in Creative Arts and Foundations of Australian Society.

Year 2
In year 2 students undertake a total of 80 credit points comprising 40 credit points in the Teaching component and 40 credit points in the Early Childhood Studies component. The Teaching component includes a Professional Experience subject in each semester.

Year 3
In year 3 students undertake a total of 80 credit points comprising 40 credit points in the Teaching component and 40 credit points in the Early Childhood Studies component. The Teaching component includes a Professional Experience subject in each semester.

Year 4
In year 4 students undertake a total of 80 credit points comprising 60 credit points in the Teaching component and 20 credit points in the Early Childhood Studies component. The Teaching component includes a one-week internship.

Professional Experience and Internship: The professional experience and internship subjects for each discipline area in all Double Degree programs must be completed in the prescribed sequence, with at least one professional experience subject relating to the specialisation of the internship.

The internship is the Double Degree specialisation.

Approved Program for Students Commencing in 2001

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<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
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<td>EDEC132</td>
<td>Professional Preparation 1B</td>
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<td>EDEC133</td>
<td>Coverts of Teaching 1</td>
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<td>EDEC102</td>
<td>Foundations in Creative Arts for EC</td>
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<td>EDEC101</td>
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<td>EDEC150</td>
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<th>Semester</th>
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<td>EDEC334</td>
<td>Sociology of Australian Families</td>
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<th>Semester</th>
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Bachelor of Teaching/Bachelor of Social Science (Central Coast Campus)

**Award Abbreviation:** BTeach/BECS

The Bachelor of Teaching/Bachelor of Social Science (Central Coast Campus) is offered only for continuing students. The Faculty of the Central Coast has administrative responsibility for the course as it is conducted on the Central Coast Campus. This four-year integrated course prepares students for teaching children up to eight years old.

**TAFE Credit**

Credit transfer arrangements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at [http://www.newcastle.edu.au/teaching/central/tafe.html](http://www.newcastle.edu.au/teaching/central/tafe.html).

**Course Structure**

The Early Childhood Studies component consists of foundation studies of early childhood education across a range of disciplines. The Education component subjects are offered under four strands: Teaching and Learning (including Special Education), Specialist Teaching Methods, Professional Experience, and Research.

**Year 1**

In year 1 students undertake a total of 80 credit points comprising 20 credit points in the Bachelor of Teaching component and 60 credit points in the Early Childhood Studies component.

**Year 2**

In year 2 students undertake a further 80 credit points comprising 30 credit points in the Bachelor of Teaching component and 50 credit points in the Early Childhood Studies component.

**Year 3**

In year 3 students undertake a total of 80 credit points comprising 30 credit points in the Bachelor of Teaching component and 50 credit points in the Early Childhood Studies component.

**Schedule**

**Interpretation**

1. In this Schedule, unless the context or subject matter otherwise indicates or requires:
   - **double degree** means the award of Bachelor of Teaching/Bachelor of Social Science;
   - **Faculty Board** means the Faculty Board, Faculty of Education;
   - **Group 1 subjects** means the subjects offered by the Faculty of Education for the purpose of satisfying the requirements of the double degree, and
   - **Group 2 subjects** means the subjects offered by other Faculties of the University and deemed appropriate by the Faculty Board to the purpose of satisfying the requirements for the double degree.

**Qualification for the Award**

1. To qualify for the award of the double degree a candidate shall pass subjects approved by the Faculty Board, totalling not less than 320 credit points comprising 180 credit points of Group 1 subjects and 140 credit points of Group 2 subjects.

**Enrolment**

1. Candidates shall not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board.

**Credit**

2. Credit may be granted in a maximum of 210 credit points except that:
   - (a) no more than 150 credit points may be granted for work counted towards a completed award; and
   - (b) the Faculty Board may grant such additional credit as it determines to be appropriate for subjects completed in the University which have not been counted towards a completed degree.

**Grading of the Award in Teaching**

3. (1) The double degree shall be conferred as an ordinary award except that where a candidate has performed at a standard determined by the Faculty Board to be of sufficient merit, the award may be made with Honours in Teaching.
   - (2) There shall be two classes of Honours, namely Class I and Class II. Class II has two divisions, namely Division 1 and Division 2.

**Withdraw from Subjects**

4. Other than in exceptional circumstances approved by the Dean, a candidate shall not be permitted to withdraw from the subjects Practicum or Internship later than the day before the commencement of Practicum or Internship.

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**Approved Subjects**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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</table>

*Group 1 subjects are subjects available as Bachelor of Social Science Group A subjects and any other subjects counting towards the Bachelor of Social Science degree, approved by the Dean, Faculty of Education.*

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**Schedule**

**Interpretation**

1. In this Schedule, unless the context or subject matter otherwise indicates or requires:
   - **double degree** means the award of Bachelor of Teaching/Bachelor of Social Science;
   - **Faculty Board** means the Faculty Board, Faculty of Education;
   - **Group 1 subjects** means the subjects offered by the Faculty of Education for the purpose of satisfying the requirements of the double degree, and
Bachelor of Teaching/Bachelor of Fine Art

Award Abbreviation: BTeach/BFA. Please Note: This program is subject to approval by Academic Senate.

The Bachelor of Teaching/Bachelor of Fine Art is offered by the Faculty of Education. This four-year integrated course prepares students to teach visual arts in secondary schools.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/our/saw/tafecredit/index.htm

Course Structure

The course leading to the double degree of Bachelor of Teaching/Bachelor of Fine Art is designed as an integrated four-year 320 credit points program consisting of studies in Teaching and Visual Arts.

In the Teaching component subjects are offered under five strands: Teaching and Including Special Education; Specialist Teaching methods; Professional Experience, and a school-based project. The final year of the course is directed entirely to teaching studies and professional preparation culminating in an internship.

Professional Experience and Internship

The professional experience and internship subjects for each discipline area in all Double Degree programs must be completed in the prescribed sequence, with at least one professional experience subject relating to the specialisation of the internship.

The internship in the Double Degree programs can only be undertaken on the successful completion of 270 credit points of that Double Degree specialisation.

Special Education Option

Students may elect to complete an alternative program commencing in Year 3 in order to qualify for employment as a Special Education teacher in addition to teaching in the chosen area of specialisation. Selection procedures will apply. Students who select the Special Education option replace the subjects marked "*" in the Approved Program with the subjects from the Special Education program.

Approved Program for Students commencing in 2001

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
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<td>EDTE127</td>
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Year 4 Special Education Option

Bachelor of Teaching/Bachelor of Fine Art

This option is open to students at the 300/400 level and is subject to selection procedures.

Students enrolling in the 300/400 level Special Education option must complete EDTE312 Special Education prior to commencing other subjects in the program.
### Schedule

**Interpretation**
1. In this Schedule, unless the context or subject matter otherwise indicates or requires:
   - **double degree** means the award of Bachelor of Teaching/Bachelor of Fine Art;
   - **Group 1 subjects** means the subjects offered by the Faculty of Education for the purposes of satisfying the requirements of the double degree; and
   - **Group 2 subjects** means the subjects offered by other Faculties of the University and deemed appropriate by the Faculty Board for the purpose of satisfying the requirements for the double degree.

**Qualification for the Award**
2. To qualify for the award of the double degree a candidate shall pass subjects approved by the Faculty Board, totalling not less than 320 credit points comprising 180 credit points of Group 1 subjects and 140 credit points of Group 2 subjects.

**Enrolment**
3. Candidates shall not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board.

**Credit**
4. Credit may be granted in a maximum of 210 credit points except that:
   - (a) no more than 150 credit points may be granted for work counted towards a completed award; and
   - (b) the Faculty Board may grant such additional credit as it determines to be appropriate for subjects completed in the University which have not been counted towards a completed degree.

**Grading of the Award in Teaching**
5. (1) The double degree shall be conferred as an ordinary award except that where a candidate has performed at a standard determined by the Faculty Board to be of sufficient merit, the award may be made with Honours in Teaching.
   (2) There shall be two classes of Honours, namely Class I and Class II. Class II has two divisions, namely Division 1 and Division 2.

**Withdrawal from Subjects**
6. Other than in exceptional circumstances approved by the Dean, a candidate shall not be permitted to withdraw from the subjects.

**Practicum or Internship**
7. The prescribed sequence, with at least one professional experience subject relating to the area of specialisation, culminates in an internship.

### Bachelor of Teaching/Bachelor of Health and Physical Education

**Award Abbreviation:** BTeach/BHPE Please Note: This program is subject to approval by Academic Senate.

The Bachelor of Teaching/Bachelor of Health and Physical Education is offered by the Faculty of Education. This four-year integrated course prepares students to teach in the areas of personal development, health and physical education in secondary schools.

### TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University’s website, at http://www.newcastle.edu.au/services/oustr/aau/tafecred/index.htm.
Year 4 Special Education Option

Bachelor of Teaching/Bachelor of Health and Physical Education

This option is open to students at the 300/400 level and is subject to selection procedures.

Students enrolling in the Bachelor of Teaching/Bachelor of Health and Physical Education and the Bachelor of Music must complete 180 credit points of Group 1 subjects and 180 credit points of Group 2 subjects.

Procedure for the Award

1. To qualify for the award of the double degree a candidate shall pass subjects approved by the Faculty Board, totalling not less than 360 credit points comprising 180 credit points of Group 1 subjects and 180 credit points of Group 2 subjects.

2. Candidates shall not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board.

3. Credit may be granted in a maximum of 210 credit points except that:
   a. no more than 150 credit points may be granted for work counted towards a completed award; and
   b. the Faculty Board may grant such additional credit as it determines to be appropriate for subjects completed in the semester which have not been counted towards a completed degree.

4. The double degree shall be conferred as an ordinary award except that where a candidate has performed at a standard determined by the Faculty Board to be of sufficient merit, the award may be made with Honours in Teaching.

5. There shall be two classes of Honours, namely Class I and Class II. Class II has two divisions, namely Division 1 and Division 2.

6. Students may elect to complete an alternative program commencing in Year 3 in order to qualify for employment as a 'Special Education Teacher in addition to teaching in the chosen area of specialisation. Selection procedures will apply. Students who select the Special Education option replace the subjects marked * in the Approved Program with the subjects from the Special Education program.

Approved Program for Students Commencing in 2001

Year 1

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<td>EDET132</td>
<td>Professional Preparation 1B</td>
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<td>EDET171</td>
<td>Contexts of Teaching 1</td>
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<td>2</td>
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<td>EDTE161</td>
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Year 2

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Note: This program is subject to approval by Academic Senate.

Bachelor of Teaching/Bachelor of Music

Award Abbreviation: BTeach/BMus

The Bachelor of Teaching/Bachelor of Music is offered by the Faculty of Education. This four-year integrated course prepares students for the teaching profession in music.

TAFE Credit

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements please see the University's website, at http://www.newcastle.edu.au/academic/units/teach/credit/index.htm

Course Structure

The Bachelor of Teaching/Bachelor of Music involves completion of Music subjects and Teaching subjects. The Bachelor of Music component consists of a major study in Performance or Composition, as well as Ensemble Studies, Techniques, Materials of Music, and Musicology. In the Education component of the degree, subjects are offered under four strands: Teaching and Learning (including Special Education), Specialist Teaching methods, Experience and School-based projects. The final year of the course consists entirely of teaching studies and professional preparation culminating in an internship.

The recommended program is as follows:

Professional Experience and Internship

The professional experience and internship subjects for each discipline area in all Double Degree programs must be completed in the prescribed sequence, with at least one professional experience subject relating to the specialisation of the internship.

The internship in the Double Degree programs can only be undertaken on the successful completion of 270 credit points of that Double Degree specialisation.

Special Education Option

Students may elect to complete an alternative program commencing in Year 3 in order to qualify for employment as a 'Special Education Teacher in addition to teaching in the chosen area of specialisation. Selection procedures will apply. Students who select the Special Education option replace the subjects marked * in the Approved Program with the subjects from the Special Education program.

Approved Program for Students Commencing in 2001

Year 1

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<th>Subject Code</th>
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<th>Credit Points</th>
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<td>Learners and the Learning Process 1</td>
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<td>Materials of Music 2</td>
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<tr>
<td>EDTE204</td>
<td>Musicology 1</td>
<td>5</td>
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<td>EDTE205</td>
<td>Musicology 2</td>
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<tr>
<td>EDTE210</td>
<td>Computing Techniques for Musicians</td>
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<td>EDTE212</td>
<td>Fundamental Music Technology</td>
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Year 2

<table>
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<tr>
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<td>EDTE271</td>
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<td>EDTE272</td>
<td>Teaching &amp; Learning in Music 2</td>
<td>5</td>
<td>2</td>
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<tr>
<td>EDTE273</td>
<td>Professional Preparation 2</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>EDTE314</td>
<td>Principal Study (Education) 3</td>
<td>3</td>
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</tr>
<tr>
<td>EDTE355</td>
<td>Principal Study (Education) 4</td>
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<td>EDTE365</td>
<td>Ensemble Studies (Education) 3</td>
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<tr>
<td>EDTE375</td>
<td>Ensemble Studies (Education) 4</td>
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</table>
**Bachelor of Teaching/Bachelor of Science**

**Award Abbreviation:** BTeach/BSc

The Bachelor of Teaching/Bachelor of Science is offered by the Faculty of Education. This four-year integrated course prepares students to teach mathematics or science in secondary schools.

**TAFE Credit**

Credit transfer agreements with TAFE NSW and other education providers are under continuous negotiation. For more information about articulation arrangements, please see the University's website, at [http://www.newcastle.edu.au/services/aodr/aodr/tdfe.c:red/index.htm](http://www.newcastle.edu.au/services/aodr/aodr/tdfe.c:red/index.htm)

**Course Structure**

The Bachelor of Teaching/Bachelor of Science is completed over 4 years, full-time or equivalent part-time study. It requires students to complete subjects approved by the Faculty Board totaling not less than 320 credit points.

**Mathematics Teaching - Course Structure**

In the Mathematics Teaching program, the Science component consists of courses in Mathematics plus two electives. In the Education component, subjects are offered under four strands: Teaching and Learning, including Special Education; Specialist Teaching Methods, Professional Experience, and Research. The final year of the course consists entirely of teaching studies and professional practice culminating in an internship. The recommended program appears below:

**Year 1**

In year 1, students undertake a total of 80 credit points comprising 40 credit points in the Teaching component and 40 credit points in the Science component. The Science component consists of 30 credit points of mathematics subjects and a 10 credit point elective subject. Students select their first year mathematics subjects according to their background in mathematics:

- **Pathway 1** - for students without the HSC 3U Mathematics assumed knowledge
- **Pathway 2** - for students who meet the HSC 3U Mathematics assumed knowledge.

Subjects for the two pathways are shown below in the Approved Program.
Year 2
In Year 2, students study a total of 80 credit points comprising 30 credit points in the Teaching component and 50 credit points in the Science component. There is a minor variation in the program according to whether the student is following Pathway 1 or Pathway 2.

Year 3
In Year 3, students complete a further 80 credit points comprising 30 points in the Teaching component and 50 credit points in the Science component. The Science component consists of an elective subject (10 credit points) and 40 credit points of mathematics subjects.

Year 4
The final year of the course consists of 80 credit points of teaching studies and professional preparation, including a ten-week in-school teaching internship in a secondary school.

Professional Experience and Internship
The professional experience and internship subjects for each discipline area in all Double Degree programs must be completed in the prescribed sequence, with at least one professional experience subject relating to the specialisation of the internship.

The internship in the Double Degree programs can only be undertaken on the successful completion of 270 credit points of the Double Degree specialisation.

Special Education Option
Students may elect to complete an alternative program commencing in Year 2 in order to qualify for employment as a Special Education teacher in addition to teaching in the chosen area of specialisation. Selection procedures will apply. Students who select the Special Education option replace the subjects marked * in the Approved Program with the subjects from the Special Education program.}

**Approved Program for Students Commencing in 2001 - Mathematics Teaching**

**Pathway 1 (For students without the HSC 3U Mathematics assumed knowledge)**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
<th>Concurrent Assumed Knowledge(CD)</th>
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<tbody>
<tr>
<td>EDET111</td>
<td>Learners and the Learning Process 1</td>
<td>10</td>
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<td>HSC 3U Mathematics (Advisory 6U/100) or MATH111</td>
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<tr>
<td>EDET131</td>
<td>Professional Preparation 1A</td>
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<td>EDET132</td>
<td>Professional Preparation 1B</td>
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<td>EDET121</td>
<td>Contexts of Teaching 1</td>
<td>10</td>
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<tr>
<td>Pathway 1 MATH111 Mathematics 111</td>
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<tr>
<td>Pathway 2 MATH122 Advanced Mathematics 121</td>
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<td>Pathway 1 MATH112 Mathematics 112</td>
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<td>Pathway 2 MATH222 Advanced Mathematics 222</td>
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<td>Elective subject selected from Group 2 subjects</td>
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**Pathway 2 (For students who meet the HSC 3U Mathematics assumed knowledge)**

<table>
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<th>Semester</th>
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<tbody>
<tr>
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<td>Teaching &amp; Learning in Mathematics 1</td>
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<td>EMA1223</td>
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<td>EMA1221</td>
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<td>EDE131</td>
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<td>5</td>
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<td>EDE131, EDE132</td>
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<tr>
<td>EDE132</td>
<td>Professional Experience 1</td>
<td>10</td>
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<td>EDE132</td>
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<tr>
<td>MATH120</td>
<td>Multivariable Calculus</td>
<td>5</td>
<td>1</td>
<td>MATH112 or MATH12</td>
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<tr>
<td>MATH121</td>
<td>Ordinary Differential Equations 1</td>
<td>5</td>
<td>1, 2</td>
<td>MATH12 or MATH122</td>
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<tr>
<td>MATH122</td>
<td>Linear Algebra</td>
<td>5</td>
<td>1</td>
<td>MATH122 or (MATH12 + MATH120)</td>
</tr>
<tr>
<td>MATH123</td>
<td>Analytic Methods 1</td>
<td>5</td>
<td>1</td>
<td>MATH122 or (MATH12 + MATH120)</td>
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<tr>
<td>MATH124</td>
<td>Algebraic Methods 1</td>
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<tr>
<td>MATH260</td>
<td>Mathematical Software</td>
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<td>MATH110, MATH111, MATH121 or MATH122</td>
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<tr>
<td>MATH272</td>
<td>Dynamical Systems &amp; Numerical Techniques</td>
<td>5</td>
<td>2</td>
<td>MATH112 or MATH122</td>
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</table>
Approved Program for Students commencing in 2001 - Science Teaching

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
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<tbody>
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<td>Learners and the Learning Process 1</td>
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<tr>
<td>EDT131</td>
<td>Professional Preparation 1A</td>
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<tr>
<td>BIOL101</td>
<td>Introduction to Cell &amp; Molecular Biology</td>
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<td>CHEM101</td>
<td>Introductory Chemistry I</td>
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<td>CHEM102</td>
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<td>PHYS113</td>
<td>Advanced Physics for Scientists and Engineers</td>
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<td>PHYS114</td>
<td>Advanced Physics for Scientists and Engineers</td>
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<tr>
<td>GEO101</td>
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<td>GEO102</td>
<td>Earth Materials</td>
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*Students must complete at least one of either Physics (PHYS113 and PHYS114) or Chemistry (CHEM101 and CHEM102).

(Apart from the physics or chemistry already chosen, students must complete either Geology (GEO101 and GEO102) or Biological Sciences (BIOL101 and BIOL102) or Chemistry (CHEM101 and CHEM102) or Physics (PHYS113 and PHYS114).

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
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<th>Subject Name</th>
<th>Credit Points</th>
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<tbody>
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<th>Semester</th>
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<th>Concurrent</th>
<th>Assumed Knowledge (CK)</th>
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<tbody>
<tr>
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<td>EDS221</td>
<td>Learners and the Learning Process 2</td>
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<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
<th>Concurrent</th>
<th>Assumed Knowledge (CK)</th>
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<td>EDS425</td>
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<td>EDS421</td>
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<td>40</td>
<td>1, 2</td>
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</table>

Special Education Option

Bachelor of Teaching/Bachelor of Science

This option is open to students at the 300/400 level and is subject to selection procedures.

Students enrolling in the 300/400 level Special Education option must complete EDS312 Special Education prior to commencing other subjects in the program.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Semester</th>
<th>Assumed Knowledge</th>
<th>Concurrent</th>
<th>Assumed Knowledge (CK)</th>
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<tbody>
<tr>
<td>Year 3</td>
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<td>Year 4</td>
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<td>Supporting Literacy, Numeracy and Communication in Special Education</td>
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<td>BRK406</td>
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</tbody>
</table>

Schedule

Interpretation

1. In the Schedule, unless the context or subject matter otherwise indicates or requires:
   - double degree means the award of Bachelor of Teaching/Bachelor of Science
   - Group 1 subjects means the subjects offered by the Faculty of Education for the purpose of satisfying the requirements of the double degree
   - Group 2 subjects means the subjects offered by other Faculties of the University and deemed appropriate by the Faculty Board for the purpose of satisfying the requirements of the double degree.

Qualification for the Award

2. To qualify for the award of the double degree a candidate shall pass subjects approved by the Faculty Board, totalling not less than 320 credit points comprising 180 credit points of Group 1 subjects and 140 credit points of Group 2 subjects.

Enrolment

3. Candidates shall not enrol in any year in a combination of subjects which is incompatible with the requirements of the Faculty Board.

Credit

4. Credit may be gained in a maximum of 210 credit points except that:
   - (a) no more than 150 credit points may be granted for work counted towards a completed award; and
   - (b) the Faculty Board may grant additional credit as it determines to be appropriate for subjects completed in the University which have not been counted towards a completed degree.

Grading of the Award in Teaching

5. The double degree shall be conferred as an ordinary award except that where a candidate has performed at a standard determined by the Faculty Board to be of sufficient merit, the award may be made with Honours in Teaching.

(2) There shall be two classes of Honours, namely Class I and Class II. Class II has two divisions, namely Division 1 and Division 2.

Withdrawal from Subjects

6. Other than in exceptional circumstances approved by the Dean, a candidate shall not be permitted to withdraw from the subjects Practicum or Internship later than the day before the commencement of Practicum or Internship.
Award Abbreviation: DipMus

The Diploma in Music is offered by the Faculty of Music. In 2001, it is offered to continuing students only. This three-year course qualifies students in music performance, composition or church music. Students must take 60 credit points of compulsory subjects each year and may specialise in performance, composition, or church music.

Course Structure

For information about requirements for completing the degree, students should contact the Faculty Office. For details about available subjects, students in 2001 should refer to the list of Approved Subjects in the Bachelor of Music entry.

Schedule

Admission to Candidature

1. In cases where they meet the published selection criteria determined by the Faculty Board, applicants for admission to candidature shall be required to undertake performing qualities assessment.

2. (1) The performing qualities assessment shall consist of:
   (a) such written tests and interviews as the Faculty Board shall require; and
   (b) an audition in which the candidate must demonstrate musical expertise at a level satisfactory to the Faculty Board.

3. Applicants who do not attend the University for performing qualities assessment as invited will be deemed to have withdrawn their application unless a reason acceptable to the University Secretary and Registrar is provided.

Ranking for Selection

3. Applicants shall be ranked in descending order of merit on the basis of:
   (a) academic performance based on the selection criteria determined under clause 1; and
   (b) academic performance and results determined by the Faculty Board arising from the performing qualities assessment.

Offers of Admission

4. The University Secretary and Registrar shall ensure that offers of admission are made in descending rank order to applicants ranked under clause 3, such that the places available in the course each year are filled.

Qualification for the Diploma

5. To qualify for admission to the Diploma, a candidate shall pass subjects totalling not less than 180 credit points, selected from the list of Approved Subjects and comprising:
   (a) at least 60 credit points at 100 level;
   (b) at least 60 credit points at 200 level; and
   (c) at least 60 credit points at 300 level.

Leave of Absence

6. (1) Leave of absence from the course may only be taken with the permission of the Faculty Board under such conditions as the Faculty Board shall determine.

7. A candidate in good academic standing at the end of an academic year may apply for leave of absence for the following year.

8. Such leave shall be granted to a candidate once only and will not normally be granted for a period of more than one year.

Resumption of Studies

7. A candidate who withdraws or who is absent from the course without leave and who subsequently wishes to resume studies in the course:
   (a) if the withdrawal or absence without leave occurred before accumulating 80 credit points will be required to re-apply for admission to candidature;
   (b) in any other case, may be permitted to re-enrol in the course under such conditions and at such time as the Faculty Board may determine.

Time Requirements

8. (1) Except with the permission of the Faculty Board, a candidate shall complete the Course within nine years of study.

9. A candidate who has been granted credit shall be deemed to have commenced the course from a date determined by the Dean at the time the credit is granted.
SUBJECT DESCRIPTIONS

Details of all subjects offered within the University's undergraduate courses listed in alphabetical order of subject code.
SUBJECT DESCRIPTIONS

Details of all subjects offered within the University's undergraduate courses listed in alphabetical order of subject code.
**ABOR134 Aboriginal Leadership** 10cp
Assumed Knowledge: Nil
Develops an understanding of leadership within Aboriginal communities. The subject examines the major challenges and issues facing Aboriginal leaders. Students will further understand the role of cultural leadership in Aboriginal communities.

**ABOR136 Aboriginal Cultural Leadership** 10cp
Assumed Knowledge: Nil
Examines the role of cultural leaders within Aboriginal communities. The subject focuses on the development and implementation of cultural change initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural leadership in responding to contemporary challenges.

**ABOR138 Aboriginal Cultural Studies** 10cp
Assumed Knowledge: Nil
Studies the cultural history and contemporary issues of Aboriginal societies. The subject examines the cultural traditions and practices of Aboriginal communities and their significance in the contemporary world. Students will develop an understanding of the cultural heritage and cultural diversity of Aboriginal societies.

**ABOR139 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR140 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR141 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR142 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR143 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR144 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR145 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR146 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR147 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR148 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.

**ABOR149 Aboriginal Cultural Health** 10cp
Assumed Knowledge: Nil
Examines the role of cultural health in promoting the well-being of Aboriginal communities. The subject focuses on the development and implementation of cultural health initiatives within Aboriginal communities. Students will develop an understanding of the role of cultural health in promoting the well-being of Aboriginal communities.
Semester 1

Assumed Knowledge: ACFI101 Financial Accounting

Develops the fundamental principles and practices of financial management and practice, including financial analysis and decision-making.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI102C Financial Management

Assumed Knowledge: ACFI101C Financial Accounting

Assumed Knowledge: ACFI202C Corporate Financial Regulation

Introduction to Corporate Financial Regulation

10cp

Assumed Knowledge: ACFI202C Business Finance

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 3 hours per week

Location and Semester Details: Central Coast - Semester 2

ACFI201 Corporate Accounting and Reporting

Assumed Knowledge: ACFI101 Financial Accounting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI103C Costing Principles and Methods

Assumed Knowledge: ACFI102C Costing Principles and Methods

Explores the theory and application of traditional and modern costing methods, principles, and techniques. Includes cost systems, materials, overheads, and taxation issues.

Contact hours: 4 hours per week

Location and Semester Details: Central Coast - Semester 1

ACFI302C Costing Principles and Methods

Assumed Knowledge: ACFI202C Costing Principles and Methods

Explores the theory and application of traditional and modern costing methods, principles, and techniques. Includes cost systems, materials, overheads, and taxation issues.

Contact hours: 4 hours per week

Location and Semester Details: Central Coast - Semester 1

ACFI210 Financial Principles for Business

Assumed Knowledge: ACFI101 Financial Accounting

Introduces the fundamental principles and practices of financial management and practice, including financial analysis and decision-making.

Contact hours: 4 hours per week

Location and Semester Details: Central Coast - Semester 1

ACFI104 Planning, Control And Performance Evaluation

Assumed Knowledge: ACFI203C Business Finance

Planning, control, and performance evaluation in a business context.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 2

ACFI105 Business Finance

Assumed Knowledge: ACFI102 Business Finance

Assumed Knowledge: ACFI203C Business Finance

Assumed Knowledge: ACFI102 Financial Accounting

Finance and accounting for business.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI106 Finance for Business

Assumed Knowledge: ACFI102 Business Finance

Assumed Knowledge: ACFI203C Business Finance

Assumed Knowledge: ACFI102 Financial Accounting

Finance and accounting for business.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI107 Business Finance

Assumed Knowledge: ACFI102 Business Finance

Assumed Knowledge: ACFI203C Business Finance

Assumed Knowledge: ACFI102 Financial Accounting

Finance and accounting for business.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI207C Business Finance

Assumed Knowledge: ACFI102, ECON110, ECON111 and one of S1D260, STAT120, ECON111, or 10 credit point 100 level Mathematics subject.

Introduces the theory and practice of financial management, including the role of financial markets and the valuation of corporate assets.

Contact hours: 4 hours per week

Location and Semester Details: Central Coast - Semester 1

ACFI108 Corporate Financial Decision Making

Assumed Knowledge: ACFI2078 Business Finance

Provides an introduction to financial management theory and practice, primarily in the context of corporate finance, financial analysis, and decision-making.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 2

ACFI202 Corporate Financial Regulation & Control

Assumed Knowledge: ACFI201C Corporate Accounting and Reporting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

ACFI109C Auditing, Auditing And Taxation

Assumed Knowledge: ACFI109C Auditing, Auditing And Taxation

Assumes knowledge of auditing and taxation. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 1

ACFI210 Financial Principles for Business

Assumed Knowledge: ACFI101 Financial Accounting

Introduces the fundamental principles and practices of financial management and practice, including financial analysis and decision-making.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI101C Corporate Accounting and Reporting

Assumed Knowledge: ACFI101 Financial Accounting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI203C Corporate Accounting and Reporting

Assumed Knowledge: ACFI101C Financial Accounting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI201C Corporate Accounting and Reporting

Assumed Knowledge: ACFI101C Financial Accounting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI202C Corporate Financial Regulation & Control

Assumed Knowledge: ACFI201C Corporate Accounting and Reporting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 2

ACFI203C Costing Principles and Methods

Assumed Knowledge: ACFI102C Costing Principles and Methods

Explores the theory and application of traditional and modern costing methods, principles, and techniques. Includes cost systems, materials, overheads, and taxation issues.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI204C Costing Principles and Methods

Assumed Knowledge: ACFI102C Costing Principles and Methods

Explores the theory and application of traditional and modern costing methods, principles, and techniques. Includes cost systems, materials, overheads, and taxation issues.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI205 Corporate Financial Decision Making

Assumed Knowledge: ACFI2078 Business Finance

Provides an introduction to financial management theory and practice, primarily in the context of corporate finance, financial analysis, and decision-making.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI206 Corporate Financial Regulation & Control

Assumed Knowledge: ACFI201C Corporate Accounting and Reporting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

ACFI207C Business Finance

Assumed Knowledge: ACFI102, ECON110, ECON111 and one of STAT120, ECON112, ECON113, or 10 credit point 100 level Mathematics subject.

Introduces the theory and practice of financial management, including the role of financial markets and the valuation of corporate assets.

Contact hours: 4 hours per week

Location and Semester Details: Central Coast - Semester 1

ACFI302C Reconstruction of Accounting Construction

Assumed Knowledge: ACFI202 Reconstruction of Accounting Construction

Introduces financial accounting as a mechanism for generating useful financial data.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 1

ACFI208 Corporate Financial Decision Making

Assumed Knowledge: ACFI2078 Business Finance

Provides an introduction to financial management theory and practice, primarily in the context of corporate finance, financial analysis, and decision-making.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 2

ACFI209 Corporate Financial Regulation & Control

Assumed Knowledge: ACFI201C Corporate Accounting and Reporting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

ACFI210 Financial Principles for Business

Assumed Knowledge: ACFI101 Financial Accounting

Introduces the fundamental principles and practices of financial management and practice, including financial analysis and decision-making.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI101C Corporate Accounting and Reporting

Assumed Knowledge: ACFI101 Financial Accounting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI201C Corporate Accounting and Reporting

Assumed Knowledge: ACFI101C Financial Accounting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI109C Auditing, Auditing And Taxation

Assumed Knowledge: ACFI109C Auditing, Auditing And Taxation

Assumes knowledge of auditing and taxation. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 1

ACFI210C Accounting and Decision Support Systems

Assumed Knowledge: ACFI204 Accounting and Decision Support Systems

Examines the use of accounting information within organisations. General principles established by reference to alternative organisational structures and decision making theories are used to evaluate the requirements of accounting in major organisational structures.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI203C Accounting and Decision Support Systems

Assumed Knowledge: ACFI204 Accounting and Decision Support Systems

Examines the use of accounting information within organisations. General principles established by reference to alternative organisational structures and decision making theories are used to evaluate the requirements of accounting in major organisational structures.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI201C Corporate Accounting and Reporting

Assumes knowledge of financial accounting. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

ACFI109C Auditing, Auditing And Taxation

Assumes knowledge of auditing and taxation. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 2

ACFI210C Accounting and Decision Support Systems

Assumes knowledge of auditing and taxation. Introduces the concepts of financial management and practice, including financial analysis and decision-making.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1
ACFI314 International Finance
Assumed Knowledge: ACF297
Deals with advanced aspects of corporate financial management in an international setting, summary budgeting with options, risk management.
Contact Hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

ACFI315 Behavioural Organisational Accounting and Social Aspects of Accounting
Assumed Knowledge: ACF1304
Deals with the current status and historical development of selected issues in Management Accounting. Includes a study of the accounting issues involved with various organisational structures and a study of behavioural and social considerations in the use of accounting information.
Contact Hours: 2 hours per week
Location and Semester Details: Central Coast - Semester 1

ACFI316 Behavioural Organisational Accounting and Social Aspects of Accounting
Assumed Knowledge: ACF1304
Deals with the current status and historical development of selected issues in Management Accounting. Includes a study of the accounting issues involved with various organisational structures and a study of behavioural and social considerations in the use of accounting information.
Contact Hours: 2 hours per week
Location and Semester Details: Central Coast - Semester 1

ACFI317 Taxation A
Assumed Knowledge: N/A
Introduces students to Australian income tax laws with specific emphasis on students learning how to access provisions of the Income Tax Assessment Act and related legislation. In addition students will be made aware of the tax planning issues and will learn how to communicate technical tax information to clients. Coxing Introduction to the Taxation of Individuals' Income, Concept of Assessee, Allocation of Income, Allowances, Deductions, Individual Taxpayers, Retained Earnings, Capital Gains, fringe benefits tax, taxation of partnerships and companies, taxation of trusts, and taxation of the GST.
Contact Hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

ACFI319 Financial Institutions
Assumed Knowledge: ACF230, ACF236, ACF316, ECON252, ECON253
Provides an overview of financial institutions and the role of financial institutions, key regulatory bodies and the way in which financial institutions operate. This unit examines the various forms of financial institutions and how they operate, and how to use financial institutions through an introduction to client services. Coxing Introduction to the Taxation of Individuals' Income, Concept of Assessee, Allocation of Income, Allowances, Deductions, Individual Taxpayers, Retained Earnings, Capital Gains, fringe benefits tax, taxation of partnerships and companies, taxation of trusts and the GST.
Contact Hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

ACFI330 Accounting and Finance: A User's Perspective
Assumed Knowledge: N/A
Not available to students enrolled in courses offered by the Faculty of Economics and Commerce.

ACFI3330 Accounting and Finance: A User's Perspective
Assumed Knowledge: N/A
Not available to students enrolled in courses offered by the Faculty of Economics and Commerce.

AHIS101 Greece to the Persian Wars
Assumed Knowledge: None
Examine the history of Greece from the time of the Persian Wars to the end of the Peloponnesian War. See also the development of the city-state as well as the role of the conflicts between Athens and Sparta. This unit introduces the world of ancient Greece, preparing the way for the study of Greek literature of the classical period. This unit is designed to provide a foundation for further study in ancient history. It serves as an introduction to the historical, social, and cultural context of ancient Greece.
Contact Hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

AHIS102 Rome to the Gracchi
Assumed Knowledge: None
Examine the social and political history of Rome from the early days down to the fall of the Roman Republic. This unit will focus on the development of the Republic, the establishment of the Empire, and the decline of Rome. It will also examine the role of Rome in the world of ancient Greece, preparing the way for the study of Greek literature of the classical period. This unit is designed to provide a foundation for further study in ancient history. It serves as an introduction to the historical, social, and cultural context of ancient Rome.
Contact Hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

AHIS204 Augustus and Tiberius: The Emergence of Rome
Assumed Knowledge: 20 credit points at any level in Ancient History or History
Examine the political, social, and cultural developments of the Roman Empire from the time of Augustus to the reign of Tiberius. This unit will focus on the establishment of the Roman Empire, the development of the political system, and the social and cultural changes that occurred during this period.
Contact Hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

AHIS212 Augustus and Tiberius: The Emergence of Empire
Assumed Knowledge: None
Examine the political, social, and cultural developments of the Roman Empire from the time of Augustus to the reign of Tiberius. This unit will focus on the establishment of the Roman Empire, the development of the political system, and the social and cultural changes that occurred during this period.
Contact Hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

AHIS313 Rome and the Early Empire
Assumed Knowledge: None
Examine the political, social, and cultural developments of the Roman Empire from the time of Augustus to the reign of Tiberius. This unit will focus on the establishment of the Roman Empire, the development of the political system, and the social and cultural changes that occurred during this period.
Contact Hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

AHIS314 Roman Britain and Anglo-Saxon England
Assumed Knowledge: None
Examine the political, social, and cultural developments of the Roman Empire from the time of Augustus to the reign of Tiberius. This unit will focus on the establishment of the Roman Empire, the development of the political system, and the social and cultural changes that occurred during this period.
Contact Hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

AHIS315 Spartans
Assumed Knowledge: None
Examine the political, social, and cultural developments of the Roman Empire from the time of Augustus to the reign of Tiberius. This unit will focus on the establishment of the Roman Empire, the development of the political system, and the social and cultural changes that occurred during this period.
Contact Hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1
AHIS317 Rome and the Celts

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Covers the history of Rome's contact and conflict with the Celts, from the sack of Rome by the Celts in 390 BC, to the final defeat of the Celts by the Romans in the time of Julius Caesar. It examines the nature and significance of the Celts and their role in the history of Europe.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

AHIS317C Rome and the Celts

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Covers the history of Rome's contact and conflict with the Celts, from the sack of Rome by the Celts in 390 BC, to the final defeat of the Celts by the Romans in the time of Julius Caesar. It examines the nature and significance of the Celts and their role in the history of Europe.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS331 Greek and Roman Epic

10cp
Assumed Knowledge: 40 credit points at any level

Studies the genre of Epic and the major works of epic in the Greek and Roman worlds. The major works considered are The Iliad and The Odyssey (Homer); the Argonautica of Apollonius; the Aeneid; and the Metastasies of Ovid. Attention will also be paid to minor epic and the genre of epica. All works will be studied in translation.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS331C Greek and Roman Epic

10cp
Assumed Knowledge: 40 credit points at any level

Studies the genre of Epic and the major works of epic in the Greek and Roman worlds. The major works considered are The Iliad and The Odyssey (Homer); the Argonautica of Apollonius; the Aeneid; and the Metastasies of Ovid. Attention will also be paid to minor epic and the genre of epica. All works will be studied in translation.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS332 Greek and Roman Comedy

10cp
Assumed Knowledge: 40 credit points at any level

Examines the comedy genre from Greek Old Comedy (Aristophanes), through Greek New Comedy (Menedechus), to the Roman Comedy of Plautus and Terence.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

AHIS333 Greek and Roman Erotica

10cp
Assumed Knowledge: 40 credit points at any level

Examines works in erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomsy of women; Roman love literature; and the treatment of sexual lesions.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS335 Greek and Roman Erotica

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS336C Greek and Roman Society

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS336E Greek and Roman Society

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS336W Greek and Roman Society

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS345C Greek and Roman Mythology

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS353 Greek and Roman Erotica

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS353C Greek and Roman Erotica

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS353W Greek and Roman Erotica

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS355 Greek and Roman Mythology

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS355E Greek and Roman Mythology

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

AHIS355W Greek and Roman Mythology

10cp
Assumed Knowledge: 20 credit points at any level in Ancient History or History

Examines works of erotic literature produced from ancient Greece to Rome. Topics include an introduction to erotism; eroticism in art and literature; the views of philosophers; treatment in Homer and Greek writers of Epic and lyric; and the views of philosophers, therapists and medics on the anatomy of women; Roman love literature; and the treatment of sexual lesions.

Examination: 3 hours per week
Location and Semester Details: Callaghan - Semester 2
ALSC302A Microbiology and Immunology (N & D) [Part A] 10cp

Assumed Knowledge: Nil

This subject is part of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

This subject is concerned with an introduction to the structure and function of living cells, and how microorganisms interact with their environment. The mode of delivery will primarily be lectures with some interactive seminars and laboratory workshop sessions in line with other biological subjects in (first year). Contact hours: 2 lecture hours and 1 tutorial hour per week and laboratory hour in alternate weeks.

ANAT102 Anatomy for Science Students 10cp

Assumed Knowledge: Nil

This is a lecture and laboratory subject. Students will be required to demonstrate their knowledge and skills in human anatomy for the year. The subject content and assessment, including some formal examinations, will be consistent with the year as a whole. Contact hours: 2 contact hours per week and 1 tutorial hour per week.

ARCH110 Architecture 1 (Part 1) 40cp

Assumed Knowledge: Nil

This subject concerns the design of buildings and the practical and theoretical aspects of design. The course is designed to be a general introduction to the field of architecture and to develop an understanding of the process of design. Contact hours: Up to 20 hours per week.

ARCH111 Architecture 2 (Part 2) 40cp

Assumed Knowledge: ARCH110 Architecture 1 (Part 1) or equivalent

This subject is the second year of the Bachelor of Science (Architecture) program and introduces students to the principles and practice of architecture and urban design. Contact hours: Up to 20 hours per week.

ARCH211 Architecture 3 (Part 1) 40cp

Assumed Knowledge: ARCH110 Architecture 1 (Part 1) or equivalent

This subject is the third year of the Bachelor of Science (Architecture) program and focuses on the design and development of buildings and urban spaces. Contact hours: Up to 20 hours per week.

ARCH212 Architecture 2 (Part 2) 40cp

Assumed Knowledge: ARCH211 Architecture 3 (Part 1) or equivalent

This subject is the second year of the Bachelor of Science (Architecture) program and introduces students to the principles and practice of architecture and urban design. Contact hours: Up to 20 hours per week.

ARCH311 Architecture (Part 1) 40cp

Assumed Knowledge: Nil

This subject is the first of a series of subjects in the Bachelor of Science (Architecture) program and introduces students to the principles and practice of architecture and urban design. Contact hours: Up to 20 hours per week.

ARCH312 Architecture (Part 2) 40cp

Assumed Knowledge: ARCH311 Architecture (Part 1) or equivalent

This subject is the second year of the Bachelor of Science (Architecture) program and focuses on the design and development of buildings and urban spaces. Contact hours: Up to 20 hours per week.

ARCH411 Architecture 3 (Part 1) 40cp

Assumed Knowledge: ARCH210 Architecture 2 (Part 2) or equivalent

This subject is the third year of the Bachelor of Science (Architecture) program and focuses on the design and development of buildings and urban spaces. Contact hours: Up to 20 hours per week.

ARCH412 Architecture 2 (Part 2) 40cp

Assumed Knowledge: ARCH411 Architecture 3 (Part 1) or equivalent

This subject is the second year of the Bachelor of Science (Architecture) program and focuses on the design and development of buildings and urban spaces. Contact hours: Up to 20 hours per week.

ARCH511 Architecture 3 (Part 1) 40cp

Assumed Knowledge: ARCH310 Architecture 2 (Part 2) or equivalent

This subject is the third year of the Bachelor of Science (Architecture) program and focuses on the design and development of buildings and urban spaces. Contact hours: Up to 20 hours per week.

ARCH512 Architecture 2 (Part 2) 40cp

Assumed Knowledge: ARCH511 Architecture 3 (Part 1) or equivalent

This subject is the second year of the Bachelor of Science (Architecture) program and focuses on the design and development of buildings and urban spaces. Contact hours: Up to 20 hours per week.

ARCH611 Architecture 3 (Part 1) 40cp

Assumed Knowledge: ARCH510 Architecture 2 (Part 2) or equivalent

This subject is the third year of the Bachelor of Science (Architecture) program and focuses on the design and development of buildings and urban spaces. Contact hours: Up to 20 hours per week.
ARCH 113 Architecture 5 (Part 1) 40cp

Assumed Knowledge: ARCH112 or equivalent

Students complete the major architectural design problem in Architecture 5 as the basis for their elective program of work in semester 2 within the theme of "Architectural Practice." This program is designed to allow each student to choose a design problem which best suits the individual's interests and likely context of future practice. The project is expected to be a demanding one, extending the areas of knowledge and skills developed over the previous years of study and allowing each student to present his or her knowledge and understanding in a comprehensive design.

Contact hours: Up to 20 hours per week

Location and Semester Details: Callaghan - Semester 2

ARCH 114 Architecture 5 (Part 2) 40cp

Assumed Knowledge: ARCH113

Students complete the major architectural design problem in Architecture 5 as the basis for their elective program of work in semester 2 within the theme of "Architectural Practice." This program is designed to allow each student to choose a design problem which best suits the individual's interests and likely context of future practice. The project is expected to be a demanding one, extending the areas of knowledge and skills developed over the previous years of study and allowing each student to present his or her knowledge and understanding in a comprehensive design.

Contact hours: Up to 20 hours per week

Location and Semester Details: Callaghan - Semester 2

ART117 Art Theory: Modernism 10cp

Assumed Knowledge: Nil

The core content of this subject is the theory of Modernism. However, previous courses in the Architectural Design Series have provided students with a critical understanding of the historical and theoretical development of modern architecture. This subject will provide students with an in-depth study of modern architecture and its influence on contemporary architecture.

Location and Semester Details: Callaghan - Semester 1

ART118 Postmodernism and After 10cp

Assumed Knowledge: Nil

This subject examines the ideas of modernism, postmodernism and their implications for contemporary architectural practice. It will examine the theories of leading figures in these movements and their impact on modern and postmodern architecture.

Location and Semester Details: Callaghan - Semester 2

ART 222 2D Art: Introductory Concepts and Techniques 10cp

Assumed Knowledge: As an introductory subject, no assumed knowledge applies.

Introduces students to the basic principles of design and drawing, including the use of line, shape, form, space and color. It will provide a foundation for further study in the visual arts.

Location and Semester Details: Callaghan - Semester 2

ART 230 3D Art-Form and Space 10cp

Assumed Knowledge: As an introductory subject, no assumed knowledge applies.

Introduces students to the principles of three-dimensional design, including the use of form and space in sculpture and architecture. It will provide a foundation for further study in the visual arts.

Location and Semester Details: Callaghan - Semester 2

ART 321 2D Art: Colour and Experimental Media 10cp

Assumed Knowledge: Successful completion of ART123 and ART224 (or equivalent)

Develops further the concepts of colour and visual expression introduced in ART123 and ART224. Students will develop their own visual identity and experiment with a range of media and techniques.

Location and Semester Details: Callaghan - Semester 1

ART 322 3D Art: Colour and Experimental Media 10cp

Assumed Knowledge: Successful completion of ART123 and ART224 (or equivalent)

Develops further the concepts of colour and visual expression introduced in ART123 and ART224. Students will develop their own visual identity and experiment with a range of media and techniques.

Location and Semester Details: Callaghan - Semester 1

ART105 Foundations in Creative Arts 10cp

Assumed Knowledge: Nil

This subject is designed for students enrolled in the Bachelor of Teaching/Bachelor of Fine Arts degree. It introduces students to the key concepts and practices in the fields of music, visual art, and drama. Students will explore the relationship between these disciplines and their role in education.

Contact hours: 40 weekly hours

Location and Semester Details: Callaghan - Semester 2

ART106 Foundations in Creative Arts for Childhood 10cp

Assumed Knowledge: Nil

Provides foundational studies in music, drama, and visual art for early childhood education. The subject is designed to provide students with an understanding of the philosophical and practical aspects of teaching these disciplines to young children.

Contact hours: 40 weekly hours

Location and Semester Details: Callaghan - Semester 2

ART241 Photomedia: Constructing with Light 10cp

Assumed Knowledge: Successful completion of ART240 or equivalent

Introduces students to the technical and creative skills required in the production of photomedia work. Students will develop techniques to create a range of photomedia images and gain an understanding of the historical, theoretical, and technical dimensions of the subject.

Contact hours: 1 hour lecture and 1 hour studio per week

Location and Semester Details: Callaghan - Semester 2

ART242 Photomedia: Studio to Bureau 10cp

Assumed Knowledge: Successful completion of ART140 and ART141 or equivalent

Introduces students to the role of the designer in the creative industry. Students will learn about the process of converting a design concept into a final product and develop skills in both digital and traditional printing processes.

Contact hours: 1 hour lecture and 2 hour studio per week

Location and Semester Details: Callaghan - Semester 1

ART243 Photomedia: Studio to Bureau 10cp

Assumed Knowledge: Successful completion of ART140 and ART141 or equivalent

Introduces students to the role of the designer in the creative industry. Students will learn about the process of converting a design concept into a final product and develop skills in both digital and traditional printing processes.

Contact hours: 1 hour lecture and 2 hour studio per week

Location and Semester Details: Callaghan - Semester 1

ART244 Photomedia: Studio to Bureau 10cp

Assumed Knowledge: Successful completion of ART140 and ART141 or equivalent

Introduces students to the role of the designer in the creative industry. Students will learn about the process of converting a design concept into a final product and develop skills in both digital and traditional printing processes.

Contact hours: 1 hour lecture and 2 hour studio per week

Location and Semester Details: Callaghan - Semester 1

ART304 Historical Perspectives on Photomedia 10cp

Assumed Knowledge: Equivalent to 20 credit points of 200 level Art Theory subjects

Examines the historical and cultural contexts of photomedia and its development throughout different periods of art history. Students will develop a critical understanding of the impact of historical and cultural contexts on the production and reception of photomedia.

Contact hours: 1 hour lecture and 1 hour tutorial per week

Location and Semester Details: Callaghan - Semester 2

ART305 The Arts in Health and Community 10cp

Assumed Knowledge: Equivalent to 20 credit points of 200 level Art Theory subjects

Examines the role of the arts in health and community settings, including the impact of art on health outcomes, mental well-being, and community engagement. Students will develop a critical understanding of the social, cultural, and emotional impact of the arts in health and community contexts.

Contact hours: 1 hour lecture and 1 hour tutorial per week

Location and Semester Details: Callaghan - Semester 2

ART306 Drawing for Double Degree Students 10cp

Assumed Knowledge: Successful completion of 100 level studio subjects

Introduces students to the principles and techniques of drawing, focusing on the development of observational and creative skills. Students will learn to use different drawing materials and techniques, and develop an understanding of the relationship between drawing and other visual arts disciplines.

Contact hours: 1 hour lecture and 1 hour tutorial per week

Location and Semester Details: Callaghan - Semester 2

ART307 Theories of Art and the Therapeutic 10cp

Assumed Knowledge: Equivalent to 20 credit points of 200 level Art Theory subjects

Introduces students to the theoretical approaches to the use of art in therapeutic contexts. Students will learn about the role of art in mental health, educational, and social care settings, and develop an understanding of the ethical and professional issues involved in the use of art therapy.

Contact hours: 1 hour lecture and 1 hour tutorial per week

Location and Semester Details: Callaghan - Semester 2

ART310 The Arts in Health and Community 10cp

Assumed Knowledge: Equivalent to 20 credit points of 200 level Art Theory subjects

Examines the role of the arts in health and community settings, including the impact of art on health outcomes, mental well-being, and community engagement. Students will develop a critical understanding of the social, cultural, and emotional impact of the arts in health and community contexts.

Contact hours: 1 hour lecture and 1 hour tutorial per week

Location and Semester Details: Callaghan - Semester 2

ART405 Foundations in Creative Arts 10cp

Assumed Knowledge: Nil

This subject is designed for students enrolled in the Bachelor of Teaching/Bachelor of Fine Arts degree. It introduces students to the key concepts and practices in the fields of music, visual art, and drama. Students will explore the relationship between these disciplines and their role in education.

Contact hours: 40 weekly hours

Location and Semester Details: Callaghan - Semester 2

ART406 Foundations in Creative Arts for Childhood 10cp

Assumed Knowledge: Nil

Provides foundational studies in music, drama, and visual art for early childhood education. The subject is designed to provide students with an understanding of the philosophical and practical aspects of teaching these disciplines to young children.

Contact hours: 40 weekly hours

Location and Semester Details: Callaghan - Semester 2

ART114 Photomedia: Introductory Photomedia 10cp

Assumed Knowledge: Nil

Introduces students to the range of processes and techniques of Photomedia, including the use of digital and traditional printing processes. Students will learn about the fundamental concepts and principles of Photomedia and develop an understanding of the role of Photomedia in contemporary art practice.

Location and Semester Details: Callaghan - Semester 1

ART115 Photomedia: Advanced Photomedia 10cp

Assumed Knowledge: Successful completion of Photomedia 2 or equivalent

Introduces students to the advanced processes and techniques of Photomedia, including the use of digital and traditional printing processes. Students will learn about the role of Photomedia in contemporary art practice and develop skills in the use of a range of Photomedia tools and techniques.

Location and Semester Details: Callaghan - Semester 2

ART116 Photomedia: Technical and Conceptual Photomedia 10cp

Assumed Knowledge: Successful completion of Photomedia 2 or equivalent

Introduces students to the technical and conceptual aspects of Photomedia, including the use of digital and traditional printing processes. Students will learn about the role of Photomedia in contemporary art practice and develop skills in the use of a range of Photomedia tools and techniques.

Location and Semester Details: Callaghan - Semester 2

ART117 Photomedia: Design and Critique Photomedia 10cp

Assumed Knowledge: Successful completion of Photomedia 2 or equivalent

Introduces students to the role of the designer in the creative industry. Students will learn about the process of converting a design concept into a final product and develop skills in both digital and traditional printing processes.

Contact hours: 1 hour lecture and 2 hour studio per week

Location and Semester Details: Callaghan - Semester 1
To facilitate access to the arts, students are encouraged to develop a critical awareness of the ethical and philosophical concerns of their chosen field. This awareness is developed through independent research, critical thinking, and the application of ethical and philosophical concepts to their work. Contact hours: 3 hours per week.

ART345 Applied Photomedia

Assumed Knowledge: Successful completion of ART320 and ART321 or equivalent

Students will practice in a hybrid photomedia with traditional and new technology. In this interactive environment, students will be exposed to a variety of techniques and methods that will enable the production of high-quality work and foster creativity. Contact hours: 3 hours per week.

ART346 Hybrid Photomedia

Assumed Knowledge: ART314 and ART315 or equivalent

Students will work in a hybrid photomedia with traditional and new technology. They will be exposed to a variety of techniques and methods that will enable the production of high-quality work and foster creativity. Contact hours: 3 hours per week.

ART347 Traditional Photomedia

Assumed Knowledge: ART314 and ART315 or equivalent

Students will work in traditional photomedia with traditional and new technology. They will be exposed to a variety of techniques and methods that will enable the production of high-quality work and foster creativity. Contact hours: 3 hours per week.

ART348 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.

ART349 Experimental Photomedia

Assumed Knowledge: Successful completion of ART311 and ART312 or equivalent

Students will be introduced to the use of experimental photomedia techniques and methods. They will be encouraged to experiment with different techniques and materials in order to create a unique and original photomedia artwork. Contact hours: 3 hours per week.

ART350 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.

ART351 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.

ART352 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.

ART353 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.

ART354 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.

ART355 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.

ART356 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.

ART357 Digital Photomedia

Assumed Knowledge: Successful completion of ART301 and ART310 or equivalent

Students will be introduced to the use of digital media in the creation of photomedia artworks. They will learn basic principles of digital photography and develop their skills in the use of digital cameras and software. Contact hours: 3 hours per week.
AVIA124A Principles of Flying Practice 1 (Part A)

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Assumed Knowledge: Aeronautical subjects, and the requirements (as covered in AVIA124A). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

Subject is a Part of a multi-term sequence. Part A must be completed before undertaking Part B.

AVIA124B Principles of Flying Practice 1 (Part B)

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Assumed Knowledge: Aeronautical subjects, and the requirements (as covered in AVIA124A). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

Subject is a Part of a multi-term sequence. Part A must be completed before undertaking Part B.

AVIA225 Group Interaction & Multi-Crew

Assumed Knowledge: Knowledge of human performance and limitations to the standard of the CASA cpl syllabus requirements (as covered in AVIA226).

AVIA235A Air Transport Systems (Part A)

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Assumed Knowledge: Aeronautical subjects, and the requirements (as covered in AVIA124A). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

Subject is a Part of a multi-term sequence. Part A must be completed before undertaking Part B.

AVIA235B Air Transport Systems (Part B)

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Assumed Knowledge: Aeronautical subjects, and the requirements (as covered in AVIA124A). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

Subject is a Part of a multi-term sequence. Part A must be completed before undertaking Part B.

AVIA238A Air Transport Navigation 10cp

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Assumed Knowledge: Aeronautical subjects, and the requirements (as covered in AVIA124A). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

Subject is a Part of a multi-term sequence. Part A must be completed before undertaking Part B.

AVIA239A Air Transport Aircraft Performance 10cp

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Assumed Knowledge: Aeronautical subjects, and the requirements (as covered in AVIA124A). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

Subject is a Part of a multi-term sequence. Part A must be completed before undertaking Part B.

AVIA239B Air Transport Aircraft Performance 10cp

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Assumed Knowledge: Aeronautical subjects, and the requirements (as covered in AVIA124A). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

Subject is a Part of a multi-term sequence. Part A must be completed before undertaking Part B.

AVIA241A Directed Study (5cp)

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Assumed Knowledge: Aeronautical subjects, and the requirements (as covered in AVIA124A). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

Subject is a Part of a multi-term sequence. Part A must be completed before undertaking Part B.
A VIA314B Directed Study (Part B) 5cp
Assumed Knowledge: Knowledge and experience with email and applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

This subject offers an opportunity for students to undertake a project in an academic discipline that is outside the normal course offering. The project is supervised by a member of staff in the discipline of the student's choice. Students are required to complete a work plan, a detailed proposal, and a final report. The subject is assessed on an individual basis.

A VIA320 International Aeronautical Meteorology 10cp
Assumed Knowledge: Completion of the course BCHM305, Biochemistry. It is also assumed that students have an understanding of atmospheric science and the general characteristics of the atmosphere.

This subject provides an introduction to the principles of aeronautical meteorology, with a focus on weather analysis and forecasting, atmospheric processes, and the impact of weather on aviation safety.

A VIA330 Air Transport Flight Training 10cp
Assumed Knowledge: Completion of the course AVIA230, Aircraft Flight Test.

This subject offers an introduction to the principles of air transport flight training, with a focus on the role of the flight instructor and the development of flight training methodologies.

A VIA335 Satellite Systems & Air Traffic Management 10cp
Assumed Knowledge: Completion of the course AVL330, Air Traffic Control.

This subject provides an introduction to the principles of satellite systems and air traffic management, with a focus on the role of satellite systems in air traffic management and the implications of emerging technologies.

A VIA336 Flight Control Dynamics 10cp
Assumed Knowledge: Knowledge and competence with word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

This subject offers an opportunity for students to undertake a project in an academic discipline that is outside the normal course offering. The project is supervised by a member of staff in the discipline of the student's choice. Students are required to complete a work plan, a detailed proposal, and a final report. The subject is assessed on an individual basis.

A VIA340 Human Factors and Aviation Psychology 10cp
Assumed Knowledge: Knowledge of human performance and limitation as covered in AVIA200, Introduction to Aviation Psychology.

This subject provides an introduction to the principles of human factors and aviation psychology, with a focus on the role of human factors and aviation psychology in aviation safety.
**BEHM200C Foundation Studies in Health and Physical Education**
10cp

Assumed Knowledge: Students come to this course with a variety of academic and life experiences. While some students will have studied the HSC 2 Unit Health and Physical Education subject, the majority, including mature-age students, will not. Thus we have taken the Year 10 PDHPE syllabus as the starting point for this subject. We respect and value the different experiences that mature-age students bring to the course and do not feel they are disadvantaged by this decision.

Provides students with an understanding of the issues and concepts which are important in the health and physical education fields. It provides a foundation and context for future study in education by examining relationships between health, education, teaching, health, and physical activity. This subject will introduce future teachers to contemporary health and physical education issues that are relevant to primary school children; approaches to health education, ill health prevention, and promotion; and the promotion of physical activity both written and oral forms.

**BEHM30A4Health IIIA (Part B)**
Assumed Knowledge: Part A

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Introduces students to the complex interplay of factors which underpin children’s health and health education issues in senior secondary school. The subject aims to enhance professional development and capacity to contribute to the well-being of school children.

Location and Semester Details: Callaghan - Semester 1

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**BIOL101 Introduction to Cell & Molecular Biology**
10cp

Assumed Knowledge: HSC Maths and Chemistry desirable

Provides an introduction to the basic principles of cell and molecular biology and appropriate for students with little prior exposure to biology. The themes are

1. The origins of life
2. Cell as the basic unit of life
3. The heredity of characters and their inheritance
4. The interdependence of life with the environment

In conjunction with BIOL 102 the subject is designed to offer students an understanding of basic cell processes, and to develop an awareness of the diversity of cells and the development of their components, explaining the basis of division, basic cell processes, the biology of the life cycle, and survival strategies. These themes are explored and developed in the 200 and 300 level biology subjects.

Note to count with BIOL111, BIOL112, NURS101C, AUS102, BIOL103, 190878, 190879, 190651, 190652 or 190937.

Contact hours: 2 lecture hours, 3 hours laboratory sessions per week

Location and Semester Details: Callaghan - Semester 1

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**BIOL102 Introduction to Cell & Molecular Biology**
10cp

Assumed Knowledge: Chemistry and Maths at HSC level desired

The course is designed to provide a basic understanding of basic cell processes and the interactions of cells with their environment. In conjunction with BIOL 101 the course is designed to offer students an understanding of the basic cell processes that will allow them to be more informed and capable in any future career or study which will involve cell biology and its role in the biological sciences.

The course themes are

1. The origin of life
2. The cell as the basic unit of life
3. The cell cycle of structure and function of the cell
4. The interactions of cells with their environment

Location and Semester Details: Callaghan - Semester 1

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**BIOL103 Biological Data Evaluation**
10cp

Assumed Knowledge: 2 unit mathematics recommended

This subject is designed to develop an understanding of the basic scientific process and data analysis.

This subject will cover biological data from the scientific method and critical thinking. It will also cover the basic statistical and probability calculations.

Details: Callaghan - Semester 2

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**BIOL201 Biochemistry**
10cp

Assumed Knowledge: CHEM101, BIOL101 and BIOL102

This subject introduces students to the diversity of biological molecules of major importance in living systems and how they relate to the functions of living organisms. It focuses on the properties and interactions of the major classes of biological molecules - carbohydrates, lipids, proteins and nucleic acids - and the general structures and functional properties of enzymes and other macromolecules. It also examines the role of biochemistry in a variety of biological processes, including the metabolism of energy, the development of the organism, and the functions of the immune system.

Details: Callaghan - Semester 2

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**BIOL202 Animal Physiology and Development**
10cp

Assumed Knowledge: 4 unit HSC Biology and 2 unit HSC Mathematics desirable

This subject introduces students to the diversity of biological molecules of major importance in living systems and how they relate to the functions of living organisms. It focuses on the properties and interactions of the major classes of biological molecules - carbohydrates, lipids, proteins and nucleic acids - and the general structures and functional properties of enzymes and other macromolecules. It also examines the role of biochemistry in a variety of biological processes, including the metabolism of energy, the development of the organism, and the functions of the immune system.

Details: Callaghan - Semester 2
An in-depth understanding of cell and molecular biology at least second year level

The course will begin with a lecture on differences between innate and acquired immunity. Specific emphasis will be given to the role of cytokines and the importance of immune cell signaling pathways. The role of the immune system in maintaining homeostasis and in the context of disease will be examined through case studies. Students will gain an understanding of the immune system and its role in maintaining health and in the context of disease.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL107 Cell Biology

An introduction to the study of the cell, including cell structure, function, and development. The course covers the basic principles of cell biology, including cell division, cell signaling, and the role of cells in maintaining homeostasis.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL110 Microbiology

An introduction to the study of microorganisms, including bacterial, fungal, viral, and parasitic infections. The course covers the basic principles of microbiology, including the structure and function of microorganisms, the role of microorganisms in disease, and the methods used to study and control microorganisms.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL115 Environmental Science

An introduction to the study of the environment, including the physical and biological factors that influence the earth's systems. The course covers the basic principles of environmental science, including the role of humans in shaping the environment, and the methods used to study and manage environmental problems.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL121 Plant Development

An introduction to the study of plant development, including the mechanics of plant growth and development. The course covers the basic principles of plant development, including the role of hormones in regulating growth and development, and the methods used to study plant development.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL122 Animal Physiology

An introduction to the study of animal physiology, including the basic principles of animal biology and the role of animal physiology in maintaining homeostasis.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL123 Environmental Biology

An introduction to the study of environmental biology, including the role of biology in understanding and managing environmental problems. The course covers the basic principles of environmental biology, including the role of biology in understanding and managing environmental problems.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL125 Microbiological Genomics

An introduction to the study of microbiology and genomics, including the role of genomics in understanding the function of bacteria and other microorganisms. The course covers the basic principles of microbial genomics, including the role of genomics in understanding the function of bacteria and other microorganisms.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL126 Microbial Ecology

An introduction to the study of microbial ecology, including the role of microorganisms in shaping the environment. The course covers the basic principles of microbial ecology, including the role of microorganisms in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL127 Molecular Genetics

An introduction to the study of molecular genetics, including the role of genetics in understanding the function of genes and the role of genetics in understanding the function of organisms. The course covers the basic principles of molecular genetics, including the role of genetics in understanding the function of genes and the role of genetics in understanding the function of organisms.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL128 Microbial Diversity

An introduction to the study of microbial diversity, including the role of diversity in shaping the environment. The course covers the basic principles of microbial diversity, including the role of diversity in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL129 Biotechnology

An introduction to the study of biotechnology, including the role of biotechnology in shaping the environment. The course covers the basic principles of biotechnology, including the role of biotechnology in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL130 Molecular Biology

An introduction to the study of molecular biology, including the role of biology in understanding and managing environmental problems. The course covers the basic principles of molecular biology, including the role of biology in understanding and managing environmental problems.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL131 Population Genetics

An introduction to the study of population genetics, including the role of genetics in understanding the function of populations and the role of genetics in understanding the function of organisms. The course covers the basic principles of population genetics, including the role of genetics in understanding the function of populations and the role of genetics in understanding the function of organisms.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL132 Genetics

An introduction to the study of genetics, including the role of genetics in understanding the function of organisms and the role of genetics in understanding the function of populations. The course covers the basic principles of genetics, including the role of genetics in understanding the function of organisms and the role of genetics in understanding the function of populations.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL133 Molecular Biology

An introduction to the study of molecular biology, including the role of biology in understanding and managing environmental problems. The course covers the basic principles of molecular biology, including the role of biology in understanding and managing environmental problems.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL134 Biotechnology

An introduction to the study of biotechnology, including the role of biotechnology in shaping the environment. The course covers the basic principles of biotechnology, including the role of biotechnology in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL135 Environmental Biology

An introduction to the study of environmental biology, including the role of biology in understanding and managing environmental problems. The course covers the basic principles of environmental biology, including the role of biology in understanding and managing environmental problems.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL136 Microbial Ecology

An introduction to the study of microbial ecology, including the role of microorganisms in shaping the environment. The course covers the basic principles of microbial ecology, including the role of microorganisms in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL137 Molecular Genetics

An introduction to the study of molecular genetics, including the role of genetics in understanding the function of genes and the role of genetics in understanding the function of organisms. The course covers the basic principles of molecular genetics, including the role of genetics in understanding the function of genes and the role of genetics in understanding the function of organisms.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL138 Microbial Diversity

An introduction to the study of microbial diversity, including the role of diversity in shaping the environment. The course covers the basic principles of microbial diversity, including the role of diversity in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL139 Biotechnology

An introduction to the study of biotechnology, including the role of biotechnology in shaping the environment. The course covers the basic principles of biotechnology, including the role of biotechnology in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL140 Molecular Biology

An introduction to the study of molecular biology, including the role of biology in understanding and managing environmental problems. The course covers the basic principles of molecular biology, including the role of biology in understanding and managing environmental problems.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL141 Population Genetics

An introduction to the study of population genetics, including the role of genetics in understanding the function of populations and the role of genetics in understanding the function of organisms. The course covers the basic principles of population genetics, including the role of genetics in understanding the function of populations and the role of genetics in understanding the function of organisms.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL142 Genetics

An introduction to the study of genetics, including the role of genetics in understanding the function of organisms and the role of genetics in understanding the function of populations. The course covers the basic principles of genetics, including the role of genetics in understanding the function of organisms and the role of genetics in understanding the function of populations.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL143 Biotechnology

An introduction to the study of biotechnology, including the role of biotechnology in shaping the environment. The course covers the basic principles of biotechnology, including the role of biotechnology in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL144 Molecular Biology

An introduction to the study of molecular biology, including the role of biology in understanding and managing environmental problems. The course covers the basic principles of molecular biology, including the role of biology in understanding and managing environmental problems.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL145 Population Genetics

An introduction to the study of population genetics, including the role of genetics in understanding the function of populations and the role of genetics in understanding the function of organisms. The course covers the basic principles of population genetics, including the role of genetics in understanding the function of populations and the role of genetics in understanding the function of organisms.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL146 Genetics

An introduction to the study of genetics, including the role of genetics in understanding the function of organisms and the role of genetics in understanding the function of populations. The course covers the basic principles of genetics, including the role of genetics in understanding the function of organisms and the role of genetics in understanding the function of populations.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL147 Biotechnology

An introduction to the study of biotechnology, including the role of biotechnology in shaping the environment. The course covers the basic principles of biotechnology, including the role of biotechnology in shaping the environment.

Contact hours: 3 hours lecture, 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL148 Molecular Biology

An introduction to the study of molecular biology, including the role of biology in understanding and managing environmental problems. The course covers the basic principles of molecular biology, including the role of biology in understanding and managing environmental problems.
BLDG115 Written Communication 2 5cp

Assumed Knowledge: BLDG114

This subject is available to off-site students only.

Aims to develop a competence in technical and business writing. Topics include: imperatives, numeric sentences, academic prose, non-numeric sentences, sentence structure, and company writing.

BLDG116 Introduction to Computers 5cp

Assumed Knowledge: Nil

This subject is available to off-site students only.

Introduces the basic principles of computers, computer hardware and software, basic operation of computer systems, and computer programming.

BLDG118 Structures 1 5cp

Assumed Knowledge: Nil

This subject is available to off-site students only.

Provides an understanding of the basic concepts and theory in structures and the ability to use a computer to simulate and analyze structural systems.

BLDG120 Building Services 2 5cp

Assumed Knowledge: BLDG121

This subject is available to off-site students only.

Deals with the internal design and installation of water and drainage systems, including heating, ventilation, and air conditioning, and is an introduction to the principles of design and installation of water and drainage systems for buildings.

BLDG121 Building 121 25cp

Assumed Knowledge: Nil

Introductory to building services and theory

BLDG128 Building 122 25cp

Assumed Knowledge: Concurrent assumed knowledge: BLDG121

Examines the process of building design. Students gain an appreciation of the technical, economic, and environmental considerations fundamental to the procurement of a new building.

BLDG129 Building 123 25cp

Assumed Knowledge: BLDG121, BLDG122

Considers the economic, financial, technical, and environmental considerations fundamental to the procurement of a new building, including the preparation of preliminary cost estimates, the development of a building design, and the procurement of tenders.

BLDG130 Building 130 25cp

Assumed Knowledge: BLDG121, BLDG122, BLDG123

Deals with the analysis and design of structural systems, including the selection of appropriate materials and the development of structural design principles and techniques. It covers the determination of loads and their effects on structures, the selection of appropriate materials, and the development of structural design principles.

BLDG131 Building 131 25cp

Assumed Knowledge: Nil

Examines the structural design of buildings, including the analysis and design of beams, columns, and foundations.

BLDG132 Building 132 25cp

Assumed Knowledge: BLDG121, BLDG122

Deals with the selection of appropriate materials and the development of structural design principles, including the determination of loads and their effects on structures, the selection of appropriate materials, and the development of structural design principles.

BLDG133 Building 133 25cp

Assumed Knowledge: Nil

Examines the structural design of buildings, including the analysis and design of beams, columns, and foundations.

BLDG134 Building 134 25cp

Assumed Knowledge: BLDG121, BLDG122

Deals with the selection of appropriate materials and the development of structural design principles, including the determination of loads and their effects on structures, the selection of appropriate materials, and the development of structural design principles.
Bldg218 Management 7 (Construction Technology) 5cp

Assumed Knowledge: Nil

This subject is available to off-shore students only.

Aims to create an understanding of the various processes of project procurement and the roles of the head contractor, the manager, and the project manager. Topics include: construction technology, methods and techniques, the use of computers and other equipment for construction, and various systems of formwork, such as high rise building construction. Topics include: heavy plant equipment used for excavation, earthmoving, and grading; electrical equipment used for power generation and distribution; and industrial Hydraulics: hose, valves, and pumps; concrete pumps; and general purposes of the civil engineering profession. Aims to provide a comprehensive overview of the design and construction management process. Prerequisites: Concurrent assumed knowledge: Bldg201 and Bldg203. Contacts:Nil.

Bldg222 Building 222 25cp

Assumed Knowledge: Nil

Aims to create an understanding of the various processes of project procurement and the roles of the head contractor, the manager, and the project manager. Topics include: construction technology, methods and techniques, the use of computers and other equipment for construction, and various systems of formwork, such as high rise building construction. Topics include: heavy plant equipment used for excavation, earthmoving, and grading; electrical equipment used for power generation and distribution; and industrial Hydraulics: hose, valves, and pumps; concrete pumps; and general purposes of the civil engineering profession. Aims to provide a comprehensive overview of the design and construction management process. Prerequisites: Concurrent assumed knowledge: Bldg201 and Bldg203. Contacts:Nil.

Bldg223 Building 223 15cp

Assumed Knowledge: Concurrent assumed knowledge: Bldg221

Aims to provide an understanding of the various processes of project procurement and the roles of the head contractor, the manager, and the project manager. Topics include: construction technology, methods and techniques, the use of computers and other equipment for construction, and various systems of formwork, such as high rise building construction. Topics include: heavy plant equipment used for excavation, earthmoving, and grading; electrical equipment used for power generation and distribution; and industrial Hydraulics: hose, valves, and pumps; concrete pumps; and general purposes of the civil engineering profession. Aims to provide a comprehensive overview of the design and construction management process. Prerequisites: Concurrent assumed knowledge: Bldg201 and Bldg203. Contacts:Nil.

Bldg224 Building 224 25cp

Assumed Knowledge: Concurrent assumed knowledge: Bldg221

Aims to provide an understanding of the various processes of project procurement and the roles of the head contractor, the manager, and the project manager. Topics include: construction technology, methods and techniques, the use of computers and other equipment for construction, and various systems of formwork, such as high rise building construction. Topics include: heavy plant equipment used for excavation, earthmoving, and grading; electrical equipment used for power generation and distribution; and industrial Hydraulics: hose, valves, and pumps; concrete pumps; and general purposes of the civil engineering profession. Aims to provide a comprehensive overview of the design and construction management process. Prerequisites: Concurrent assumed knowledge: Bldg201 and Bldg203. Contacts:Nil.

Bldg230 Building Materials 3 5cp

Assumed Knowledge: Nil

This subject is available to off-shore students only.

Aims to provide an understanding of the various processes of project procurement and the roles of the head contractor, the manager, and the project manager. Topics include: construction technology, methods and techniques, the use of computers and other equipment for construction, and various systems of formwork, such as high rise building construction. Topics include: heavy plant equipment used for excavation, earthmoving, and grading; electrical equipment used for power generation and distribution; and industrial Hydraulics: hose, valves, and pumps; concrete pumps; and general purposes of the civil engineering profession. Aims to provide a comprehensive overview of the design and construction management process. Prerequisites: Concurrent assumed knowledge: Bldg201 and Bldg203. Contacts:Nil.

Bldg233 Building 233 15cp

Assumed Knowledge: Concurrent assumed knowledge: Bldg222

Aims to provide an understanding of the various processes of project procurement and the roles of the head contractor, the manager, and the project manager. Topics include: construction technology, methods and techniques, the use of computers and other equipment for construction, and various systems of formwork, such as high rise building construction. Topics include: heavy plant equipment used for excavation, earthmoving, and grading; electrical equipment used for power generation and distribution; and industrial Hydraulics: hose, valves, and pumps; concrete pumps; and general purposes of the civil engineering profession. Aims to provide a comprehensive overview of the design and construction management process. Prerequisites: Concurrent assumed knowledge: Bldg201 and Bldg203. Contacts:Nil.

Bldg236 Building 236 25cp

Assumed Knowledge: Concurrent assumed knowledge: Bldg223

Aims to provide an understanding of the various processes of project procurement and the roles of the head contractor, the manager, and the project manager. Topics include: construction technology, methods and techniques, the use of computers and other equipment for construction, and various systems of formwork, such as high rise building construction. Topics include: heavy plant equipment used for excavation, earthmoving, and grading; electrical equipment used for power generation and distribution; and industrial Hydraulics: hose, valves, and pumps; concrete pumps; and general purposes of the civil engineering profession. Aims to provide a comprehensive overview of the design and construction management process. Prerequisites: Concurrent assumed knowledge: Bldg201 and Bldg203. Contacts:Nil.
BUS185 Foundations of Accounting Practice 10cp
Assumed Knowledge: None
Concentrates on the collection and evaluation of reliable information to help users make decisions, particularly related to financial transactions and accounting principles. It also discusses the regulatory environment.
Contact hours: 3-4 hours per week
Location and Semester Details: Central Coast - Semester 2

BUS250 Corporate Significance of Human Resources 10cp
Assumed Knowledge: This unit is only available to candidates undertaking the honours program. It introduces students to the human aspects of running a business. Topics covered include recruitment and selection, employee motivation, performance appraisal, and work-life balance.
Contact hours: 3-4 hours per week
Location and Semester Details: Central Coast - Semester 2

BUS255 Leadership in Contemporary Organisations 10cp
Assumed Knowledge: A good grasp of the basic principles of management and organisations is desirable, with a reasonable understanding of introductory psychology or sociology.
Examines the role of leadership, theory and practice in modern organisations. It covers topics such as leadership styles, decision making, and the impact of organisational culture.
Contact hours: 3-4 hours per week
Location and Semester Details: Central Coast - Semester 2

BUS260 The Integrative Marketer 10cp
Assumed Knowledge: BUS101 The New Marketer
Examines the role of the marketing manager in an integrated marketing environment. It covers topics such as marketing strategy, market segmentation, and the role of marketing in the organisation.
Contact hours: 3-4 hours per week
Location and Semester Details: Central Coast - Semester 2

BUS270 Managing Marketing Messages 10cp
Assumed Knowledge: BUS156 The New Marketer
Examines the role of marketing messages in building brand awareness and affecting consumer behaviour.
Contact hours: 3-4 hours per week
Location and Semester Details: Central Coast - Semester 2

BUS275 Marketing Communications 10cp
Assumed Knowledge: BUS156 The New Marketer, BUS260 The Integrative Marketer
Examines the role of marketing communications in creating and maintaining customer relationships.
Contact hours: 3-4 hours per week
Location and Semester Details: Central Coast - Semester 2

BUS281 Creating Customer Satisfaction 10cp
Assumed Knowledge: BUS156 The New Marketer, BUS260 The Integrative Marketer
Examines the role of marketing communications in creating and maintaining customer relationships.
Contact hours: 3-4 hours per week
Location and Semester Details: Central Coast - Semester 2

BUS300 Contemporary Social and Club Sport 10cp
Assumed Knowledge: None
Examines the role of sport in society and the impact of social and cultural factors on the development of contemporary social and club sport.
Contact hours: 2-3 hours per week
Location and Semester Details: Central Coast - Semester 2

BUS301 Learning in Organisations: Theory and People in the Workplace 10cp
Examines the role of learning in organisations and the impact of people in the workplace.
Contact hours: 2-3 hours per week
Location and Semester Details: Central Coast - Semester 2
BUS240 Information Systems Development 10cp
Assumed Knowledge: BUS5109 Electronic Business
Addresses the techniques and tools used to construct medium-sized systems, especially those relating to electronic business. It includes studies of business applications, including decision support with information systems professionals.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

BUS335 Current Issues in Accounting and Finance 10cp
Assumed Knowledge: BUS5255 The Regulatory Environment of Business
Exposes students to the practical issues of auditing, accounting and financial reporting. It will draw upon current literature pertaining to these areas, and use real world case studies that will illustrate the relevance of such issues to the business community both nationally and internationally.
Not available in 2001.
Contact hours: 2 hours per week.
Location and Semester Details: Central Coast - Semester 1

BUS342 Global Challenge and Change 10cp
Assumed Knowledge: A knowledge of basic management principles and practices would be an advantage, as would a knowledge of international business.
Examines the variety of ways in which the process of change can be better understood and implemented in the organisational setting. The subject involves an analysis of the concept of globalization, analysing the drives behind the internationalisation of business, and their subsequent impact on social and political structures. Diagnostic models and theories are evaluated in terms of their contribution to understanding contemporary organisational effectiveness, and emerging organisational forms are assessed in terms of their impact on the social and political order of the immediate future. The major mode of delivery for this subject is electronic text, with detailed lecture material, exercises and assignments available to distance students.
This subject is offered both on campus and by distance learning mode.
Contact hours: 2-3 hours per week.
Location and Semester Details: Central Coast - Semester 1

CEBE21A Epidemiology (Part A) 10cp
Assumed Knowledge: Three year approved degree program
The subject is part of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.
Examines the basic concepts of epidemiology, the study of the distribution and determinants of disease within populations, and the application of this knowledge to the evaluation and control of health problems in the community.
Contact hours: 2 hours per week.
Location and Semester Details: Central Coast - Semester 1

CEBE21B Epidemiology (Part B) 10cp
Assumed Knowledge: Three year approved degree program
The subject is part of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Examines the basic concepts of epidemiology, the study of the distribution and determinants of disease within populations, and the application of this knowledge to the evaluation and control of health problems in the community.
Contact hours: 2 hours per week.
Location and Semester Details: Central Coast - Semester 1

CHEE191 Industrial Experience 10cp
Assumed Knowledge: Nil
Chemical engineering students with 3rd-angle projection; demonstration workshops (in the laboratory) and workshops, to strengthen and broaden their understanding of the chemical engineering principles, and to improve their ability to apply these principles. Students are recommended to have completed courses in Mathematics and Physics, and to have a sound understanding of the chemical engineering principles.
Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 2

CHEE192 Consulting and Design Laboratory 10cp
Assumed Knowledge: CHEE102 or CHEE103
Students are provided with an introduction to computer aided design (CAD), and an understanding of the design process. They are also given an introduction to computer aided design (CAD). Students are expected to have completed courses in Mathematics and Physics, and to have a sound understanding of the chemical engineering principles.
Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 2

CHEE111 Introduction to Process Industries 5cp
Assumed Knowledge: Nil
This subject is available to only part time candidates, with full time, responsible employment in an industry relevant to chemical engineering.
Contact hours: 2 hours per week.
Location and Semester Details: Callaghan - Semester 2
CHEE193 Industrial Experience

Assumed Knowledge: Must be engaged in a placement or practice scheme.

Semester 1

Described to recognise the importance of and gain experience in a placement or practice scheme, which will provide work experience for industrial and professional careers.

Location: Semester Details: Callaghan - Semester 1 and 2

CHEE194 Industrial Experience

Assumed Knowledge: Must be engaged in a placement scheme.

Semester 1

Described to recognise the importance of and gain experience in a placement or practice scheme, which will provide work experience for industrial and professional careers.

Location: Semester Details: Callaghan - Semester 1 and 2

CHEE241 Design Principles

Assumed Knowledge: Nil

10cp

Introduces second year students to the fundamentals necessary to design simple structures, and select suitable materials of construction. The subject also provides an introduction to the principles of joint design, and short-cut techniques for obtaining design information. In this part of the subject, the purpose is to apply skills gained from the first part and other sections of the course.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1 and 2

CHEE402 Chemical Engineering Computation 10cp

Assumed Knowledge: An understanding of calculus at the level of MATH111 and MATH112

Introduces students to mathematical methods for solving chemical engineering problems, which are also applied to the design of chemical equipment and programming software, which may be used to solve chemical engineering design and prediction problems.

Reiuest Elective or Transition Subject: contact Course Coordinator before enrolling
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1 and 2

CHEE250 Coal Preparation

Assumed Knowledge: CHEE112, CHEE111

5cp

Described to provide students with a basic understanding of the coal preparation process. The following topics are covered: coal mining, preparation, and transport; preparation plant design; the preparation process; crushing and screening; washability testing; and process control and monitoring.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

CHEE265 Heat Transfer

Assumed Knowledge: CHEE111

5cp

It is recommended that CHEE251 or CHEE266 is taken simultaneously with CHEE265

Provides students with a basic understanding of the fundamentals of heat transfer, and gives some practical aspects of heat transfer problems, and skills in the use of heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE266 Energy and Extractive Processes

Assumed Knowledge: CHEE111

10cp

Examines the principles of energy and extractive processes, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE267 Mass Transfer

Assumed Knowledge: CHEE111

10cp

Described to provide students with an understanding of the principles of mass transfer, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

CHEE268 Fluid Mechanics

Assumed Knowledge: CHEE111

5cp

It is recommended that CHEE251 or CHEE266 is taken simultaneously with CHEE268

Described to provide students with a basic understanding of fluid mechanics, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

CHEE269 Heat Transfer and Energy Systems 10cp

Assumed Knowledge: CHEE115

Companies two separate topics, heat transfer and energy systems. The subject presents an overview of the fundamentals of heat transfer, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CHEE291 Chemical Engineering Laboratory 5cp

Assumed Knowledge: CHEE251, CHEE266 or CHEE268 is taken simultaneously with CHEE291

Described to provide an understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE292 Environmental Process Engineering

Assumed Knowledge: CHEE115

10cp

Described to provide students with a basic understanding of environmental process engineering, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE295 Chemical Engineering Laboratory

Assumed Knowledge: CHEE251, CHEE266 or CHEE268 is taken simultaneously with CHEE295

Described to provide an understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE296 Process Engineering

Assumed Knowledge: CHEE115

10cp

Described to provide students with a basic understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE297 Microelectronic Devices

Assumed Knowledge: CHEE115

10cp

Described to provide students with a basic understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE298 Digital Signal Processing

Assumed Knowledge: CHEE115

10cp

Described to provide students with a basic understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE299 Electrical and Electronic Engineering

Assumed Knowledge: CHEE115

10cp

Described to provide students with a basic understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE300 Chemical Engineering Laboratory

Assumed Knowledge: CHEE251, CHEE266 or CHEE268 is taken simultaneously with CHEE300

Described to provide an understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE310 Chemical Engineering Laboratory

Assumed Knowledge: CHEE251, CHEE266 or CHEE268 is taken simultaneously with CHEE310

Described to provide an understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE311 Chemical Engineering Laboratory

Assumed Knowledge: CHEE251, CHEE266 or CHEE268 is taken simultaneously with CHEE311

Described to provide an understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CHEE312 Chemical Engineering Laboratory

Assumed Knowledge: CHEE251, CHEE266 or CHEE268 is taken simultaneously with CHEE312

Described to provide an understanding of chemical engineering principles, and how to use heat transfer software to analyse heat transfer problems. The subject is designed to provide students with an understanding of the basic principles of heat transfer, and how to use heat transfer software to analyse heat transfer problems.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1
CHEE342 Safety and Risk Management 10cp

Assumed Knowledge: CHEE1100, CHEE1200

Introduces students to the application of safety and risk management in chemical engineering processes. The subject will cover topics such as the fundamentals of safety and risk management, process safety, and the application of safety and risk management in industry. The module will include lectures and tutorials, and will be delivered in a self-directed project work style.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 3

CHEE344 Environmental and Safety Computations 5cp

Assumed Knowledge: First and second year Mathematics, CHEE242, CHEE246

Introduces students to advanced technologies for solving ordinary differential equations. The subject is designed for Chemical Engineering students and will cover topics such as the use of computational methods for solving ordinary differential equations, and the application of these methods in chemical engineering. The module will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

CHEE346 Food Processing for Chemical Engineers 5cp

Assumed Knowledge: CHEE141, CHEE152, CHEE262, CHEE268

Introduces students to the process engineering of a range of food products, and to the application of fundamental chemical engineering principles such as mass, heat, and momentum transfer, and fluid flow processes. The module will cover topics such as the principles of heat and mass transfer, fluid flow, and biological and chemical processes.

Contact hours: 7 hours per week
Location and Semester Details: Callaghan - Semester 2

CHEE351 Electrochemistry and Corrosion 5cp

Assumed Knowledge: First and second year Chemistry

Develops an understanding of corrosion, the fundamentals of electrochemistry, and the principles of corrosion control. The module will cover topics such as the fundamentals of electrochemistry, corrosion mechanisms, and corrosion protection methods. The module will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 3

CHEE352 Transport Phenomena 5cp

Assumed Knowledge: First and second year Mathematics, CHEE265, CHEE267, CHEE268

Introduces students to transport phenomena in chemical engineering, and develops a comprehensive understanding of transport phenomena in chemical engineering processes. The module will cover topics such as mass transfer, heat transfer, and momentum transfer, and will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 3

CHEE353 Biotechnology 5cp

Assumed Knowledge: CHEE141, CHEE152, CHEE262, CHEE268

Introduces students to the principles of biotechnology, and develops an understanding of the fundamentals of bioprocesses. The module will cover topics such as microbial physiology, metabolic pathways, and bioprocess engineering. The module will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

CHEE355 Surface Chemistry 1 5cp

Assumed Knowledge: First year Chemistry

Introduces students to the properties of surfaces, and develops an understanding of the fundamentals of surface chemistry. The module will cover topics such as the properties of surfaces, and the fundamentals of surface chemistry. The module will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 3

CHEE359 Process Synthesis 5cp

Assumed Knowledge: CHEE111, CHEE114

Introduces students to the process of developing a workable engineering design which has been developed to treat hazardous waste material. The module will cover topics such as the fundamentals of process synthesis, and will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 3

CHEE362 Process Metallurgy 5cp

Assumed Knowledge: CHEE267 or permission from the lecturer

Introduces students to the fundamentals of process metallurgy, and develops an understanding of the fundamentals of process metallurgy. The module will cover topics such as the fundamentals of process metallurgy, and will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 3

CHEE363 Fundamentals of Kinetics Processes 5cp

Assumed Knowledge: First and second year Chemistry

Introduces students to the fundamentals of chemical processes, and develops an understanding of the fundamentals of chemical processes. The module will cover topics such as the fundamentals of chemical processes, and will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

CHEE365 Introduction to Mineral Processing 5cp

Assumed Knowledge: CHEE111, CHEE114

Introduces students to the fundamentals of mineral processing, and develops an understanding of the fundamentals of mineral processing. The module will cover topics such as the fundamentals of mineral processing, and will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 3

CHEE368 Waste Management 5cp

Assumed Knowledge: Nil

Introduces students to the fundamentals of waste management, and develops an understanding of the fundamentals of waste management. The module will cover topics such as the fundamentals of waste management, and will include lectures, tutorials, and self-directed project work.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2
CHEE450 Project Management 2 Scp 10cp

Assumed Knowledge: Nil

Completes an earlier work on chemical engineering project planning, development and project managemen

and includes aspects of project control, cost and schedule management.

Project Management: Extension to the subject. Includes aspects of project control, cost and schedule management.

Contact hours: 2 hours per week Location and Semester Details: Callaghan - Semester 1 and 2

CHEE454 Process Optimisation 2 Scp 10cp

Assumed Knowledge: CHEE432, CHEE434, CHEE436, CHEE438

Introduces the student to process optimisation techniques. The student will need to design efficient, robust process systems, and optimise both the capital and operating costs.

Contact hours: 2 hours per week Location and Semester Details: Callaghan - Semester 1

CHEE457 Principles of Waste Water Treatment 10cp

Assumed Knowledge: First year Chemistry, CHEE425, CHEE426

Introduces students to various aspects of the field of waste water treatment. The subject is designed to provide an overview of the principles and practice of waste water treatment.

Contact hours: 2 hours per week Location and Semester Details: Callaghan - Semester 1

CHEE458 Advanced Research Project 10cp

Assumed Knowledge: All subjects at level 300 and above

This subject provides an opportunity for students to undertake an original research project in a field of interest.

Contact hours: 2 hours per week Location and Semester Details: Callaghan - Semester 2
CHEM211C Analytical Chemistry
10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Introduction: The theory and practice of acquiring information about the composition of matter, or quantitative chemical analysis. It covers: instrumental methods, such as spectrophotometry, atomic absorption and separation techniques including chromatography. Many topics are of direct relevance to the subjects of this subject, which include atomic structure, energy, life, sciences and industry.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Location and Semester Details: Callaghan - Semester 1

CHEM212 Inorganic Chemistry
10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Introduction: Advanced concepts and methods employed in inorganic chemistry, the branch of chemistry that deals with the properties of the Periodic Table. The subject covers a core area of the discipline pertaining to the descriptive chemistry of the elements and their compounds including precipitations and syntheses, bonding, reactions, synthesis and characterization. A good understanding of inorganic chemistry is important to students intending to complete a major in inorganic chemistry, and it is key to the understanding of life sciences, life sciences and engineering.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Location and Semester Details: Callaghan - Semester 2

CHEM213 Organic Chemistry
10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Introduction: Advanced concepts and methods employed in organic chemistry, the branch of chemistry that deals with compounds of carbon and the molecules of life. The subject covers a core area of the discipline pertaining to the descriptive chemistry of the elements and their compounds including precipitations and syntheses, bonding, reactions, synthesis and characterization. A good understanding of organic chemistry is important to students intending to complete a major in organic chemistry, and it is key to the understanding of life sciences, life sciences and engineering.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Location and Semester Details: Callaghan - Semester 2

CHEM214 Physical Chemistry
10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Introduction: A basic understanding of the core area of physical chemistry, based around the theme of energy and structure to examine aspects of modern chemistry. eagles of the nature and structure of chemistry provides the context in which chemistry is understood, and it is key to the understanding of life sciences, life sciences and engineering.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Location and Semester Details: Callaghan - Semester 1

CHEM215 Instrumental Analysis
10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Introduction: Advanced concepts and methods employed in instrumental analysis, the branch of chemistry that deals with the methods of measuring chemical properties. The subject covers a core area of the discipline pertaining to the descriptive chemistry of the elements and their compounds including precipitations and syntheses, bonding, reactions, synthesis and characterization. A good understanding of instrumental analysis is important to students intending to complete a major in instrumental analysis, and it is key to the understanding of life sciences, life sciences and engineering.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Location and Semester Details: Callaghan - Semester 1

CHEM216 Environmental Chemistry
10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Introduction: Environmental chemistry, focusing on chemistry of the hydrosphere, atmosphere and soil. It examines the chemistry of natural and waste water, chemicals and their role in the environment. It is key to the understanding of life sciences, life sciences and engineering.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Location and Semester Details: Callaghan - Semester 1

CHEM217 Energy and Structure
10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Introduction: Fundamental chemistry, focusing on the chemistry of the hydrosphere, atmosphere and soil. It examines the chemistry of natural and waste water, chemicals and their role in the environment. It is key to the understanding of life sciences, life sciences and engineering.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Location and Semester Details: Callaghan - Semester 2

CHEM218 Medicinal and Biological Chemistry
10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM211C and CHEM212. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Introduction: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM211C and CHEM212. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

Assessment: Includes a range of assessment methods, including written exams, assignments, and presentations.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Location and Semester Details: Callaghan - Semester 2
Assumed Knowledge: None

This subject forms part of the Bachelor of Industrial Engineering (Honours) program. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such subjects may be counted by part-time students as electives.

Contact hours: To be specified.

Location and Semester Details: Callaghan - Semester 1 and 2

CIVL205 Engineering Computations 10cp

Assumed Knowledge: MATH101 Engineering Computation 1

The aim of this subject is to introduce the principles of using computers and software tools in engineering. Students will develop programming skills for use in their future work in the process of using software tools for engineering analysis and design.

Contact hours: 3 hours per week + informal student consultation.

Location and Semester Details: Callaghan - Semester 1 and 2

CIVL213 Theory of Structures 10cp

Assumed Knowledge: MECH191 Statics and Strength of Materials

This subject introduces students to the fundamentals of the theory of structures. The course covers the analysis of simple structures, including the use of the method of sections, the method of joints, and the method of superposition. The course also covers the analysis of frames, including the use of the method of sections, the method of joints, and the method of superposition. The course also covers the analysis of frames, including the use of the method of sections, the method of joints, and the method of superposition.

Contact hours: 3 hours per week + informal student consultation.

Location and Semester Details: Callaghan - Semester 1 and 2

CIVL235 Civil Engineering Materials 10cp

Assumed Knowledge: CIVL102 Introduction to Civil Engineering

This subject introduces students to the fundamental principles and practices of the design and construction of civil engineering structures. The course covers the selection and application of materials for construction, including the use of concrete, steel, and wood. The course also covers the selection and application of materials for construction, including the use of concrete, steel, and wood. The course also covers the selection and application of materials for construction, including the use of concrete, steel, and wood.

Contact hours: 3 hours per week + informal student consultation.

Location and Semester Details: Callaghan - Semester 1 and 2

CIVL267 Environmental Fluid Mechanics 10cp

Assumed Knowledge: There are no pre-requisites for this subject.

This subject provides students with a general introduction to environmental and fluid dynamics. Students will gain an understanding of the principles of fluid mechanics and the application of these principles to environmental problems. The course also covers the selection and application of materials for construction, including the use of concrete, steel, and wood. The course also covers the selection and application of materials for construction, including the use of concrete, steel, and wood. The course also covers the selection and application of materials for construction, including the use of concrete, steel, and wood.

Contact hours: 3 hours per week + informal student consultation.

Location and Semester Details: Callaghan - Semester 1 and 2

CIVL273 Environmental Engineering 10cp

Assumed Knowledge: None

This subject forms part of the Bachelor of Environmental Engineering program. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such subjects may be counted by part-time students as electives.

Contact hours: To be specified.

Location and Semester Details: Callaghan - Semester 1 and 2

CIVL282 Environmental Chemistry 10cp

Assumed Knowledge: None

This subject forms part of the Bachelor of Environmental Chemistry program. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such subjects may be counted by part-time students as electives.

Contact hours: To be specified.

Location and Semester Details: Callaghan - Semester 1 and 2
CIVL231 Fluid Mechanics
10cp
Assumed Knowledge: One prerequisite course - CIVL132 Environmental Fluid Mechanics

Problems and applications of fluid mechanics concepts and their application in a range of civil and environmental engineering contexts. This subject links to foundation structural, environmental and geotechnical education. It is a prerequisite concept for many subsequent subjects.

Contact hours: 3 hours per week. Location and Semester Details: Caffaghan - Semester 2

CIVL231 Hydrogeology
10cp
Assumed Knowledge: Co-requisites: CIVL228 Soil Mechanics

Geohydrology and fluid mechanics concepts in the context of environmental fluid mechanics. Includes: fluid mechanics, hydrology, and groundwater flow and quality, relating to site and regional context.

Contact hours: 1 hour seminar per week. Location and Semester Details: Caffaghan - Semester 2

CIVL231 Water Resources Engineering
10cp
Assumed Knowledge: Co-requisites: CIVL228 Soil Mechanics

The subject covers the historical development of water resources engineering, including: water resources, ground water, water quality, hydrology, water resources, water quality, and environmental management.

Contact hours: 2 hours of lecture and 2 tutorial hours per week. Location and Semester Details: Caffaghan - Semester 2

CIVL231 Soil Mechanics
10cp
Assumed Knowledge: CIVL122 Engineering Geology; CIVL233 Urban Geotechnics

The subject is concerned with the structural design of structures and structures. It is a prerequisite for subsequent subjects.

Contact hours: 3 hours per week. Location and Semester Details: Caffaghan - Semester 2
Assumed Knowledge: Students must satisfy standard entry requirements for fourth year environmental engineering.

This subject introduces students to the skills and knowledge required to develop practical skills in environmental engineering. Special applications are considered with an emphasis on real-world problems typically encountered by environmental engineers. The problems are set by practicing engineers and cover most aspects of environmental engineering design.

CMNS105 Introduction to Professional Writing

This subject introduces students to the basic concepts and principles of professional writing. Students will develop skills in writing for a variety of purposes and audiences. The emphasis is on developing clear, effective written communication.

CMNS111 Introduction to Communication Studies

This subject introduces students to the key terms, concepts and theoretical perspectives that are fundamental to understanding communication in contemporary society. Students will be introduced to the role of communication in the construction of meaning, identity, power and social change.

CMNS212 Introduction to Public Relations

This subject introduces students to the skills and knowledge required to work in the field of public relations. Students will develop skills in message planning, media relations, crisis communication, and stakeholder management.

CMNS213 Introduction to Digital Communication

This subject introduces students to the key concepts and theories that underpin digital communication. Students will be introduced to the history of digital communication, its impact on society, and its role in contemporary culture.

CMNS214 Introduction to Video Production

This subject introduces students to the fundamental concepts and techniques of video production. Students will learn about camera operation, lighting, editing, and the use of video software.

CMNS215 Introduction to Audio Production

This subject introduces students to the basic concepts and techniques of audio production. Students will learn about microphone selection, sound recording, and post-production editing.

CMNS216 Introduction to Music Production

This subject introduces students to the basic concepts and techniques of music production. Students will learn about recording, mixing, and mastering.

CMNS217 Introduction to Radio Studies

This subject introduces students to the role of radio in contemporary society. Students will learn about radio history, programming, and audience research.

CMNS218 Introduction to Advertising

This subject introduces students to the basic concepts and techniques of advertising. Students will learn about advertising history, research, and creative processes.
CMNS229 Public Relations Issues and Strategies
Assumed Knowledge: CMNS109 and CMNS129. It will be assumed that students in this subject will have knowledge of professional writing practices and will have introduced professional writing practices.

This subject is restricted to those students enrolled in the Bachelor of Arts (Communication Studies).

Students will develop professional ethics through the consideration of the ethical obligations and responsibilities of practitioners in the public relations industry.

Contact hours: 2 hours per week Location and Semester Details: Calfaghan - Semester 2

CMNS288 Applied Journalism
Assumed Knowledge: CMNS129 Introduction to Public Relations Practice and Principles. Students will engage in professional practice in journalism.

Contact hours: 3 hours per week Location and Semester Details: Calfaghan - Semester 2

CMNS322 Multimedia on the Web
Assumed Knowledge: 60 credit points at 100 level including CMNS100 Introduction to Digital Media and Communication

CMNS231 Principles of Sound
Assumed Knowledge: CMNS129 Principles of Sound and Film Production, or an equivalent of 60 credit points at 100 level.

Contact hours: 2 hours per week Location and Semester Details: Calfaghan - Semester 1

CMNS211 Digital Media and Production
Assumed Knowledge: 60 credit points at 100 level including CMNS100 Introduction to Digital Media and Communication

CMNS277 Soundscapes Studies
Assumed Knowledge: CMNS105 or an equivalent competency ability to apply an introductory level skills in sound recording and editing and an understanding of the fundamental principles of acoustics relevant to audio communication

This subject is restricted to those students enrolled in the Bachelor of Arts (Communication Studies).

Contact hours: 2 hours per week Location and Semester Details: Calfaghan - Semester 2

CMNS235 Video Art
Assumed Knowledge: CMNS203 - Video Production and CMNS204. Students undertaking this subject will have demonstrable video production, shooting, and editing skills.

This subject is restricted to those students enrolled in the Bachelor of Arts.

Contact hours: 2 hours per week Location and Semester Details: Calfaghan - Semester 1

CMNS236 Introduction to Broadcast Journalism
Assumed Knowledge: CMNS100 Introduction to Digital Media and Communication

Providing students with an introduction to the specialist characteristics of electronic news gathering and reporting, including radio and television, in preparation for the advanced media practicum of CMNS236 Broadcast Journalism.

Contact hours: 2 hours per week Location and Semester Details: Calfaghan - Semester 2

CMNS286 Audience Studies
Assumed Knowledge: CMNS111 or an equivalent understanding of media theory and production.

This subject is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Fine Art. Students are required to have at least 60 credit points at 100 level.

Contact hours: 2 hours per week Location and Semester Details: Calfaghan - Semester 2

CMNS282 Media Ownership and Control
Assumed Knowledge: CMNS111

CMNS202享有 the ownership and control (structure of media organisation in Australia) g

This subject is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Fine Art.

Contact hours: 2 hours per week Location and Semester Details: Calfaghan - Semester 2
25 minutes duration. Emphasis is given to the sentence structure and grammatical requirements for students to develop an ability to critically evaluate the work and be an independent focal point in the overall production.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3377 Sound Project
Assumed Knowledge: CMN2337 or CMN3935

Develops the principles of editing and design of print materials and text, web-based delivery. Students will learn how to develop ‘sound’ printed materials for delivery on the World Wide Web by developing documents in HTML. Materials, technical, digital, and print issues are covered. Focus on project design and teamwork.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3388 Electronic Publications
Assumed Knowledge: CMN100 and CMN213

Explores the range of concepts, analytical, production and presentation strategies involved in the creation of radio, music and video projects. Music, recording, editing, and other audio techniques. Connection between sound design and storytelling, evoking a communicative environment available through technology and sound production. The use of digital composition and production techniques are introduced as an audio style and audio-aesthetic compositional technique, understood and applied as a component of contemporary sound techniques.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3399 Poetics, Ethics, Aesthetics
Assumed Knowledge: 60 credit points at 100 level. Students will be expected to have a previous experience of the ethical aspects of media production. It reviews the social conceptions of media positions and the theoretical issues raised by the possibilities of social action in aesthetic production.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3400 Copywriting
Assumed Knowledge: CMN109 Introduction to Professional Writing

Design copy to promote products within the area of consumer and business communications and to develop an understanding of the conceptual and cultural development of the field. The course is designed to provide students with an in-depth knowledge of how to create effective advertising copy and to develop critical thinking skills that are essential in the field of copywriting.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3410 Directed Studies in Communication
Assumed Knowledge: 60 Credit Points at 200 level

Gives students the opportunity to undertake special projects not otherwise available in the Communication degree. Through either a course of directed reading, viewing and/or writing to a creative production project.

Entry must be approved by the Head of Department.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CMN3420 Introduction to Programming and Computing
Assumed Knowledge: N/A

Introduces students to scientific computing, concentrating on numerical techniques, and to the use of programming languages, particularly Python. The course aims to provide a solid foundation in the use of programming languages and to develop problem-solving skills through the implementation of algorithms to solve problems. The subject provides an introduction to Object-Oriented Programming in an Integrated Development Environment.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3430 Theory of Computation
Assumed Knowledge: SENG112, MATH115

Discusses algorithms and their relationship to logic, number theory and discrete structures. The computational theory is presented, including basic algorithms and their complexity analysis, the complexity of problems, and the complexity of algorithm design.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3440 Introduction to Algorithms
Assumed Knowledge: SENG112

Introduces students to the notion of efficiency and computational complexity. The main ideas and algorithms are based on average running time and worst-case running time. The emphasis is on algorithm design and analysis rather than on optimization problems. Some background in computer science is necessary.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3450 Operating Systems
Assumed Knowledge: SENG112

Introduces computer operating systems principles, using practical examples. Topics include: operating system architecture, file systems, scheduling, virtual memory, and system security. Students develop an understanding of system software, structure and interaction between the user, the operating system, and the hardware.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3460 Communications Honours I

CMN3470 Communication Honours II

CMN3480 Communication Honours IV

Assumed Knowledge: Preferably a credit average in the major area of study through one or more of the following courses: Bachelor of Arts, Bachelor of Business Administration, or Bachelor of Commerce. Students with a specific interest in the field of study, such as those studying in the Bachelor of Business Administration, are encouraged to contact the faculty advisor to determine the appropriate level of study.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CMN3490 Data Security

Assumed Knowledge: SENG112, MATH115

Provides an overview of data security and data authenticity. Students learn about the tools and techniques used to protect data privacy and security and to authenticate data. The course covers topics such as cryptography, authentication, and data integrity.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CMN3500 Compiler Design

Assumed Knowledge: SENG222, MATH115

The purpose of this course is to develop the ability to understand and analyze compilers, and to implement and test a compiler for a sample language. The course covers topics such as lexical analysis, parsing, symbol table management, and code generation.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CMN3510 Advanced Algorithms

Assumed Knowledge: SENG223

This subject is a continuation of the study of algorithms begun at SENG223, with emphasis on the role of algorithms in the specification and implementation of computer programs. The course covers topics such as complexity analysis, data structures, and algorithm design.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CMN3520 Cryptographic Techniques

Assumed Knowledge: SENG112, MATH115

Introduces the basic concepts and techniques of cryptographic systems, including modular arithmetic, finite fields, and public-key cryptography. The course covers topics such as symmetric-key cryptography, public-key cryptography, and digital signatures.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

CMN3530 Machine Intelligence

Assumed Knowledge: SENG112, MATH115 and MATH111

Introduces the concepts and techniques of artificial intelligence, including reasoning, learning, and natural language processing. The course covers topics such as knowledge representation, automated reasoning, and machine learning.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

CMN3540 Special Topic A

Assumed Knowledge: Permission of Head of Department

Consists of a series of lectures and practical work in an area of advanced computer science of particular interest. Students may seek permission from the Head of Department to be entered on the course. The course covers topics such as computer networks, artificial intelligence, and data mining.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1 and 2

CMN3550 Special Topic B

Assumed Knowledge: Permission of Head of Department

Consists of a series of lectures and practical work in an area of advanced computer science of particular interest. Students may seek permission from the Head of Department to be entered on the course. The course covers topics such as computer networks, artificial intelligence, and data mining.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1 and 2

CMN3560 Special Topic C

Assumed Knowledge: Permission of Head of Department

Consists of a series of lectures and practical work in an area of advanced computer science of particular interest. Students may seek permission from the Head of Department to be entered on the course. The course covers topics such as computer networks, artificial intelligence, and data mining.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1 and 2

CMN3570 Special Topic D

Assumed Knowledge: Permission of Head of Department

Consists of a series of lectures and practical work in an area of advanced computer science of particular interest. Students may seek permission from the Head of Department to be entered on the course. The course covers topics such as computer networks, artificial intelligence, and data mining.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1 and 2
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Expand the graphic design process by applying translation to digital imaging and practice to a studio project, is encouraged. Students will be asked to complete a range of projects designed to develop skills in the use of computer-aided graphic design and production. A number of design processes will be explored. Students will be asked to undertake a self-directed project in one area of interest. The project will be undertaken throughout the semester.

Contact hours: 6 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN224 3D Graphic Design
Assumed Knowledge: DESN105

Introduction to the use of digital technology associated with 3D design ideas for computer-aided design and design. Emphasis is placed on 3D imaging and manipulation, with output technologies and professional practice as a focus. 2D graphics
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN225 3D Graphic Design
Assumed Knowledge: DESN105

Introduction to the use of digital technology associated with 3D design ideas for computer-aided design and design. Emphasis is placed on 3D imaging and manipulation, with output technologies and professional practice as a focus. 2D graphics
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN226 Design for Mass Production 2
Assumed Knowledge: DESN148 or DESN151

This course introduces the student to the materials and manufacturing processes encountered in industrial design. Emphasis is placed on the design implications of the intersection between material choice and production process. Processes and materials are covered with an emphasis on traditional methods of production. Materials will be used to build and test prototypes, including casting, welding, and powder metallurgy. Available in 2001 and 2003 (odd numbered years).
Contact hours: 1 hour lecture and 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 2

DESN227 Scientific Illustration
Assumed Knowledge: DESN223

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

DESN228 Styling
Assumed Knowledge: DESN160 or DESN170 or DESN201

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN229 3D Graphic Design
Assumed Knowledge: DESN105

Introduction to the use of digital technology associated with 3D design ideas for computer-aided design and design. Emphasis is placed on 3D imaging and manipulation, with output technologies and professional practice as a focus. 2D graphics
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN230 Design Studio Photography
Assumed Knowledge: DESN105

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

DESN231 Visual Communication Imaging
Assumed Knowledge: DESN131

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

DESN232 Interpretive Illustration
Assumed Knowledge: DESN120, DESN121, DESN123

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

DESN234 Screen-based Imaging
Assumed Knowledge: DESN130

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN235 2D Graphic Design
Assumed Knowledge: DESN105

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN236 2D Graphic Design
Assumed Knowledge: DESN105

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN293 Graphics 3
Assumed Knowledge: DESN191, DESN192

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours studio per week
Location and Semester Details: Callaghan - Semester 2

DESN312 Visual Communication Major Study Part-1
Assumed Knowledge: DESN126

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 6 hours studio per week
Location and Semester Details: Callaghan - Semester 2

DESN313 Visual Communication Major Study Part-2
Assumed Knowledge: DESN126

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 6 hours studio per week
Location and Semester Details: Callaghan - Semester 2

DESN314 Advertising Design
Assumed Knowledge: DESN110, DESN111

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN315 Visual Communication Major Study Skills
Assumed Knowledge: DESN110, DESN111

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

DESN316 Illustration for Industry
Assumed Knowledge: DESN121, DESN170

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

DESN320 Design for Mass Production 1
Assumed Knowledge: DESN148 or DESN151

This course provides students with an understanding of the role of illustration in the scientific and technical communication process. Emphasis is placed on the use of research and writing skills to present scientific and technical information effectively.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2
DESN230 Design for Digital Media 1 10cp
Assumed Knowledge: DESN210, DESN211
Examines the use of digital technology associated with illustration, imaging and design for reproduction. The studio environment will be centered around a problem based approach that models digital and digital technologies as they apply to the study and practice of graphic design. Particular emphasis is placed on vector based imaging, digital design, digital media and design for multimedia. The studio environment will be centered around a problem based learning model and will expose the potential of digital and related technologies as they apply to the study and practice of print related graphic design.
Contact hours: 1 hour lecture and 2 hour studio per week
Location and Semester Details: Callaghan - Semester 2

DESN231 Design for Digital Media 2 10cp
Assumed Knowledge: DESN210, DESN211
For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.
Continues the study of digital media and examines the use of digital technology associated with illustration, imaging and design for reproduction. The studio environment will be centered around a problem based learning model and will expose the potential of digital and related technologies as they apply to the study and practice of print related graphic design.
Contact hours: 1 hour lecture and 2 hour studio per week
Location and Semester Details: Callaghan - Semester 2

DESN232 Technical Illustration 3 10cp
Assumed Knowledge: DESN102, DESN112
For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.
A technical illustration subject that introduces students to the processes of developing and producing technical illustrations. Technical illustrations are an essential component of the design and construction of a wide range of products for the industrial design and manufacturing industries. The subject is designed to give students technical drawing skills in line with professional practice and enable them to prepare technical illustrations at an advanced level.
Contact hours: 2 hour studio per week
Location and Semester Details: Callaghan - Semester 2

DESN340 3D Graphic Design 10cp
Assumed Knowledge: DESN210, DESN211, DESN230, DESN231
For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.
Provides an extended practical format experience for the Graphic Design student. The subject also provides opportunity for experimentation, collaborative works and investigation into materials, substrates, equipment and technologies relevant to graphic design practice. 
Contact hours: 1 hour lecture and 2 hour studio per week
Location and Semester Details: Callaghan - Semester 2

DESN341 Visual Communication Project 1 10cp
Assumed Knowledge: Enrolment on approval of the Head of Department
Enables students to undertake a research based project in an area of visual communication not already addressed by the elective specialization subjects. The project will take into account relevant health and safety considerations and the reenhancement of the subject matter of the visual communication projects.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1 and 2

DESN345 Design for the Future 10cp
Exposes the design process, including the notion of a variable set of constraints in the future. The effect of 'futurism' on the design process is explored through a series of case studies. Design projects will apply the design process both to future constraints and to hypothesised future technologies. 
Contact hours: 1 hour lecture and 2 hour studio per week
Location and Semester Details: Callaghan - Semester 1

DESN350 Industrial Design 5 10cp
Assumed Knowledge: DESN210, DESN211, DESN190
Explores aspects of the profession covered in the subjects DESN210, DESN211, DESN230 and DESN231. The design brief and design solutions consider detailed considerations of marketing and manufacturing requirements. 
Contact hours: 3 hour studio per week
Location and Semester Details: Callaghan - Semester 1

DESN351 Industrial Design 6 10cp
Assumed Knowledge: DESN350
Projects take on the complexities of professional design projects. All design ideas are prepared by students from visual briefing, design brief and design strategy. Emphasis is placed on the student environment on the application of digital media in order to develop a comprehensive understanding of the different levels of visual design. 
Contact hours: 3 hour studio per week
Location and Semester Details: Callaghan - Semester 2

DESN371 Wildlife Illustration 1 10cp
Assumed Knowledge: DESN371, DESN372
An exploration and breadth of experience in the visual interpretation of the natural environment and its applications. Topics are designed to develop further skills and concepts of wild and wild life in broad ways of techniques and materials. Work will be done in the studio or in the field. Emphasis will be placed on realistic portrayal and professional attitudes. 
Contact hours: 2 hour studio per week
Location and Semester Details: Callaghan - Semester 1

DESN372 Wildlife Illustration 2 10cp
Assumed Knowledge: DESN371, DESN372
Addresses contemporary issues in both studio and field work which apply to the practice and business of wildlife illustration. Involves specialist study to prepare students the opportunity to pursue professional work. Emphasis is placed on the professional and the creative community.
Contact hours: 2 hour studio per week
Location and Semester Details: Callaghan - Semester 1

DESN383 Furniture Design 10cp
Assumed Knowledge: DESN252, corequisite DESN385
Involves the study and development of industrial design principles and practices of furniture design. Includes student based and industry commissioned projects. Emphasis is placed on the application of furniture design in the context of the Australian environment. 
Contact hours: 3 hour studio per week
Location and Semester Details: Callaghan - Semester 1

DESN385 Human Factors 10cp
Assumed Knowledge: DESN252, corequisite DESN385
Focuses on human factors and ergonomics. Students study and evaluate anthropometric and ergonomic data within the context of industrial design. Emphasis is placed on the development of an understanding of anthropometric and ergonomic factors in the design process. 
Contact hours: 1 hour lecture and 2 hour studio per week
Location and Semester Details: Callaghan - Semester 2

DESN400 Visual Communication Honours A 20cp
Provides an opportunity for students to develop a thesis through an extended project. This project may be in a field of expertise in visual communication.
Contact hours: 1 hour lecture and 2 hour studio per week
Location and Semester Details: Callaghan - Semester 2

DESN401 Visual Communication Honours B 20cp

DESN402 Visual Communication Honours C 20cp

DESN403 Visual Communication Honours D 20cp
Assumed Knowledge: Appropriate undergraduate degree at Credit level or above
Prepares students to develop the depth of creative and analytical skills necessary for performance at an advanced level. Students are required to display academic skills in professional level projects necessary for entry to a higher degree program or principal roles in industry.
Contact hours: By arrangement
Location and Semester Details: Callaghan - Semester 1 and 2

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DRAM211 Performance History II 10cp
Assumed Knowledge: Successful completion of DRAM101 and DRAM102
Offers a detailed study of aspects of major performance styles, forms and traditions, of the social and cultural contexts which shaped them.
Contact hours: 3 hour lecture per week
Location and Semester Details: Callaghan - Semester 2

DRAM223 Modernism & Performance I 10cp
Assumed Knowledge: Successful completion of DRAM101 and DRAM102
Examines various forms of modernist performance.
Contact hours: 3 hour lecture per week
Location and Semester Details: Callaghan - Semester 2

DRAM224 Modernism & Performance II 10cp
Assumed Knowledge: Successful completion of DRAM101 and DRAM102
Examines various forms of modernist performance.
Contact hours: 3 hour lecture per week
Location and Semester Details: Callaghan - Semester 2

DRAM270 Acting I 10cp
Assumed Knowledge: Successful completion of DRAM101 and DRAM102
Successful completion of DRAM102.
Contact hours: 3 hour lecture per week
Location and Semester Details: Callaghan - Semester 2

DRAM271 Acting II 10cp
Assumed Knowledge: Successful completion of DRAM101 and DRAM102
Successful completion of DRAM101.
Contact hours: 3 hour lecture per week
Location and Semester Details: Callaghan - Semester 2

DRAM274 Theatrecraft I 10cp
Assumed Knowledge: Successful completion of DRAM101 and DRAM102
Concurrent assumed knowledge: 1 drawn from DRAM221-224.
Offers an introduction to the craft of theatre stage management. The object is to gain a basic grounding in management procedures in the theatre and to conduct stage management workshops.
Contact hours: 2 hour lecture and 2 hour studio per week
Location and Semester Details: Callaghan - Semester 1

DRAM302 Introduction to Drama 20cp
Assumed Knowledge: A minor subject within the Bachelor of Design (Graphic) depends upon the progressive acquisition of skills and knowledge. These have been introduced through studies in appreciation, production and history of drama, in which students are introduced to a range of performance and production methods and practice. 
Provides a view of the diversity and variety of forms of drama and theatre practice which occur in Australian society. The origins and history of these forms are explored through a range of performance and production methods and practice. Students are encouraged to develop their understanding of the critical vocabulary appropriate to the dramatic arts and to explore the nature of performance through practical workshop activities. 
Contact hours: 2 hour lecture and 2 hour workshop per week
Location and Semester Details: Callaghan - Semester 2

DRAM303 Acting II 20cp
Assumed Knowledge: Successful completion of DRAM101 and DRAM102
Successful completion of DRAM102.
Contact hours: 3 hour lecture per week
Location and Semester Details: Callaghan - Semester 2

DRAM455 Industrial Design Photography 10cp
Assumed Knowledge: DESN331 or DESN350
Explores the knowledge and skills to produce a portfolio of two and three-dimensional work specific to industrial design. The module is mandatory and preparation and the implementation of the industrial design projects. Preparation and the implementation of the industrial design projects. Emphasis is placed on the application of digital media in order to develop a comprehensive understanding of the different levels of visual design. 
Contact hours: 3 hour studio per week
Location and Semester Details: Callaghan - Semester 2

DRAM455 Industrial Design Photography 20cp

DRAM455 Industrial Design Photography 30cp

DRAM455 Industrial Design Photography 40cp

DRAM455 Industrial Design Photography 50cp
DRAM372 Drama and Education I 10cp
Assumed Knowledge: Successful completion of DRAM272.
Concurrent assumed knowledge: A student subject drawn from DRAM272. This subject introduces students to the teaching of drama in schools. The subject is offered in Semester 1 and is preceded by an introduction to dramatic literature in schools.
Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

DRAM373 Community Drama I 10cp
Assumed Knowledge: 40cp of Drama at 200 level. Concurrent assumed knowledge: DRAM331
Offer an introduction to the theory, practice and methodologies of community theatre; and an introduction to students to the process of community theatre project development.
Fortnightly 1 hour plus 3 hours per week
Location and Semester Details: Central Coast - Semester 1

DRAM378 Drama and Education II 10cp
Assumed Knowledge: Successful completion of DRAM101 and DRAM102.
Concurrent assumed knowledge: A student subject drawn from DRAM272. This subject introduces students to the teaching of drama in schools. The subject is offered in Semester 1 and is preceded by an introduction to dramatic literature in schools.
Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 2

DRAM380 Director's Perspective I 10cp
Assumed Knowledge: DRAM275 (Theatricality II). Concurrent assumed knowledge: DRAM331
Offers an introduction to the role of the director for the stage. A major part of the Department's teaching focuses on the transformation of a text from page to stage. This course introduces students to the director's role in the development of a production. It is designed to prepare them for the director's role in performance.
Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 2

DRAM380C Director's Perspective I 10cp
Assumed Knowledge: 40cp of Drama at 200 level. Concurrent assumed knowledge: DRAM331
Offers an introduction to the role of the director for the stage. A major part of the Department's teaching focuses on the transformation of a text from page to stage. This course introduces students to the director's role in the development of a production. It is designed to prepare them for the director's role in performance.
Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 2

DRAM383 Advanced Studies in Performance 120cp
Assumed Knowledge: 40cp of Drama at 200 level including the material covered in either Performance I or Performance II, and Modernisation and Performance I and II. It is also anticipated that students would be encouraged to develop their own performance skills as well. The subject requires a 20-hour project and a 20-hour internship in a professional theatre company.
Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

DRAM388 Microeconomics 1 10cp
Assumed Knowledge: Nil. Any student with 10cp in microeconomics will be considered.
Introduces microeconomics concepts, principles and policy. Topics include: demand, supply and elasticity; consumer behaviour; market structure and market behaviour; international trade and the balance of payments.
Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1
ECON239 Business Economics
Assessed: 10 cop
Location: Callaghan - Semester 1

ECON245 Basic Econometrics and Quantitative Analysis II
Assessed: 10 cop
Location: Callaghan - Semester 2

ECON246 Economics of Information and Networks
Assessed: 10 cop
Location: Callaghan - Semester 2

ECON247 International Business Environment 10 cop
Assessed: Knowledge: ECON110 and ECON111
Location: Callaghan - Semester 2

ECON252 Introduction to International Trade and Finance
Assessed: Knowledge: ECON110 and ECON111
Location: Callaghan - Semester 2

ECON254 Money and Banking
Assessed: Knowledge: ECON110 and ECON111
Location: Callaghan - Semester 2

ECON256 International Business Finance 10 cop
Assessed: Knowledge: ECON110 and ECON111 or ECON252
Location: Callaghan - Semester 2

ECON262 Money and Financial Markets
Assessed: Knowledge: ECON110 and ECON111
Location: Callaghan - Semester 2

ECON268 Microeconomics I 10 cop
Assessed: Knowledge: ECON305
Location: Callaghan - Semester 2

ECON302 Money and Finance
Assessed: Knowledge: ECON251 or ECON252
Location: Callaghan - Semester 2

ECON303 Australian Business History
Assessed: Knowledge: ECON110 and ECON111
Location: Callaghan - Semester 2

ECON304 Econometric Modelling and Forecasting
Assessed: Knowledge: ECON305

ECON307 Advanced Econometrics and Microeconomics
Assessed: Knowledge: ECON305
Location: Callaghan - Semester 2

ECON411 Economics
Assessed: Knowledge: Appropriate grade point average in business pass degree
Location: Callaghan - Semester 2

ECON410 Economics IA
Assessed: Knowledge: Appropriate grade point average in Bachelor of Business degree
Location: Callaghan - Semester 2

ECON411 Economics
Assessed: Knowledge: Appropriate grade point average in Bachelor of Business degree
workshop. Compulsory topics are variety of teaching subject will include Department of Economics, although one have a minimum quantitative standard equivalent to.

Acquaints students with advanced methods used for marketing research. Contact consulting/research observational objectives: firstly, the Faculty Of Economics and Business. Within the business and experimentation; secondly, the research skills of students wishing to pursue a career involving knowledge: appropriate opportunities: Semester 1, details: Caffaghan.

Semester 2, details: Caffaghan students taking different degrees and thirdly students to teach personal development, health and physical education in K-6 setting. Contact hours: 2 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Assumed Knowledge: no prior medical knowledge required to develop students' understanding of the role of teaching and planning curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 K-6 syllabus. It will focus on the appropriate teaching and assessment strategies for the implementation of the K-6 syllabus. Contact hours: 2 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.

Teaching Practices in K-6 Science and Technology Assumed Knowledge: Foundations in Primary Teaching students to teach the four strands of primary mathematics: measurements, numbers and mathematics work.

Teaching Practices in K-6 HSIE Assumed Knowledge: a discipline facilitates current teaching practice and curriculum in the primary key learning area of early childhood education. Contact hours: 3 hours per week.
EDTD23 Teaching & Learning in Design & Technology 2 5cp

Assumed Knowledge: EDDT121

Describes the professional development of the pre-service teacher in the emerging and changing teaching and learning environment, in senior Technology and Applied Studies (TAS) subjects. Students will engage in the content, pedagogical, and classroom practice skills required by technology and applied studies teachers for a range of educational resource materials. They will also be trained in a mentor role to enable them to work directly with a senior student to critically examine syllabus, in applications to the classroom and related practical assessment issues.

Teacher Contact Hours: 3 hours per week
Location and Semester Details: Coffs Harbour - Semester 1 and 2

EDTD247 Teaching and Learning in TAS 3 10cp

Assumed Knowledge: EDDT221, EDDT222

Provides an overview of technology education. It is intended to introduce students to the policies, practicalities and research which informs technology education. The subject will also examine technology education and its role in supporting student learning and development. Attention is given to the integration of technology and practice and, in particular, the application of research findings to contexts of use in education.

Teacher Contact Hours: NIL
Location and Semester Details: Coffs Harbour - Semester 1

EDTD341 Design and Technology Studies 4 10cp

Assumed Knowledge: N/A

Examines the relationship between computer technology and the education requirements for the Technology and Applied Studies (TAS) teacher.

Teacher Contact Hours: NIL
Location and Semester Details: Coffs Harbour - Semester 1

EDTE131 Teaching and Learning in TAS 3 5cp

Assumed Knowledge: EDEC431

Provides students with the opportunity to further develop skills and knowledge for teaching TAS in secondary schools. This subject has two components: curriculum development and assessment and evaluation.

Teacher Contact Hours: 2 hours per week
Location and Semester Details: Coffs Harbour - Semester 1

EDTE132 Professional Experience 1A (K-5) 10cp

Assumed Knowledge: Nil

It is desirable that students have completed all subjects in the course at the 100 and 200 levels and be undertaking Professional Experience 1A concurrently with EDTE131 Professional Preparation 2.

Teacher Contact Hours: NIL
Location and Semester Details: Coffs Harbour - Semester 1

EDTE21 Education and Training 1 5cp

Assumed Knowledge: Nil

Focuses on the particular professional preparation needs that apply to early childhood teachers. It is essential that students have completed Professional Education and Training 1, which requires students to fulfill both individual and group professional requirements. This subject will enable pre-service students to plan, deliver and evaluate competency-based training and assessment strategies within their own area of expertise. It also provides an orientation to relevant school curriculum and industry standards.

Contact Hours: 2 hours per week
Location and Semester Details: Coffs Harbour - Semester 1

EDTE22 Early Childhood Education 1 5cp

Assumed Knowledge: N/A

Prepares students to support language and literacy learning in early childhood settings. Topics include literacy development, environmental print, early literacy, word-based and non-word-based language, letter names and sounds, vowel and consonant sounds, phonological awareness, early phonics, writing conventions, programing and assessment, and teaching/learning strategies.

Contact Hours: 2 hours per week
Location and Semester Details: Coffs Harbour - Semester 1

EDTE23 Early Childhood Education 2 5cp

Assumed Knowledge: Must have completed successfully EDTE121, EDTE122, EDTE123

Focuses on the particular professional preparation needs that apply to early childhood teachers. It is essential that students have completed Professional Education and Training 1 and 2, which requires students to fulfill both individual and group professional requirements. This subject will enable pre-service students to plan, deliver and evaluate competency-based training and assessment strategies within their own area of expertise. It also provides an orientation to relevant school curriculum and industry standards.

Contact Hours: 2 hours per week
Location and Semester Details: Coffs Harbour - Semester 1

EDTE24 Early Childhood Education 3 5cp

Assumed Knowledge: Must have completed successfully EDTE121, EDTE122, EDTE123

Focuses on the particular professional preparation needs that apply to early childhood teachers. It is essential that students have completed Professional Education and Training 1, 2 and 3, which requires students to fulfill both individual and group professional requirements. This subject will enable pre-service students to plan, deliver and evaluate competency-based training and assessment strategies within their own area of expertise. It also provides an orientation to relevant school curriculum and industry standards.

Contact Hours: 2 hours per week
Location and Semester Details: Coffs Harbour - Semester 1

EDTE41 Early Childhood Special Education 10cp

Assumed Knowledge: N/A

Develops understanding and skills for working in early childhood settings with special needs. The subject utilizes the New South Wales Government's Professional Standards for Teachers and the NSW Public Education System for children with special needs. It includes training in, and experience of working in, early childhood settings.

Teacher Contact Hours: 2 hours per week
Location and Semester Details: Coffs Harbour - Semester 1

EDTE42 Early Childhood Special Education 10cp

Assumed Knowledge: N/A

Develops understanding and skills for working in early childhood settings with special needs. The subject utilizes the New South Wales Government's Professional Standards for Teachers and the NSW Public Education System for children with special needs. It includes training in, and experience of working in, early childhood settings.

Teacher Contact Hours: 2 hours per week
Location and Semester Details: Coffs Harbour - Semester 1

EDTE43 Professional Preparation 4 5cp

Assumed Knowledge: EDTE121, EDTE122, EDTE123

Focuses on the particular professional preparation needs that apply to early childhood teachers. It is essential that students have completed Professional Education and Training 1, 2 and 3, which requires students to fulfill both individual and group professional requirements. This subject will enable pre-service students to plan, deliver and evaluate competency-based training and assessment strategies within their own area of expertise. It also provides an orientation to relevant school curriculum and industry standards.

Teacher Contact Hours: 2 hours per week
Location and Semester Details: Coffs Harbour - Semester 1
EDPR222 Teaching & Learning Health & Physical Education 2 10cp

Assumed Knowledge: EDPR221 or equivalent subjects.
Provides the opportunity for students to continue developing a professional knowledge base on the content and methodology required for teaching PDHPE in secondary schools.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

EDPR223 Teaching and Learning in PDHPE 2 6cp

Assumed Knowledge: EDT131, EDT132 and EDT133 or equivalent subjects.
Provides the opportunity for students to continue developing a professional knowledge base on the content and methodology required for teaching PDHPE in secondary schools.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

EDPR224 Teaching & Learning in PDHPE 4A 10cp

Assumed Knowledge: EDPR223, EDPR231 and EDPR232 or equivalent subjects.
Provides the opportunity for students to continue developing a professional knowledge base on the content and methodology required for teaching PDHPE in secondary schools. A focus on school sport organisation, and regional administration of sport is included.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

EDPR225 Teaching & Learning in PDHPE 4B 10cp

Assumed Knowledge: EDPR221,223,333 or equivalent subjects.
Provides the opportunity for students to continue developing a professional knowledge base on the content and methodology required for teaching PDHPE in secondary schools.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

EDPR230 Professional Experience 1A 5cp

Assumed Knowledge: EDT111, 113, 112 or equivalent subjects.
Prepares students to undertake the equivalent of 10 days school-based experience in a K-6 setting. Where possible, students will be placed in pairs, to facilitate collaborative learning and reflection. Practical tasks will involve the student in observing, planning, teaching, assessing and evaluating.
Contact hours: 10 days professional experience
Location and Semester Details: Callaghan - Semester 1

EDPR230 Professional Experience 2 10cp

Prepares students to undertake the equivalent of 20 days school-based experience in a K-6 setting. Where possible, students will be placed in pairs to facilitate collaborative learning and reflection. Practical tasks will involve the student in observing, planning, teaching, assessing and evaluating.
Contact hours: 20 days professional experience
Location and Semester Details: Callaghan - Semester 1

EDPR320 Mathematics Teaching and Learning in Primary 2 10cp

Assumed Knowledge: Null
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the subject.
Required for students to gain knowledge and understanding of skills and values necessary to teach mathematics, PDHPE and Science & Technology.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

EDPR355 Teaching and Learning in Primary 10cp

Assumed Knowledge: Null
Syllabus content is assessed for K-6 syllabus in HSIE, PDHPE and Science & Technology.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

EDPR355 Teaching and Learning in Primary 10cp

Assumed Knowledge: Null
Provides an understanding of the role of the teacher and curriculum content to support inclusive teaching in the K-6 syllabus.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

EDPR355 Teaching and Learning in Primary 10cp

Assumed Knowledge: Null
Provides an understanding of the role of the teacher and curriculum content to support inclusive teaching in the K-6 syllabus.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

EDPR355 Teaching and Learning in Primary 10cp

Assumed Knowledge: Null
Provides an understanding of the role of the teacher and curriculum content to support inclusive teaching in the K-6 syllabus.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

EDPR355 Teaching and Learning in Primary 10cp

Assumed Knowledge: Null
Provides an understanding of the role of the teacher and curriculum content to support inclusive teaching in the K-6 syllabus.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

EDPR401 Practicum I 10cp

Assumed Knowledge: The following subjects, or those of deeming equivalence, provide the assumed knowledge for EDPR403 Practicum II:
EDPR101, EDPR103, EDPR131, EDPR132 and EDPR133.
Contact hours: 20 days field experience
Location and Semester Details: Callaghan - Semester 2

EDPR402 Internship 10cp

Assumed Knowledge: The following subjects, or those of deeming equivalence, provide the assumed knowledge for EDPR403 Practicum II:
EDPR101, EDPR103, EDPR131, EDPR132 and EDPR133.
Contact hours: 50 days field experience
Location and Semester Details: Callaghan - Semester 2

EDPR404 Professional Preparation 4 10cp

Assumed Knowledge: Null
Focuses on the professional preparation needs of a beginning teacher in a K-6 setting. This includes the student's own competencies and relationships, the ability to plan and teach, to manage the classroom, and to support the needs of learners, the ability to plan and teach, to manage the classroom, and to support the needs of learners.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

EDPR411 Literacies Across the Primary Curriculum 10cp

Assumed Knowledge: EDPR251 and teaching and learning in English K-6.
Focuses on the professional preparation needs of a beginning teacher in a K-6 setting. This includes the student's own competencies and relationships, the ability to plan and teach, to manage the classroom, and to support the needs of learners.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

EDPR433 Teaching and Learning in Science 3 5cp

Assumed Knowledge: EDPR223 and teaching and learning in Primary Science 2.
Focuses on the professional preparation needs of a beginning teacher in a K-6 setting. This includes the student's own competencies and relationships, the ability to plan and teach, to manage the classroom, and to support the needs of learners.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

EDPR442 Teaching and Learning in Science 3B 10cp

Assumed Knowledge: EDPR223 and teaching and learning in Primary Science 2.
Focuses on the professional preparation needs of a beginning teacher in a K-6 setting. This includes the student's own competencies and relationships, the ability to plan and teach, to manage the classroom, and to support the needs of learners.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2
EDSC424: Teaching & Learning in Science 4B 10cp
Assumed Knowledge: EDSS421, EDTE432, EDTE434
Prepares students to teach science at secondary level. It will focus on the following mandatory NOS syllables requirements and appropriate strategies for their implementation in the science classroom - literacy in science, and risk assessment in contact hour. Contact hours: 3 hours per week Location and Semester Details: Callaghan - Semester 1

EDSC425: Teaching and Learning in Science 4B 10cp
Assumed Knowledge: EDSS331, EDSC333, EDSC334
Prepares students to teach science at secondary level, it will focus on specific aspects of the NOS and the NOS. It will focus on the particular emphasis on the implementation of the NSW Environment Education Policy Document and the Stage 4 - 5 student research projects. The subject will examine appropriate teaching and assessment strategies that integrate science investigations, planning and evaluation with appropriate strategies in the classroom. Focus: 3 hours per week Location and semester Details: Callaghan - Semester 1

EDSC437: Practicum in Inclusive Settings A 10cp
Assumed Knowledge: Nil
Designed to allow students to complete a practicum placement in their main specialisation, whilst at the same time completing some additional teaching tasks relating to students with special educational needs who are included in the regular class. Students will be placed within regular education classes identified as having students with special needs included. Contact hours: 20 days field placement Location and semester Details: Callaghan - Semester 1 and 2

EDSC438: Practicum in Inclusive Settings B 10cp
Assumed Knowledge: EDSC437 or EDSC438 in addition, students undertaking the internship must have successfully completed 270 credit points of Bachelor/Relevant discipline degree. This subject requires the student to undertake 50 days of school experience in two different special education settings. The intern will be responsible for half the colleague teacher's teaching load. In addition, the intern will be expected to interact within the school and its community. Location and semester Details: Callaghan - Semester 1 and 2

EDSC440: Special Education Internship 10cp
Assumed Knowledge: EDSC437 or EDSC438 in addition, students undertaking the internship must have successfully completed 270 credit points of Bachelor/Relevant discipline degree. This subject requires the student to undertake 50 days of school experience in two different special education settings. The intern will be responsible for half the colleague teacher's teaching load. In addition, the intern will be expected to interact within the school and its community. Location and semester Details: Callaghan - Semester 1 and 2

EDSC447: Practice in Inclusive Settings 10cp
Assumed Knowledge: EDTE313
Designed to allow students to complete a practicum placement in their main specialisation, whilst at the same time completing some additional teaching tasks relating to students with special educational needs who are included in the regular class. Students will be placed within regular education classes identified as having students with special needs included. Contact hours: 20 days field placement Location and semester Details: Callaghan - Semester 1 and 2

EDSC441: Perspectives on Teaching in Special Education 5cp
Assumed Knowledge: Nil
Develops an understanding of the issues that inform policies and practices in special education and the models of service provision that exist. Specifically, the subject develops an understanding of the needs of students with disabilities, and the ethical and legal implications of their inclusion. Assumed knowledge: Nil
Develops knowledge and understanding of the needs of students and programmes that may be used to support behaviour change, as well as an understanding of the ethical and legal implications of their inclusion. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1

EDSC441C: Planning for Teaching in Special Education 10cp
Assumed Knowledge: Nil
Students will develop a knowledge and understanding of specific instructional strategies and planning and evaluation strategies relevant to teaching students with special education needs. The specific objectives of the subject are that students will develop a knowledge of programming models; the ability to use instructional strategies appropriate to specific learning needs; and the ability to design and develop programs at individual, group and class level. The subject will focus on a cohort of students seeking an additional accreditation as a special education teacher and are required to complete within their double degree program. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1 and 2

EDSC441D: Supporting Literacy, Numeracy Communication Skills 10cp
Assumed Knowledge: Nil
Develops an understanding of the literacy, numeracy and communication skills needs of students, and specific assessment and intervention approaches that can be implemented to meet those needs. Specifically, the subject will develop a knowledge of literacy, numeracy and communication needs of students; the ability to use instructional strategies appropriate to specific learning needs; the ability to use instructional strategies appropriate to specific learning needs; the ability to plan and implement programs; and the ability to plan and implement programs. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1 and 2

EDSC443C: Supporting Literacy, Numeracy Communication Skills 10cp
Assumed Knowledge: Nil
Develops an understanding of the literacy, numeracy and communication skills needs of students, and specific assessment and intervention approaches that can be implemented to meet those needs. Specifically, the subject will develop a knowledge of literacy, numeracy and communication needs of students; the ability to use instructional strategies appropriate to specific learning needs; the ability to plan and implement programs; and the ability to plan and implement programs. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1 and 2

EDSS414C: Supporting Behaviour Change 10cp
Assumed Knowledge: Nil
Develops knowledge and understanding of the behaviour needs of students and programmes that may be used to support behaviour change, as well as an understanding of the ethical and legal implications of their inclusion. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1 and 2

EDSS414E: Independent Research Study 15cp
Assumed Knowledge: Nil
Students conduct an independent research study under the supervision of an academic advisor. Contact hours: 60 hours by arrangement Location and semester Details: Callaghan - Semester 1 and 2

EDSS221 Teaching & Learning in Social Sciences 1 10cp
Assumed Knowledge: EDSS220
Studies students in the Social Sciences and its Environment syllabuses Years 7-10, and provides an understanding of the pedagogy and classroom strategies relevant to this level. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1 and 2

EDSS222 Teaching & Learning in Social Sciences 2 10cp
Assumed Knowledge: Nil
Studying students in the Social Sciences and its Environment syllabuses Years 11-12, and provides an understanding of the pedagogy and classroom strategies relevant to this level. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1 and 2

EDSS422 Teaching & Learning in Social Sciences 2A 10cp
Assumed Knowledge: EDSS221 and EDSS222
Develops knowledge of the issues that inform policies and practices in special education and the models of service provision that exist. Specifically, the subject develops an understanding of the specific social, emotional and intellectual needs of students with disabilities, and the ethical and legal implications of their inclusion. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1

EDSS423 Teaching & Learning in Social Sciences 2B 10cp
Assumed Knowledge: EDSS422
Develops knowledge of the issues that inform policies and practices in special education and the models of service provision that exist. Specifically, the subject develops an understanding of the specific social, emotional and intellectual needs of students with disabilities, and the ethical and legal implications of their inclusion. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1

EDSS424 Teaching & Learning in Social Sciences 3A 10cp
Assumed Knowledge: EDSS422
Provides the beginning teacher with knowledge and understanding of the assessment process for the HSC courses in Human Society & Environment. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1

EDSS425 Teaching & Learning in Social Sciences 3B 10cp
Assumed Knowledge: EDSS424
Four in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach Social Sciences in school settings. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1

EDYS425 Teaching and Learning in Social Science 4B 10cp
Assumed Knowledge: EDYS321, EDYS322, EDYS333
Fifth in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach Social Sciences. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1

EDYSY01 Professional Experience 1 10cp
Assumed Knowledge: Nil
A program consisting of approximately 30 days of school-based experience. Observations of teachers, teaching and the teaching environment occur. Opportunities to plan, reflect, manage and to take responsibility for aspects of teaching are provided. Contact hours: 20 days field experience Location and semester Details: Callaghan - Semester 1

EDYSY01 Professional Experience 2 10cp
Assumed Knowledge: EDYSY01 Professional Experience 1 and relevant specialist teaching and learning objects
Program of approximately 30 days orientation or equivalent undertaken in a school of relevant teaching placement. Contact hours: 30 days field experience Location and semester Details: Callaghan - Semester 1

EDSY411 Literacies Across the Secondary Curriculum 10cp
Assumed Knowledge: Admission to an year of program
The subject content falls into three distinct but inter-related areas, namely General Literacy (including numeracy, oracy and critical thinking), In accordance with the Department of Education and Training's Acquisitor Computer Literacy (in accordance with the recommendations of the Ministry of Education ,1995) and Civic awareness. Contact hours: 30 hours per unit Location and semester Details: Callaghan - Semester 1

EDTE111 Learners and the Learning Process 1 10cp
Assumed Knowledge: Nil
Provides students with the understanding, skills, practices and knowledge necessary to meet the ethical and legal implications of their inclusion. Contact hours: 3 hours per week Location and semester Details: Callaghan - Semester 1
Semester 1

**EDTE121** Contexts of Teaching 1

*Assumed Knowledge: Nil*

Introduces issues and practices relating to teachers' integration and inclusion of students with special needs.

*Contact hours: 3 hours per week*

**EDTE12C** Special Education

*Assumed Knowledge: Nil*

Introduces issues and practices relating to teachers' integration and inclusion of students with special needs.

*Contact hours: 3 hours per week*

**EDTE131** Professional Preparation 1A

*Assumed Knowledge: Nil*

Introduces the concepts and processes of teaching. Students are expected to observe practicing teachers and to act as novice teachers themselves. A major focus will be learners and what effective teachers must know about learners. The course includes current theories of learning, development, different learners, resources, and ways in which teachers can help students to learn. In addition, students will be introduced to various aspects of teaching, including teacher self-efficacy, personal and ethical aspects of teaching, beliefs about teaching and learning and resulting behaviors, and problems confronting novice teachers. A second focus will be the development of teaching skills in relation to teaching methods.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDTE231** Professional Preparation 2

*Assumed Knowledge: EDTE131, EDTE12C or equivalent subjects*

Assumed Knowledge: The following subjects or those of deemed equivalence provide the assumed knowledge for EDTE230: EDTE131, EDTE12C or equivalent subjects.

*Contact hours: 2 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDTE232 Practicum 1**

*Assumed Knowledge: The following subjects or those of deemed equivalence provide the assumed knowledge for EDTE231: EDTE131, EDTE12C or equivalent subjects.

*Contact hours: 20 days field experience*

**EDTE303 Internship**

*Assumed Knowledge: The following subjects or those of deemed equivalence provide the assumed knowledge for EDTE303: EDTE230 Practicum 1. Students undertaking the internship must have successfully completed 200 credit points of Bachelor of Teaching/related discipline degree.

*Contact hours: 50 days field experience*

**EDTE403C Internship**

*Assumed Knowledge: The following subjects or those of deemed equivalence provide the assumed knowledge for EDTE403C: EDTE303 Internship. Students undertaking the internship must have successfully completed 200 credit points of Bachelor of Teaching/related discipline degree.

*Contact hours: 20 days field experience*

**EDTE414 Aboriginal Education**

*Assumed Knowledge: EDTE211*

Introduces the social and cultural contexts of students with Aboriginal background.

*Contact hours: 2 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDTE420 Social & Cultural Contexts in Education**

*Assumed Knowledge: Nil*

Provides opportunities for students to develop knowledge at a greater depth in the area of social and cultural contexts. The intended learning outcomes are to develop an understanding of special topics of contemporary educational significance.

*Contact hours: 2 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDTE435 Australian Educational Contexts**

*Assumed Knowledge: Nil*

Provides an overview of current educational contexts, particularly for international students. It includes extension to services and programs for students with learning disabilities.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDTE442 Practicum 2**

*Assumed Knowledge: Nil*

Assumes the following subjects or those of deemed equivalence provide the assumed knowledge for EDTE442 Practicum 2. Students undertaking the internship must have successfully completed 200 credit points of Bachelor of Teaching/related discipline degree.

*Contact hours: 20 days field experience*

**EDTE450 Internship**

*Assumed Knowledge: The following subjects or those of deemed equivalence provide the assumed knowledge for EDTE450: EDTE131, EDTE12C or equivalent subjects.

*Contact hours: 50 days field experience*

**EDTE451 Specialist studies A**

*Assumed Knowledge: Nil*

Provides the opportunity for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDTE452 Specialist Studies B**

*Assumed Knowledge: Nil*

Provides the opportunity for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDTE454 Specialist Studies D**

*Assumed Knowledge: Nil*

Provides the opportunity for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDTE455 Specialist Studies E**

*Assumed Knowledge: Nil*

Provides the opportunity for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDUC495 Education Honours I**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDUC496 Education Honours II**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDUC497 Education Honours III**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDUC498 Education Honours IV**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDVA221 Teaching and Learning in Visual Arts 1**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDVA222 Teaching and Learning in Visual Arts 2**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDVA223 Teaching and Learning in Visual Arts 3**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDVA322 Teaching and Learning in Visual Arts 3A**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDVA323 Teaching and Learning in Visual Arts 3B**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1

**EDVA324 Teaching and Learning in Visual Arts 3C**

*Assumed Knowledge: Nil*

Provides opportunities for students to undertake a small research project. Projects are completed as part of their role as an intern/teacher in the school.

*Contact hours: 3 hours per week*

Location and Semester Details: Callaghan - Semester 1
Assumed Knowledge: Nil

ELEC193 Switching and Logic Design 10cp
Provides an introduction to switching and logic design with emphasis on the fundamental principles underlying digital circuits and systems. This subject covers the basics of digital logic design, including logic gates, Boolean algebra, Karnaugh maps, the design of combinational and sequential circuits, and the use of digital design tools. It also introduces the student to the design of digital systems using standard cells and programmable logic devices. Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

ELEC232 Electrical Circuits 10cp
Introduces the principles of electrical and electronic devices and the design of discrete component electronic circuits. The subject covers the fundamentals of circuit theory and analysis, components, semiconductor devices, single-junction semiconductor devices, and feedback amplifiers. Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

ELEC300 Introduction to Telecommunications 5cp
Introduces the principles and practice of digital systems engineering and networking. The subject includes an introduction to modern telecommunications technology and the applications of digital systems. The subject covers the design and implementation of digital systems, including digital signal processing, digital communications, and optical communications. Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

ELEC321 Instrumentation Electronics 10cp
Introduces the principles of electrical and electronic devices and the design of discrete component electronic circuits. The subject covers the fundamentals of circuit theory and analysis, components, semiconductor devices, single-junction semiconductor devices, and feedback amplifiers. Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

ELEC340 Signal Processing 5cp
Introduces the principles and practice of signal processing. The subject includes an introduction to modern telecommunications technology and the applications of digital systems. The subject covers the design and implementation of digital systems, including digital signal processing, digital communications, and optical communications. Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

ELEC350 Telecommunications Networks 10cp
Introduces the principles and practice of signal processing. The subject includes an introduction to modern telecommunications technology and the applications of digital systems. The subject covers the design and implementation of digital systems, including digital signal processing, digital communications, and optical communications. Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

ELEC352 Analog and Digital Communications 10cp
Introduces the principles and practice of signal processing. The subject includes an introduction to modern telecommunications technology and the applications of digital systems. The subject covers the design and implementation of digital systems, including digital signal processing, digital communications, and optical communications. Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

ELEC371 Microprocessor Systems 10cp
Introduces the principles and practice of signal processing. The subject includes an introduction to modern telecommunications technology and the applications of digital systems. The subject covers the design and implementation of digital systems, including digital signal processing, digital communications, and optical communications. Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1
Semesters 1 and 2

Semester 1

Assumed Knowledge: N/A

The content is variable, and depends on the context in which the subject is studied. It may involve laboratory, literature search or theoretical work in a private study context under the direction of an appointed supervisor.

Location and Semester Details: Callaghan - Semester 1

ELEC380 Project/Directed Reading 5cp

Assumed Knowledge: N/A

ELEC380 Project/Directed Reading 5cp

Assumed Knowledge: N/A

The content is variable, and depends on the context in which the subject is studied. It may involve laboratory, literature search or theoretical work in a private study context under the direction of an appointed supervisor.

Location and Semester Details: Callaghan - Semester 1 and 2

ELEC381 Engineering and Project Management 10cp

Assumed Knowledge: Second year of an engineering degree

Introduction to the essentials of management in the environment of professional engineering. Students are acquainted with the essentials of a broad range of topics, mainly related to the professional relevance and management of engineering tasks. Tutorials cover topics ranging from marketing to project management, professional ethics and the legal environment of engineering. Basic financial analysis methods are also covered.

Not to count for credit with the subjects ELEC382 or ELEC498.

Contact hours: 5 hours per week

Location and Semester Details: Callaghan - Semester 1

ELEC385 Introduction to Electrical Engineering 5cp

Assumed Knowledge: 2nd year of either Electrical, Computer or Telecommunications Engineering

To provide a very brief introduction in the application of basic electrical engineering concepts, covering the material used in basic circuits and components, and their use in design of electrical systems.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

ELEC410 Electrical Systems 10cp

Assumed Knowledge: ELEC2A07

Introduces the operation and behavior of electric power systems. Topics covered include: system theory; expansion studies; risk and contingency planning; transfer capability; distribution planning; fault levels; and economic dispatch.

Hours: 6 lecture hours and 2 one-day field trips.

Location and Semester Details: Callaghan - Semester 1

ELEC421 Electronics Design 10cp

Assumed Knowledge: ELEC2A07

Introduces logic interfacing, noise, interference, shielding, grounding, active filters, switched-capacitor filters, low-noise amplifiers, oscillators, mixers, and photodetectors with a view to a small group project, design, testing and construction of an electronic circuit to be required.

Contact hours: 5 hours per week

Location and Semester Details: Callaghan - Semester 1

Assumed Knowledge: MATH263 and (ELEC204 OR MECH235).

Overview of all control systems. Levels of Control: Modelling for control (discrete time); time response; frequency response; stability; root locus; Bode diagrams; Nyquist stability. Transient response: first order systems, second order systems, stability and error analysis. Control systems with feedback: closed-loop systems stability analysis; compensation methods; frequency domain analysis; gain and phase margins; robustness issues; control systems design using root locus or pole placement techniques. An introduction to state space control: state models, state equations, state space models for linear time invariant systems and solving using state space methods.

Assumed Knowledge: N/A

Contact hours: 5 hours per week

Location and Semester Details: Callaghan - Semester 1

Assumed Knowledge: N/A

ELEC360 Control Systems Design 10cp

Assumed Knowledge: ELEC345, ELEC360, ELEC420

Introduces design issues in control systems and integration of control systems with corporate and management policies. Emphasis is given to the assessment of control systems based on the industrial context, the evaluation of costs benefit trade-offs, and overall quality control issues.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 2

ELEC450 Advanced Telecommunications 10cp

Assumed Knowledge: ELEC445

Adaptive signal processing, adaptive filtering methods, multi-rate signal processing, narrow and wide band communication channels, Channel coding & equalization techniques, Digital speech, audio and speech processing techniques, Digital image processing, communication standards, GSM, IS-95, QPSK, CDMA, etc.

Not to count for credit with ELEC445 or ELEC455.

Contact hours: 6 lecture hours per week

Location and Semester Details: Callaghan - Semester 2

Assumed Knowledge: N/A

ELEC470 Advanced Computer Systems 10cp

Introduces students to advanced concepts in computer architecture and design emphasizing computer performance evaluation. Topics include: performance measures and test, instruction set architecture, pipelining, instruction level parallelism, caches, data base systems, interconnection networks.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 2

Assumed Knowledge: N/A

ELEC471 Real-Time Systems 10cp

Assumed Knowledge: ELEC372

Introduces concepts in real-time, multi-tasking operating systems. Topics covered include: tasking, multi-tasking semantics, critical sections, task management, operating system priorities, inter-task communication, device drivers, and I/O systems.

Contact hours: 5 hours per week

Location and Semester Details: Callaghan - Semester 1

Assumed Knowledge: N/A

ELEC480 Electrical Engineering Project 30cp

Assumed Knowledge: 3rd year of Electrical Engineering degree

Real world Projects represent the culmination of study towards the Bachelor of Electrical Engineering degree. Students are presented with the opportunity to apply and extend material covered throughout the duration of their study. All projects are assessed on a variety of criteria including design, implementation, peer review, client interaction and presentation skills.

Contact hours: 1 hour per week, plus regular meeting with designated supervisor. Location and Semester Details: Callaghan - Semester 1 and 2

Assumed Knowledge: N/A

ELEC485 Environmental and Their Management 10cp

Assumed Knowledge: N/A

Environmental issues are a central theme in our industrial society, and the understanding and management of these issues are critical to the sustainable development of our society. This subject is designed to introduce students to the complexities of environmental issues and to provide a framework for understanding and addressing these issues in a meaningful and effective manner. The subject focuses on the interactions between human activities and the natural environment, and examines the processes and principles that govern these interactions. It explores the methods and tools used to assess and manage environmental impacts, and considers the social, economic, and political dimensions of environmental decision-making.

Contact hours: 4 lecture hours per week, 1 tutorial hour per week and 1 one-day field trip

Location and Semester Details: Callaghan - Semester 7

Assumed Knowledge: N/A

EMGT204 Ecology and Management of Australian Flora 10cp

Assumed Knowledge: N/A

ECO305 and BIO101. Students with a strong background in first year science subjects other than biology should have sufficient knowledge to succeed in this subject.

The subject introduces students to the biodiversity of the Australian flora and fauna and the interdependence of these organisms and their environments. The ecological and functional characteristics of the flora and fauna are studied, with an emphasis on the relationships between these organisms and the environment. The subject also covers the management of natural systems and wildlife, and examines the principles of environmental sustainability and the role of human activities in shaping the environment. The subject is designed to provide a comprehensive understanding of the biodiversity of the Australian flora and fauna, and to enable students to apply this knowledge to a range of environmental issues.

Contact hours: 2 hours per week, 1 one-hour seminar, 1 hour tutorial per week and 1 one-day field trip

Location and Semester Details: Callaghan - Semester 7

Assumed Knowledge: N/A

EMGT303 Conservation Biology 10cp

Assumed Knowledge: N/A

The subject is designed to provide students with a comprehensive understanding of the principles and practice of conservation biology, and to equip them with the knowledge and skills necessary to pursue a career in the field. The subject covers a wide range of topics, including the ecology of conservation, the principles of conservation genetics, and the role of human activities in shaping the environment. The subject also includes a practical component, in which students will undertake field-based projects to assess and manage the ecological impacts of human activities.

Contact hours: 3 hours per week, 1 two-hour seminar and 1 one-hour field trip per week

Location and Semester Details: Callaghan - Semester 7
Assumed Knowledge: ENGL201 and ENGL210 are recommended.

Focuses on the theory and application of one of the key concepts of environmental policy and its evolution. The text examines the challenge of environmental sustainability and sustainability, focusing on the role of social, economic, and environmental forces in shaping sustainability. It also examines the role of cultural and political factors in shaping sustainability. It also examines the role of cultural and political factors in shaping sustainability.

Contact Hours: Two hour tutorial per week over a one-year period.
### Assumed Knowledge: 20 credit points of English subjects at 100 level
Examines modes of representation used in literature, written in English, by writers representing the full spectrum of a nation's culture from the late twentieth-century. The modes of allegory, mimetic and social realism used in short stories, novels and films to represent race, class and gender provide a focus for the study and revision of English critical theory. A dedicated seminar will be used to analyze recent constructions of nineteenth-century Australian culture.

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL344 Novel and Romance
**Assumed Knowledge:** 20cps introductory (100 level) English subjects

Examines the relationship between two forms of narrative, the novel and the romance, in particular as both have been defined in opposition to the romance novel. Works of prose such as "Wuthering Heights" and "Jane Eyre" in relation to texts ranging from the eighteenth to the twentieth century, and will explore the extent to which the novel has diversified itself from romantic fiction associated with fulfilling fantasies and consummate male-female.

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 2

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### ENGL346 Contemporary Australian Literature
**Assumed Knowledge:** 20cps of 100 level English subjects

Examines current writing of fiction in Australia from 1990 to the present. It covers a range of genres, including novel, short story, autobiography and media text, and explores the tensions between postmodernism and politics in the field through an examination of the discourses of gender, class and sexuality in each text.

**Contact hours:** 2 hours seminar per week

**Location and Semester Details:** Callaghan - Semester 2

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### ENGL349 Criticism and Interpretation
**Assumed Knowledge:** 20cps introductory (100 level) English subjects

A survey of mainstreams in the history of literary criticism, from classical poetics to contemporary literary theory. It examines both criticism (general statements about the nature of literature) and interpretation (the application of these statements to the understanding of specific works of literature).

**Not available in:** 2001

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL350 Race and Writing
**Assumed Knowledge:** 20cps introductory (100 level) English subjects

Investigates issues of race and empire in nineteenth century British writing. It focuses on the development of "Englishness" during the century, exploring it through English authors from the British imperial system.

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL358 Restoration Literature
**Assumed Knowledge:** A study of the literary products, and of some of the broad developments in ideas, to the social and political organisation, in the period 1660-1700.

**Contact hours:** 4 hours per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL361 Literature
**Assumed Knowledge:** Students are expected to have completed 20 credit points of English at the 100 level

Considers the construction of nineteenth-century Australia through some of its poetry, short fiction, journalism, and novels. It covers a range of canonical and other periodicals and newsmagazines in an effort to analyze novelistic constructions of nineteenth-century Australian culture.

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL364 Law and Literature
**Assumed Knowledge:** 20 credit points of English subjects at 100 level

Introduces interdisciplinary methods of studying law and literature that focuses on novels, plays and films about slavery, slavery and racism in order to examine the relationship between law, various legal systems, and social and cultural identity. It is encouraged that students will read legal documents, such as judicial opinions, and are introduced to the relevance of historical and culturally specific information to literary methods of reading and interpretation.

**Not available in:** 2001

**Contact hours:** 2 hours per week

**Location and Semester Details:** Central Coast - Semester 2

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### ENGL365 The Victorian Novel
**Assumed Knowledge:** Assumed knowledge for ENGL365 is 20 credit points of English at the 100 level

Introduces students to Victorian fiction in its historical contexts, through the study of some key Victorian novels.

**Contact hours:** 4 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 2

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### ENGL366 Australian Young Adult Fiction
**Assumed Knowledge:** Assumed knowledge for ENGL366 is 20 credit points of English at the 100 level

Provides an intensive study of Australian fiction for young adults since 1960, focusing on the context of the country's social and political history, the institutional history of Australian literature, education, and social policy, girls' youth culture, and Australian and international adult fiction.

**Not available in:** 2001

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 2

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### ENGL368 Australian Post-Novelist
**Assumed Knowledge:** Assumed knowledge for ENGL368 is 20 credit points of English at the 100 level

Beginning with Australian poems and novels from the 1960s and 1970s, this subject will go on to focus on developments in extended narrative poems in the 1980s and 1990s, and their effect on the way in which narrative fiction is written.

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL369 English Literature
**Assumed Knowledge:** Assumed knowledge for ENGL369 is 20 credit points of English at the 100 level

It focuses on the novels of Jane Austen, with particular regard to their historical context and their relevance to debates on gender and class in their time and in the present. It will be conducted in 2001.

**Contact hours:** 3 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL370 Novel into Film
**Assumed Knowledge:** Assumed knowledge for ENGL370 is 20 credit points of English at the 100 level

Surveys the aesthetics of adaptation, closely studying a small selection of films alongside the novels on which they are based.

**Not available in:** 2001

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL371 Australian Women's Writing
**Assumed Knowledge:** Assumed knowledge for ENGL371 is 20 credit points of English at the 100 level

Explores the works of Australian women's writing in the nineteenth and twentieth centuries, paying particular attention to the relationship between text and culture through an analysis of the culturing discourses of gender, race and class.

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL372 Text and technology: orality to print
**Assumed Knowledge:** 20cps of English at 100 level

Explores the development of the novel form and print to the present, with the novel as a pre-eminently society-based form of print, in the wider world of record-keeping and communication. Students will develop a project of their own creation as a way of exploring these topics beyond the classroom context.

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL373 Poetry in Action
**Assumed Knowledge:** 10cps introductory (100 level) English level or Linguistics subject

Introduces students to a range of poems, in English or in English translation, suited to reciting or reading for poetry students of primary and secondary school age.

**Contact hours:** 2 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 2

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### ENGL375 Science and Religion
**Assumed Knowledge:** Students are expected to have completed 20 credit points of English at 100 level

Considers the scientific concepts relevant to energy and the environment. The emphasis is on understanding the system which regulates and controls development and the environmental assessments required. The subject also examines the various environmental issues for influence development and introduces environmental impact assessment, the systematic approach to achieve a greater understanding of the environmental consequences of proposals. A number of case studies are used to illustrate the environment of the various types of environmental assessment in a way that stimulates the role of the professional participants.

**Contact hours:** 2 hour seminar per week and 1 hour tutorial per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL407 English Honours I
**Assumed Knowledge:** 120cps

Examinations in the basis for environmental law in Australia and concentrates on the concept of "environment" and the interpretation of legal issues. The emphasis is on understanding the system which regulates and controls development and the environmental assessments required.

**Contact hours:** 4 hour seminar per week

**Location and Semester Details:** Callaghan - Semester 2

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### ENGL410 English Honours IV
**Assumed Knowledge:** Entry to the honours program in English requires a credit average of at least 80%

Considers the scientific concepts relevant to energy and the environment. The emphasis is on understanding the system which regulates and controls development and the environmental assessments required.

**Contact hours:** 2 hour seminar per week and 1 hour tutorial per week

**Location and Semester Details:** Callaghan - Semester 1

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### ENGL412 English Honours II

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### ENGL413 English Honours III

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### ENGL414 Energy and the Environment
**Assumed Knowledge:** Level 100 science, including ENGL102 and ENGL103

Considers the scientific concepts relevant to energy and the environment. The emphasis is on understanding the system which regulates and controls development and the environmental assessments required.

**Contact hours:** 2 hour seminar per week and 1 hour tutorial per week

**Location and Semester Details:** Callaghan - Semester 2
ENJO111 International Communication 10cp

Assumed Knowledge: ENJO201, ENJO203, ENJO204, BIOL207

This subject is designed to introduce students to international communication and to consider its role in the context of the changing nature of the globalised world.

Contact hours: 3 hours per week. Includes tutorials and project work. Location and Semester Details: Callaghan - Semester 1

ENJO204 Microbiology and Food Safety 10cp

Assumed Knowledge: BIOL101 Plant and Animal Biology BIOL102 Cell Biology and BIOL103 Microbiology

Food safety practices and legislation in the context of food production. The subject will also cover the regulatory frameworks that impact on food producers and consumers

Contact hours: 6 hours per week. Location and Semester Details: Callaghan - Semester 1

ESL101 English Language Skills for International Students 10cp

Assumed Knowledge: International and exchange students should have a sound knowledge of basic written and spoken English as an adequate foundation for developing proficiency in the academic use of language.

Contact hours: 4 hours per week. Contact hours are dependent on the student's level of English as a second language and their location. Location and Semester Details: Callaghan - Semester 2

ESL105 Introductory English for Film Studies 10cp

Assumed Knowledge: None

Location and Semester Details: Callaghan - Semester 1

FILM101 Introduction to Film Studies 10cp

Assumed Knowledge: None

An introduction to the analysis, examining the basic components of film form, narrative, mise-en-scène, cinematography, editing, sound, the products of production and reception, and the role of the director and genre.

Contact hours: 2 hours per week plus film screening Location and Semester Details: Callaghan - Semester 1

FILM102 Introduction to Film History 10cp

Assumed Knowledge: None

Surveys the history of film from its origins to the present, through the close analysis of films representative of particular movements, periods, and national cinemas.

Contact hours: 2 hours per week plus film screening Location and Semester Details: Callaghan - Semester 2

FILM103 The Australian Cinema 10cp

Assumed Knowledge: Students are expected to have completed 20 cp of Introductory English for Film Studies.

Examines the role of representation - the way in which film as a medium is used to interpret and comment on the world - and its Industrial products and ideologies, focusing on the evolution of Australian cinema in its national and international context.

Contact hours: 2 hours per week. Location and Semester Details: Callaghan - Semester 1

FILM104 Transnational Film Directors 10cp

Assumed Knowledge: FILM101 is recommended as background.

Examines the work of selected film directors who have worked in several national cinemas. Location and Semester Details: Callaghan - Semester 1

FILM105 Science Fiction Fiction 10cp

Assumed Knowledge: FILM101 is recommended as background.

An introduction to the genre of science fiction, examining its origins and the importance of its role in popular culture and the evolving representation of Canadian society.

Contact hours: 2 hours per week. Location and Semester Details: Callaghan - Semester 1

FILM106 The Films of Alfred Hitchcock 10cp

Assumed Knowledge: FILM101 is recommended as background.

An examination of Hitchcock's films in detail. Includes the development of his style and his use of technological and narrative techniques.

Contact hours: 2 hours per week. Location and Semester Details: Callaghan - Semester 1

FILM107 Asian Cinema 10cp

Assumed Knowledge: FILM101 is recommended as background.


Contact hours: 2 hours per week. Location and Semester Details: Callaghan - Semester 1

FILM108 Genre Studies - The Horror Film 10cp

Assumed Knowledge: FILM101 is recommended as background.

An examination of the horror film, with an emphasis on recent developments in the genre.

Contact hours: 2 hours per week. Location and Semester Details: Callaghan - Semester 1

FILM112 Magazine Film Directors 10cp

Assumed Knowledge: FILM101 is recommended as background.

An examination of the work of selected film directors who have worked in several national cinemas. Location and Semester Details: Callaghan - Semester 1

FILM113 Classical Hollywood Cinema 10cp

Assumed Knowledge: FILM101 is recommended as background.

An introduction to the study of film and cinema. Includes an examination of the rise and fall of Hollywood as a major film industry. Location and Semester Details: Callaghan - Semester 1

FILM114 Film and Politics 10cp

Assumed Knowledge: FILM101 is recommended as background.

An introduction to the role of film and cinema in political discourse and the representation of political ideas and issues. Location and Semester Details: Callaghan - Semester 1

FILM115 Transnational Film Directors 10cp

Assumed Knowledge: FILM101 is recommended as background.

An examination of the work of selected film directors who have worked in several national cinemas. Location and Semester Details: Callaghan - Semester 1

FILM116 Film and Gender 10cp

Assumed Knowledge: FILM101 is recommended as background.

An examination of the role of gender in film and cinema. Includes an examination of the rise and fall of Hollywood as a major film industry. Location and Semester Details: Callaghan - Semester 1

FILM117 Film and Gender 10cp

Assumed Knowledge: FILM101 is recommended as background.

An examination of the role of gender in film and cinema. Includes an examination of the rise and fall of Hollywood as a major film industry. Location and Semester Details: Callaghan - Semester 1

FILM118 The Films of Alfred Hitchcock 10cp

Assumed Knowledge: FILM101 is recommended as background.

An examination of Hitchcock's films in detail. Includes the development of his style and his use of technological and narrative techniques.

Contact hours: 2 hours per week. Location and Semester Details: Callaghan - Semester 1

FILM119 Asian Cinema 10cp

Assumed Knowledge: FILM101 is recommended as background.


Contact hours: 2 hours per week. Location and Semester Details: Callaghan - Semester 1

FILM120 20th Century Classic Film Directors 10cp

Assumed Knowledge: FILM101 is recommended as background.

An examination of the work of selected film directors who have worked in several national cinemas. Location and Semester Details: Callaghan - Semester 1

FILM121 Film and the Moving Image 10cp

Assumed Knowledge: FILM101 is recommended as background.

An introduction to the study of film as a form of moving image. Includes an examination of the rise and fall of Hollywood as a major film industry. Location and Semester Details: Callaghan - Semester 1

FILM122 Film and the Body 10cp

Assumed Knowledge: FILM101 is recommended as background.

An introduction to the study of film as a form of moving image. Includes an examination of the rise and fall of Hollywood as a major film industry. Location and Semester Details: Callaghan - Semester 1

FILM123 Documentary Cinema 10cp

Assumed Knowledge: FILM101 is recommended as background.

An introduction to the study of film as a form of moving image. Includes an examination of the rise and fall of Hollywood as a major film industry. Location and Semester Details: Callaghan - Semester 1

FILM124 Sensory Film Evaluation 10cp

Assumed Knowledge: FILM101 is recommended as background.

An introduction to the study of film as a form of moving image. Includes an examination of the rise and fall of Hollywood as a major film industry. Location and Semester Details: Callaghan - Semester 1

FOOD101 Animal Science and Food Technology 10cp

Assumed Knowledge: FILM101 is recommended as background.

Animal Science and Food Technology is a food production science major for students interested in agriculture industries.

Contact hours: 2 hours per week. Location and Semester Details: Callaghan - Semester 1
FOOD411 Food Technology Honours 1 411 20cp
Assumed Knowledge: FRE262 Intermediate French II or equivalent
This course teaches the skills necessary to communicate effectively in a professional setting in French.
Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 2

FOOD412 Food Technology Honours 2 412 20cp
Assumed Knowledge: FRE262 Intermediate French II or equivalent
This course continues to develop the skills necessary to communicate effectively in a professional setting in French.
Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 2

FOOD413 Food Technology Honours 3 413 20cp
Assumed Knowledge: FRE262 Intermediate French II or equivalent
This course continues to develop the skills necessary to communicate effectively in a professional setting in French.
Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 2

FOOD414 Food Technology Honours 4 414 20cp
Assumed Knowledge: FRE262 Intermediate French II or equivalent
This course continues to develop the skills necessary to communicate effectively in a professional setting in French.
Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 2

FRE110 Elementary French I 10cp
A semester level language unit designed for those with no previous knowledge of French, containing vocabulary and concepts on speaking and understanding at the level of the language's most fundamental sentence patterns.
Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

FRE120 Elementary French II 10cp
A semester level language unit designed as the continuation of the Introductory Subject of French 100, providing vocabulary extension and further fundamental sentence patterns, still on speaking and understanding the language at an elementary level.
Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 1

FRE211 Twentieth Century Texts 10cp
Assumed Knowledge: FRE261 Intermediate French I or equivalent
Includes the study of at least two novels, with a selection of poems, theatrical excerpts, and film analyses. It focuses on political issues of 20th-century French culture.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

FRE214 Speaking French 10cp
Assumed Knowledge: FRE261 Intermediate French I or equivalent
Focuses on language acquisition for post-beginners, improving the four basic skills needed for language acquisition.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

FRE261 Intermediate French I 10cp
A comprehensive language course designed to follow FRE261, providing more advanced vocabulary and sentence patterns.
Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 2

FRE262 Intermediate French II 10cp
A comprehensive language course designed to continue the development of the language skills taught in FRE261, further developing the student's ability to communicate in French.
Contact hours: 5 hours per week
Location and Semester Details: Callaghan - Semester 2

FRE316 Reading French 40cp
Assumed Knowledge: FRE262 Intermediate French II or equivalent
Offers the study of major French language and newspaper articles as well as literary texts to broaden students' knowledge and appreciation of French culture. These texts are not available in this subject, and students are encouraged to consult with their faculty advisor.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

FRE362 French at Advanced Level 2 10cp
Assumed Knowledge: FRE361
A language course designed as a sequel to FRE361, continuing to develop the student's understanding of the language's advanced structures.
Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

FRE371 French at Advanced Level 3 10cp
Assumed Knowledge: FRE362 Advanced French I or equivalent
Advanced study of French syntactic structures, Stylistic registers and ideologies, and the development of advanced written communication skills.
Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

FRE372 French at Advanced Level IV 10cp
Assumed Knowledge: FRE371 Advanced French I or equivalent
This course continues to develop the student's ability to communicate in French, focusing on advanced grammatical structures and stylistic registers.
Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

FRE381 Modern French Studies in France 40cp
Assumed Knowledge: Completion of the equivalent of two undergraduate full-time years of study in French (100 level and 200 level). At the Candidature level.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

FRE391 Honours 10cp
This subject provides the foundation for advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE392 Honours 20cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 2

FRE393 Honours 30cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE410 Honours 40cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE411 Honours 10cp
This subject provides the foundation for advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE412 Honours 20cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 2

FRE413 Honours 30cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE414 Honours 40cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE415 Honours 10cp
This subject provides the foundation for advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE416 Honours 20cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 2

FRE417 Honours 30cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE418 Honours 40cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE419 Honours 10cp
This subject provides the foundation for advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE420 Honours 20cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 2

FRE421 Honours 30cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE422 Honours 40cp
This subject continues the advanced study in French, covering the major theories and methodologies in the field.
Contact hours: 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

FRE431 Reading French 40cp
Assumed Knowledge: FRE262 Intermediate French II or equivalent
Offers the study of major French language and newspaper articles as well as literary texts to broaden students' knowledge and appreciation of French culture. These texts are not available in this subject, and students are encouraged to consult with their faculty advisor.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1
GEOG209 Statistics and Environmental Geographical Information Systems 5p
Assumed Knowledge: GEOG101 or GEOG102 or ENVI04
Provides students with an introduction to the collection, analysis and interpretation of geographical information systems, including understanding the handling of data and the use of statistical techniques. Students are introduced to the statistical concepts and methods that are used in environmental geographical information systems. Students will also learn how to assemble, evaluate and interpret geographical data.
Location and Semester Details: Callaghan - Semester 1

GEOG210 Methods in Physical Geography 5p
Assumed Knowledge: GEOG101 or ENVI01
Designed to provide students with core skills in the collection, manipulation and preservation of spatial data and solving problems in the fields of physical geography and environmental science. The skills acquired are directly applicable to a wide range of careers and will equip students with a solid foundation for future research and employment in the physical sciences.
Location and Semester Details: Callaghan - Semester 1

GEOG211 Methods in Human Geography 5p
Assumed Knowledge: GEOG101 or appropriate equivalent 100 level subjects in the Social Sciences and Humanities
Focuses on the collection, processing and interpretation of information from a variety of sources including surveys, interviews, mapping, questionnaires and in-depth interviews. Students are expected to become familiar with key software in common use in applied human geography including Excel, Word and Maptitude. Throughout the course, students will be required to evaluate and interpret geographical information. The subject is essential preparation for third year human geography subjects, especially Advanced Methods in Human Geography, and for future geographical research.
Location and Semester Details: Callaghan - Semester 1

GEOG212 Geographies of Development 10p
Assumed Knowledge: The subject is relevant to students who have completed GEOG104 or equivalent and appropriate other 100 level subjects in the Social Sciences and Humanities. It is further complemented by other 200 level subjects in Geography (GEOG208). This subject is not suitable for students who have completed GEOG104.

GEOG213 Geographies of Development 10p
Assumed Knowledge: The subject is relevant to students who have completed GEOG104 or equivalent and appropriate other 100 level subjects in the Social Sciences and Humanities. It is further complemented by other 200 level subjects in Geography (GEOG208). This subject is not suitable for students who have completed GEOG104.

GEOG214 Outback Diversity 10p
Assumed Knowledge: Students are expected to have basic proficiency in observation, data collection, analysis and computer software.
Provides students with an understanding of the biophysical and human dimensions specific to Australian rural and semi-natural landscapes. Outback diversity, explored with training in animal and plant identification, biological survey methods (geophysics) data gathering and methods of biodiversity analysis.
Location and Semester Details: Callaghan - Semester 2

GEOG215 Advanced Methods in Human Geography 10p
Assumed Knowledge: GEOG101, GEOG102, ENVI04 or appropriate equivalent 100 level subjects in the Social Sciences and Humanities
Focuses on the collection, processing and interpretation of information from a variety of sources including surveys, interviews, mapping, questionnaires and in-depth interviews. Students are expected to become familiar with key software in common use in applied human geography including Excel, Word and Maptitude. Throughout the course, students will be required to evaluate and interpret geographical information. The subject is essential preparation for third year human geography subjects, especially Advanced Methods in Human Geography, and for future geographical research.
Location and Semester Details: Callaghan - Semester 1

GEOG216 Urban and Regional Development 10p
Assumed Knowledge: Students are expected to have basic proficiency in observation, data collection, analysis and computer software.
Provides students with an understanding of the biophysical and human dimensions specific to Australian urban and regional landscapes. Urban diversity, explored with training in animal and plant identification, biological survey methods (geophysics) data gathering and methods of biodiversity analysis.
Location and Semester Details: Callaghan - Semester 2

GEOG217 Advanced Climatology 10p
Assumed Knowledge: GEOG203, which provides a basic introduction to climate, weather, and atmospheric structure, is crucial pre-requisite for GEOG217.

GEOG218 Climate and Climate Change 10p
Assumed Knowledge: GEOG203, which provides a basic introduction to climate, weather, and atmospheric structure, is crucial pre-requisite for GEOG218.

GEOG219 Coastal Environments 10p
Assumed Knowledge: GEOG203, which provides a basic introduction to climate, weather, and atmospheric structure, is crucial pre-requisite for GEOG219.

GEOG220 Quantitative Environments 10p
Assumed Knowledge: GEOG203, which provides a basic introduction to climate, weather, and atmospheric structure, is crucial pre-requisite for GEOG220.

GEOG221 Advanced Biogeochemistry and Climate Change 10p
Assumed Knowledge: GEOG203 and either GEOG216, GEOG217 or GEOG218.

GEOG222 Coastal Dynamics, Evolution and Protection 10p
Assumed Knowledge: Students should have completed GEOG209, GEOG219 or ENVI03 plus GEOG204 and have some basic mathematical background.

GEOG223 Post-colonial Geographies 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG224 Globalisation: Cities, Economies 10p
Assumed Knowledge: GEOG207/GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG225 Coastal Environmental Change 10p
Assumed Knowledge: Students should have completed GEOG209, GEOG219 or ENVI03 plus GEOG204 and have some basic mathematical background.

GEOG226 Comparative Urbanisation 10p
Assumed Knowledge: Students should have completed GEOG209, GEOG219 or ENVI03 plus GEOG204 and have some basic mathematical background.

GEOG227 Climate Change and Development 10p
Assumed Knowledge: Students should have completed GEOG209, GEOG219 or ENVI03 plus GEOG204 and have some basic mathematical background.

GEOG228 Urban Environments 10p
Assumed Knowledge: Students should have completed GEOG209, GEOG219 or ENVI03 plus GEOG204 and have some basic mathematical background.

GEOG229 Advanced Biogeochemistry and Climate Change 10p
Assumed Knowledge: GEOG203 and either GEOG216, GEOG217 or GEOG218.

GEOG230 Coastal Environments 10p
Assumed Knowledge: GEOG203, which provides a basic introduction to climate, weather, and atmospheric structure, is crucial pre-requisite for GEOG230.

GEOG231 Coastal Dynamics, Evolution and Protection 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG232 Post-colonial Geographies 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG233 Globalisation: Cities, Economies 10p
Assumed Knowledge: GEOG207/GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG234 Comparative Urbanisation 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG235 Climate Change and Development 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG236 Urban Environments 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG237 Climate Change and Development 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG238 Urban Environments 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG239 Comparative Urbanisation 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG240 Climate Change and Development 10p
Assumed Knowledge: Students should have completed GEOG207 or GEOG213 or GEOG208 and GEOG209 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.
Assumed Knowledge: The subject is GEOG421 Geography Honours 421 assuming students a highly developed capacity to competencies are expected in statistical analysis, the use of database and spreadsheet software and simple graphical analysis using Windows-based software. Interested students should take GEOG209/GEOG211, EN203.

GEOG421 Geography Honours 411 20cp

Assumed Knowledge: Students should have completed successfully GEOG211 and GEOG212 and be enrolled in Honours 421. A one semester course will have the following content:

7.0 hours of lectures and 6.0 hours laboratory practical work each semester.

Details: Callaghan - Semester 1

GEOG216 Geology Field Course 216 10cp

Assumed Knowledge: Students attempting this subject must have successfully completed GEOG212.

A one semester course introducing basic concepts of the geology of the Sydney Basin and the field acquisition methods. The course includes a field trip to the Sydney Basin which provides a practical opportunity for students to analyse and interpret geological data. Field work and laboratory practical work are used to develop a basic understanding of the geological processes that have shaped the rocks of the Sydney Basin. Field work focuses on the geological structure of the Sydney Basin and the processes that have created it. Students are also introduced to the use of geophysical methods in determining the structure of the subsurface.

Details: Callaghan - Semester 1

GEOG315 Basin Analysis 10cp

Assumed Knowledge: Students should have completed successfully the subject GEOG212. A one semester course introduces the topic of Basin Analysis, focusing on the use of numerical and empirical testing methods and the use of various geological tools to assist in the analysis of basin formations.

Details: Callaghan - Semester 1

GEOG201 Planetary Science 101 cp

Assumed Knowledge: This course provides students with an understanding of the current understanding of the geological processes that have shaped the Earth and other planets in our solar system. The course covers topics such as the formation and evolution of the Earth, the nature of planetary surfaces, the occurrence and distribution of water on the Earth and other planets, and the potential for life on other planets. The course also explores the potential for human exploration and utilization of other planets.

Details: Callaghan - Semester 1

GEOG217 Optical Mineralogy and Igneous Petrology 10cp

Assumed Knowledge: Geology 101/102.

Provides an introduction to optical microscopy, rock fragment minerals and igneous petrology. The subject provides an overview of the fundamentals of mineralogy, including the properties of minerals, their optical properties, and the classification of igneous rocks. The subject also introduces the basic principles of petrography and the interpretation of petrographic thin sections. Students will learn to identify the major minerals in rocks and to interpret petrographic thin sections.

Details: Callaghan - Semester 1

GEOG218 Sedimentary and Metamorphic Petrology 10cp

Assumed Knowledge: Students attempting this subject must have successfully completed GEOG217.

Comprises an introduction to the petrology of sedimentary and metamorphic rocks. The course is designed for students who have completed GEOG217. The course will include topics such as the classification of sedimentary rocks, the processes of sedimentation, and the factors that control the formation of sedimentary rocks. The course will also cover the petrology of metamorphic rocks, including the processes of metamorphism and the effects of metamorphism on rock structure.

Details: Callaghan - Semester 1

GEOG321 Geology Field Course 321 10cp

Assumed Knowledge: Level 200 GEOG215 (Fieldcourse)

Geology Field Course 321 introduces students to the concepts of structural geology, deformation processes operating in the earth’s crust and the description, analysis, and interpretation of deformed rocks.

Details: Callaghan - Semester 1

GEOG1411 Geography Honours 411 20cp

Assumed Knowledge: None.

Introduces the major sub-disciplines of geography with an emphasis on the social and environmental consequences of human activity. The course covers the following topics: environmental systems, human-environment interactions, environmental planning, environmental policy, and environmental management.

Details: Callaghan - Semester 1

GEOG1412 Geography Honours 412 20cp

Assumed Knowledge: None.

Introduces the major sub-disciplines of geography with an emphasis on the social and environmental consequences of human activity. The course covers the following topics: environmental systems, human-environment interactions, environmental planning, environmental policy, and environmental management.

Details: Callaghan - Semester 1

GEOG1421 Geography Honours 421 20cp

Assumed Knowledge: None.

Introduces the major sub-disciplines of geography with an emphasis on the social and environmental consequences of human activity. The course covers the following topics: environmental systems, human-environment interactions, environmental planning, environmental policy, and environmental management.

Details: Callaghan - Semester 1
Assumed Knowledge: GER102 or equivalent

Contemporary German Texts

Assumed Knowledge: GER102 or equivalent

This subject is for students who have completed GER102 Elementary German or who have received a satisfactory result in the HSC in German. Emphasis will be placed on situational German to ensure that students are able to deal competently and appropriately with everyday situations they would encounter in German-speaking countries.

Location and Semester Details: Callaghan - Semester 1

GER321 Contemporary German Texts

Assumed Knowledge: GER102 or equivalent

Family, work and leisure in the contemporary German-speaking countries. Familiarizes students with the structure of German and its vocabulary, grammar and syntax.

Location and Semester Details: Callaghan - Semester 2

GER322 Contemporary German Texts

Assumed Knowledge: GER102 or equivalent

Language skills necessary for negotiating everyday situations in the German-speaking countries. Focuses on the development of grammatical knowledge and oral and written practice.

Location and Semester Details: Callaghan - Semester 2

GER323 Contemporary German Texts

Assumed Knowledge: GER102 or equivalent

This subject is for students who wish to develop their skills in German. Emphasis will be placed on the development of language skills and the ability to communicate effectively in everyday situations.

Location and Semester Details: Callaghan - Semester 1
HEDU1001 Foundations for Teaching 10cp
Assumed Knowledge: Nil
Introduces students to the nature of learning and the learning process. It aims to develop understanding of the role of psychology and sociological approaches to human development and differences in learning.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU1020 Teaching Language and Literacy 10cp
Assumed Knowledge: Nil
Introduces students to the nature of language development and the nature of literacy. It aims to develop understanding of the role of psychology and sociological approaches to human development and differences in learning.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU2030 Behaviour and Classroom Management 10cp
Assumed Knowledge: Nil
Introduces students to the nature of classroom management and the management of behavior in classrooms. It focuses on the development and assessment of student needs, with a strong emphasis on program development and implementation.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU2050 Field Experience 1 10cp
Assumed Knowledge: Nil
Field Experience 1 is the first in a series of field experiences that allow students to link theory to practice through stages of action research. It provides opportunities to observe and develop knowledge of classroom behaviors and strategies.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU2060 Field Experience 2 10cp
Assumed Knowledge: Field Experience 1 or equivalent
Field Experience 2 is the second in a series of field experiences that allow students to link theory to practice through action research. It provides opportunities to observe and develop knowledge of classroom behaviors and strategies.
Contact hours: 10 days in the field.
Location and Semester Details: Central Coast - Semester 2

HEDU2070 Middle Years Curriculum Planning 10cp
Assumed Knowledge: Nil
Provides students with the knowledge and skills to design and implement effective and engaging teaching and learning programs for middle years students. It focuses on the development of curriculum and assessment strategies.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU2080 Caring for Children with Special Educational Needs 10cp
Assumed Knowledge: Nil
Introduces students to the concept of special educational needs and the challenges faced by children with special needs. It focuses on the development of strategies and approaches to support these children in an inclusive learning environment.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU3010 Science and Technology in Classrooms 10cp
Assumed Knowledge: Nil
Introduces students to the role of technology in the classroom and how it can be used to enhance learning. It focuses on the development of strategies and approaches to support technology in the classroom.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU3020 Understanding Learning Difficulties 10cp
Assumed Knowledge: Nil
Introduces students to the concept of learning difficulties and how they can be identified and addressed in the classroom. It focuses on the development of strategies and approaches to support students with learning difficulties.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU3030 Data Field Experience 3 (Part A) 10cp
Assumed Knowledge: Field Experience 1 or equivalent Field Experience 2
This subject is part of a multi-term sequence. It must be completed in its entirety.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU3050 Early Childhood Literacy 10cp
Assumed Knowledge: Nil
Introduces students to the principles and practices of early childhood literacy. It focuses on the development of strategies and approaches to support early childhood literacy.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU3060 Field Experience 3 (Part B) 10cp
Assumed Knowledge: Field Experience 1 or equivalent Field Experience 2
This subject is part of a multi-term sequence. It must be completed in its entirety.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU3070 Experiencing Learning in Early Childhood 10cp
Assumed Knowledge: Nil
Introduces students to the principles and practices of early childhood learning. It focuses on the development of strategies and approaches to support early childhood learning.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU3080 Program Development and Evaluation 10cp
Assumed Knowledge: Nil
Introduces students to the principles and practices of program development and evaluation. It focuses on the development of strategies and approaches to support program development and evaluation.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU3100 Teaching in Mathematics 10cp
Assumed Knowledge: Nil
Introduces students to the principles and practices of teaching mathematics. It focuses on the development of strategies and approaches to support mathematics instruction.
Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2
HEDU321B Mathematics, Science & Technology

Assumed Knowledge: Nil

This subject is Part A of a multi-sequence. Part B must also be completed to meet the requirements of the sequence.

Provides students with an understanding of young children's development in relation to the learning of science, technology, mathematics and social studies. Students plan, implement and evaluate experiences designed for young children in the areas of science, technology, mathematics and social education.

Location and Semester Details: Central Coast - Semester 1

HEDU330 Secondary Teaching Method 2

Assumed Knowledge: N/A

This subject provides additional teaching and learning opportunities in Adolescence and Development Foundations for teaching.

Introduces students to the complex and dynamic nature of adolescent development. Students will be expected to complete research projects investigating various aspects of adolescence. The subject is designed to enhance students' understanding of adolescent development.

Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU414 Aboriginal Education

Assumed Knowledge: Nil

Focuses on the history of education since European settlement, with an emphasis on the social, political and cultural impact of education on Indigenous Australian students. Students will be guided through research and analysis of educational policies and practices.

Contact hours: 2 hours per week.
Location and Semester Details: Central Coast - Semester 2

HEDU420 Arts Curriculum

Assumed Knowledge: Nil

Examines the role of visual and performing arts in the curriculum. Students will develop an understanding of the principles and practices of arts education.

Contact hours: 2 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU430 Secondary Teaching Method 3

Assumed Knowledge: Secondary Teaching Method 1 or Secondary Teaching Method 2

Focuses on the development of teaching methods and strategies for curriculum delivery. Students will develop an understanding of the principles and practices of teaching and learning.

Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU440 Literacies across the Early Childhood Curriculum

Assumed Knowledge: Admission to the Interdisciplinary Early Childhood Program

Examines the role of literacy in early childhood education. Students will develop an understanding of the principles and practices of early childhood education.

Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU401 Teachers, Research and Practice

Assumed Knowledge: EDTE 112 plus two teaching and learning subjects as at 200 or 300 level as assessed or concurrent knowledge.

This subject focuses on the role of the teacher in a changing workplace.

Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HEDU402 Understanding Curriculum

Assumed Knowledge: EDTE 321 or equivalent Year 1 teaching and learning subject in other subject area

Develops a critical understanding of curriculum and pedagogical approaches in specific subject areas related to their major or minor teaching specialisations.

Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1

HFA100 Introduction to Art History/Theory

Assumed Knowledge: HFA101

Introduces the historical framework which informs contemporary Australian art. Students will learn about the context in which art is produced and the role of the art historian in interpreting art.

Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 2

HFA101 Art History/Theory: Aboriginal Art

Assumed Knowledge: N/A

Introduces the historical framework which informs contemporary Australian art. Students will focus on developing research and writing skills, with the ability to critically analyse cultural images and artifacts.

Contact hours: 3 hours per week.
Location and Semester Details: Central Coast - Semester 1
Planning an interdisciplinary course involves the integration of three main arts disciplines: performance, fine arts and environmental art, and involves the exploration of theoretical studies. By this stage it is expected that students in Level 3 will have acquired specialized knowledge of a specific area of art theory. Contact hours: 3 hours per week.

Location and Semester Details: Central Coast - Semester 1

HUM101 Australian Studies: Global/Local 10cp
Assumed Knowledge: None
Focuses on the problem of Australia in the global/local frame and examines the ways in which local, national and international forces interact. It considers themes such as the existence of God; the Mind/Body problem; the nature of reality (and beyond); philosophical issues such as ethics and epistemology. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2

HUM160 Introduction to Creative Writing 10cp
Assumed Knowledge: None
Introduces students to the craft of creative writing with specific emphasis on the use of invention, the creative process and the development of personal style. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2

HUM170 Australia and the World 10cp
Assumed Knowledge: Nil
Examines the relationship of Australia to the world: the context of Australia's foreign policy. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2

HUM171 The Australian Experience 10cp
Assumed Knowledge: Nil
This subject has no assumed knowledge for this subject.

Course of the Twentieth Century Rome. The approach taken is both chronological and thematic and introduces students to issues of international significance for Australia and Australia's role. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2

HUM190 Philology 2: Knowing and the real 10cp
Assumed Knowledge: None; May be taken independently of HUM190
Introduces students to the study of philosophy and develops existing skills through an introduction to critical thinking and philosophical analysis. It will develop a critical survey of some major issues in philosophy, introducing the basic concepts and theoretical issues, including the traditional account of knowledge and its problems; and develop critical and evaluative argument from primary sources. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2

HUM220 Women in Ancient Literature 10cp
Assumed Knowledge: None
Introduces students to the study of ancient Greco-Roman literature, with particular emphasis on the role of women in Athenian and Roman society. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2

HUM295 Victorian to Modern 20cp
Assumed Knowledge: Prerequisite for ENGL262 is 20 credit points of English at Level 100
ENGL262 and 362 examine the literary, philosophical and political values attributed to Shakespeare and his contemporaries in the second half of the sixteenth century and to other romantic writers. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2

HUM301 Imagined Australias: The Past 10cp
Assumed Knowledge: None
Explores the ways that Australian writers, artists and musicians have imagined Australia's past. The purpose of the subject is to introduce students to a range of approaches and methodologies for the study of literature. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2

HUM302 Imagined Australias: The Future 10cp
Assumed Knowledge: None
Seeks to extend the methods of ENGL361 and to explore new approaches. The student is expected to have completed HUM105 (or equivalent).

Examiners of representations of Australia in the future through the selection of a range of disciplines and the range of sources, the student will identify shifts in wider debates about Australian nationalism and militarism. Contact hours: 3 hours per week. Location and Semester Details: Central Coast - Semester 2
HHUM321 Ancient Cultures: The World of Greek Theatre

Assumed Knowledge: Nil

Provides an innovative approach to the study of Greek theatre through the combination of Classical studies and Drama methodology. The course aims to provide an introduction to the major works of Greek theatre, with tutorials focusing on the representation of Greek literature, and drama to be staged. The combination of literary analysis and practical exercises ensures a balanced understanding and appreciation of Greek theatre. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM322 Ancient Cultures: Sport and the Cult of the Body

Assumed Knowledge: Nil

Focuses on the origins of sport from the Olympic games through to the great modern sports. The course aims to provide an understanding of the social and cultural significance of sport, as well as its role in the development of ancient Greek society. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM323 Ancient Cultures: The Arts of Magic

Assumed Knowledge: Nil

Deals with the relationship between magic, witchcraft, religion, and the development of Western magical practices. The course aims to provide an understanding of the historical and cultural context of magical practices, as well as their role in Western society. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM340 Acting I

Assumed Knowledge: Successful completion of DRAM101 (Introduction to Drama)

Concurrent assumed knowledge: 1 subject drawn from DRAM221-224

Offers an introduction to acting and performance skills and techniques. The course aims to provide an understanding of the fundamental skills and techniques used in acting, as well as their role in the development of Western theatre. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM344 Performance Histories I

Assumed Knowledge: Successful completion of DRAM101 (Introduction to Drama)

Concurrent assumed knowledge: 1 subject drawn from DRAM221-224

Offers an introduction to the history of performance and theatre. The course aims to provide an understanding of the development of Western theatre and its role in society. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM350 Special Topic: Romance and Society 100

Assumed Knowledge: 20 credit points at 100 level English

Provides an introduction to the genre of romance in all its guises in European Literature, with a focus on the ways in which the genre reflects and shapes society. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM351 Intercultural Communication in Drama

Assumed Knowledge: 20 credit points at 100 level English

Provides an introduction to the study of intercultural communication in drama. The course aims to provide an understanding of the role of language and culture in the creation and reception of drama. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM352 Victorian to Modern

Assumed Knowledge: Assumed knowledge for HNCG301 and HNCG401

Examines the literature and cultural context of the Victorian and Modern periods. The course aims to provide an understanding of the literary and cultural trends of these periods, as well as their role in shaping modern literature. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM353 Tradition and Innovation in Modern Literature

Assumed Knowledge: Assumed knowledge for HNCG301 and HNCG401

Examines the literature and cultural context of the modern period. The course aims to provide an understanding of the literary and cultural trends of this period, as well as their role in shaping modern literature. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM354 Literature of Medieval England

Assumed Knowledge: 20 credit points at 100 level English

Provides an introduction to medieval English literature and language, focusing on the key themes and figures of this period. The course aims to provide an understanding of the development of English literature and its role in society. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM355 Gender, Narrative, and the Fantastic

Assumed Knowledge: Assumed knowledge for HNCG301 and HNCG401

Examines the role of gender and the fantastic in literature, focusing on the ways in which these themes are represented in the works of women writers. The course aims to provide an understanding of the role of gender and the fantastic in literature. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM356 Making and Telling Stories

Assumed Knowledge: While there is no assumed knowledge for this subject, students will be asked to build on their introductory skills in the interpretation of fiction, poetry, and drama, and in essay writing.

The course aims to provide an introduction to the interpretation of fiction, poetry, and drama, and in essay writing. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM359 Australian Fiction I: Living in Australia

Assumed Knowledge: 20 credit points at 100 level, introductory-level skills in the interpretation of fiction and a knowledge of the literary canon as presented at 100 level, along with skills in essay writing.

Examines the role of fiction in Australian society, focusing on the ways in which these themes are represented in the works of Australian writers. The course aims to provide an understanding of the role of fiction in society. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM360 Making and Telling Stories

Assumed Knowledge: While there is no assumed knowledge for this subject, students will be asked to build on their introductory skills in the interpretation of fiction, poetry, and drama, and in essay writing.

The course aims to provide an introduction to the interpretation of fiction, poetry, and drama, and in essay writing. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM381 Australian Children's Literature

Assumed Knowledge: Assumed knowledge for this subject, students will be asked to build on their introductory skills in the interpretation of fiction, poetry, and drama, and in essay writing.

Examines the role of Australian children's literature in society, focusing on the ways in which these themes are represented in the works of Australian children's writers. The course aims to provide an understanding of the role of children's literature. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM375 History and Film

Assumed Knowledge: It is highly desirable that students have either a background in history or a background in film studies, or both. It is assumed knowledge for HNCG301 and HNCG401.

Examines the influence of film on the development of historical ideas and the role of film in the representation of history. The course aims to provide an understanding of the role of film in the representation of history. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1

HHUM390 Philosophy of the Social Sciences

Assumed Knowledge: Assumed knowledge for HNCG301 and HNCG401

Examines the role of philosophy in the social sciences, focusing on the ways in which these themes are represented in the works of social scientists. The course aims to provide an understanding of the role of philosophy in the social sciences. It is assumed knowledge for HNCG301 and HNCG401.

Contact hours: 2 seminar hours per week. Location and Semester Details: Central Coast - Semester 1
Clear text representation of the document is not possible due to the nature of the content. It appears to be a page from a university course handbook, listing course details such as prerequisites, content, and contact hours. However, the text is not in a readable format for transcription into a plain text document.
HSS380 Child and Family Welfare

Assumed Knowledge: WST1001

This subject examines the interaction of child and family welfare in contemporary Australia. The subject is structured around a series of case studies spanning the areas of child protection, family support, disability services, and youth justice. The subject draws on a range of disciplines, including sociology, law, social work, and psychology, to provide a comprehensive understanding of the complex issues facing children and families in contemporary society.

Contact Hours: Location and Semester Details: Central Coast - Semester 2

HSS381 Australian Public Policy and Social Outcomes

Assumed Knowledge: No specific subject prerequisites. As a second-year subject, students will have to pass one or more 100 level subjects

This subject examines the relationship between public policy and social outcomes in Australia. The subject focuses on the role of government in shaping social policies and outcomes, and explores the policy-making process, including the role of stakeholders, interest groups, and the public in shaping policy outcomes.

Contact Hours: Location and Semester Details: Central Coast - Semester 2

HSS382 Welfare Inquiry: Research Theory and Methods

Assumed Knowledge: No specific subject prerequisites. As a second-year subject, students will have to pass one or more 100 level subjects

This subject provides an introduction to research methods in the field of social welfare, focusing on the development and application of research methods in social welfare. The subject covers a range of research approaches, including qualitative and quantitative research methods, and explores the ethical considerations involved in conducting research in social welfare.

Contact Hours: Location and Semester Details: Central Coast - Semester 2

HSS383 Progressive Welfare Practice 2

Assumed Knowledge: Information provided under this heading will be published on the web if appropriate, provides details of the knowledge considered desirable to facilitate success in the subject

This subject provides an introduction to progressive welfare practice, focusing on the development and application of progressive welfare practice approaches in social work. The subject covers a range of progressive welfare practice approaches, including critical social work, feminist social work, and postcolonial social work, and explores the ethical considerations involved in conducting progressive welfare practice.

Contact Hours: Location and Semester Details: Central Coast - Semester 2
HST327 Crime and Punishment in Europe 10cp

Assumed Knowledge: 20 credit points in History at 100 level or equivalent

This subject has three key themes: the meaning and influence of "crime", the administration of justice, and penal policy. These themes will be studied for various periods in the context of European societies. The subject will also examine the debate over capital punishment, the changing role of prisoners in the justice system, and the development of prison systems. The subject will also consider the impact of the European Union on the administration of justice in contemporary Europe.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

HST328 Crime and Punishment in Australia 10cp

Assumed Knowledge: 20 credit points in History at 100 level or equivalent

This subject examines the development of the criminal justice system in Australia, including the history of punishment and the role of the police. The subject will also consider the impact of recent reforms, such as the introduction of community-based sentencing, on the criminal justice system.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

HST340 Napoleon Bonaparte 20cp

Assumed Knowledge: 20 credit points in History at 100 level or equivalent

This subject examines the life and significance of Napoleon Bonaparte, the first emperor of France. The subject will consider his military campaigns, his rise to power, his impact on European politics, and his legacy.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

HST344 The Russian Revolution 20cp

Assumed Knowledge: 20 credit points in History at 100 level or equivalent

This subject examines the causes and consequences of the Russian Revolution, including the role of the Bolsheviks, the impact of World War I, and the rise of Stalin.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

HST349A A History of Australian Sport 20cp

Assumed Knowledge: 20 credit points in History at 100 level or equivalent

This subject examines the history of sport in Australia, including the development of organized sport, the influence of social and economic changes on sport, and the role of sport in shaping national identity.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

HST350 Modern Japan 20cp

Assumed Knowledge: 20 credit points in History at 100 level or equivalent

This subject examines the history of Japan, focusing on the modern period from the 19th century to the present. The subject will consider the impact of Western influence, the role of the military, and the impact of economic development.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

HST360 Women's History 500-1750 20cp

Assumed Knowledge: 20 credit points in History at 100 level or equivalent

This subject examines the history of women in Europe from the 5th century to the 17th century. The subject will consider the role of women in society, their participation in politics and religion, and their contributions to the arts and sciences.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

Undergraduate Handbook 2001
HUSB103B Human Anatomy and Physiology I (Part B) 10cp
Assumed Knowledge: Nil
This subject is Part B of a multi-term sequence. Part B must be successfully completed before undertaking Part A.

This subject is designed to introduce underlying concepts of anatomy and physiology to students preparing for the study of human biology. The subject covers two strands: the anatomy and physiology of the body, the design and structure of the various systems of the body, the anatomical structure and function of the body's tissues and organs, and the organisation of the body as a whole. The aim of this subject is to provide a foundation for the subsequent study of human biology.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

HUSB206 Human Biology 2B 8cp
Assumed Knowledge: That embodied in HUSB205
This subject continues the study of the central concepts of human biology, the fundamentals of the systems of the human body, and their interactions. The subject provides an integrated understanding of the structural and functional organisation of the body, the processes that maintain the body's homeostasis, and the responses that occur in health and disease. The subject is designed to provide a foundational knowledge in the field of human biology, and to prepare students for further study in the field.

Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2

HUSB022 Cellular and Molecular Science - Part 1 20cp
Assumed Knowledge: HUSB105 and HUSB106
This subject provides an introduction to the cellular and molecular biology of the human body. The subject is designed to provide a foundation for further study in the field of human biology, and to prepare students for further study in the field. The subject covers the concepts of cell structure and function, cell division and differentiation, and the genetic basis of human biology.

Contact hours: 14 hours per week
Location and Semester Details: Callaghan - Semester 2

HUSB233 Cellular and Molecular Science - Part 2 10cp
Assumed Knowledge: HUSB022
This subject continues the study of the cellular and molecular biology of the human body. The subject is designed to provide a foundation for further study in the field of human biology, and to prepare students for further study in the field. The subject covers the concepts of cell division and differentiation, and the genetic basis of human biology.

Contact hours: 10 hours per week
Location and Semester Details: Callaghan - Semester 2

HUSB234 Biomedical Science 3A (Nursing) 5cp
Assumed Knowledge: HUSB205 and HUSB206
This subject provides an introduction to the concepts of human biology, and to prepare students for further study in the field. The subject covers the concepts of cell structure and function, cell division and differentiation, and the genetic basis of human biology.

Contact hours: 10 hours per week
Location and Semester Details: Callaghan - Semester 1

HUSB235 Biomedical Science 3B (Nursing) 5cp
Assumed Knowledge: HUSB205, HUSB206, HUSB022 and HUSB233
This subject continues the study of the cellular and molecular biology of the human body. The subject is designed to provide a foundation for further study in the field of human biology, and to prepare students for further study in the field. The subject covers the concepts of cell division and differentiation, and the genetic basis of human biology.

Contact hours: 10 hours per week
Location and Semester Details: Callaghan - Semester 2

HUSB321 Neuroscience 10cp
Assumed Knowledge: Successful completion of Bachelor of Biomedical Science (Newcastle) Years 1 and 2
This subject provides an introduction to the concepts of human biology, and to prepare students for further study in the field. The subject covers the concepts of cell structure and function, cell division and differentiation, and the genetic basis of human biology.

Contact hours: 10 hours per week
Location and Semester Details: Callaghan - Semester 1

HUSB322 Advanced Cell and Molecular Science 10cp
Assumed Knowledge: HUSB205
This subject provides an introduction to the concepts of human biology, and to prepare students for further study in the field. The subject covers the concepts of cell structure and function, cell division and differentiation, and the genetic basis of human biology.

Contact hours: 10 hours per week
Location and Semester Details: Callaghan - Semester 1
HUPH106 Physical Education Kinetics 1B 5cp
Assumed Knowledge: N/A
Students will be introduced to the fundamental movement skills, principles of efficient motor control. Students will also examine skills and strategies related to traditional invasion games.
Contact hours: 2 hours per week practical workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH200 Exercise Physiology 4cp
Assumed Knowledge: HUPH105 Sports Science 1A or equivalent. Students are expected to have a basic knowledge of anatomy and physiology.
This subject examines the physiological basis of human movement. It covers topics such as cardiovascular, respiratory, and neuromuscular systems in relation to the regulation of the musculoskeletal system in health and disease.
Contact hours: 4 hours per week lectures and workshops. Location and Semester Details: Callaghan - Semester 2

HUPH201 Skill Acquisition 5cp
Assumed Knowledge: HUPH101 and HUPH104
This subject explains the variables that influence a learner's acquisition and performance of motor skills.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 1

HUPH202A Physical Education Studies (Part A) 5cp
Assumed Knowledge: HUPH102, PE Studies 1
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 1 hour lecture and 1 hour tutorial per week.
Location and Semester Details: Callaghan - Semester 1

HUPH202B Physical Education Studies (Part B) 5cp
Assumed Knowledge: HUPH102, PE Studies 1
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH204A Human Bioscience IIIA (Part A) 5cp
Assumed Knowledge: Satisfactory achievement in Human Bioscience IIBA. Students are expected to have a basic knowledge of anatomy and physiology.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH204B Human Bioscience IIBA (Part B) 5cp
Assumed Knowledge: Satisfactory achievement in Human Bioscience IIA. Students are expected to have a basic knowledge of anatomy and physiology.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH205A Human Physiology (Part A) 5cp
Assumed Knowledge: That embodied in the HUPH105 course to date.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 1

HUPH205B Human Physiology (Part B) 5cp
Assumed Knowledge: That embodied in the HUPH105 course to date.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH206 Sports Science IIBA 5cp
Assumed Knowledge: HUPH105, Sports Science 1A or equivalent.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH207 Exercise Physiology 10cp
Assumed Knowledge: HUPH105, Sports Science 1A or equivalent. Students are expected to have a basic knowledge of anatomy and physiology.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 1

HUPH208 Physical Education Kinetics IIBA 10cp
Assumed Knowledge: HUPH100 and HUPH106
Students will apply theoretical principles to a range of physical activity contexts.
Contact hours: 3 hours per week practical workshops.
Location and Semester Details: Callaghan - Semester 3

HUPH209 Physical Education Kinetics IICB 10cp
Assumed Knowledge: HUPH100 and HUPH106
Students will apply theoretical principles to a range of physical activity contexts.
Contact hours: 3 hours per week practical workshops.
Location and Semester Details: Callaghan - Semester 3

HUPH211 Sport Psychology 15cp
Assumed Knowledge: HUPH101 and HUPH104
Examines human behaviour in sport settings and identifies the psycho-socio-cultural factors that impact on human performance.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH212 Sport Psychology 15cp
Assumed Knowledge: HUPH101 and HUPH104
Examines human behaviour in sport settings and identifies the psycho-socio-cultural factors that impact on human performance.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH213 Exercise Physiology 10cp
Assumed Knowledge: That embodied in the HUPH105 course to date.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH214 Exercise Physiology 10cp
Assumed Knowledge: That embodied in the HUPH105 course to date.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week lectures/workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH301 Human Physiology Laboratory Practice 10cp
Assumed Knowledge: HUPH224 and HUPH225 are recommended subjects. This subject provides an introduction to the application of laboratory techniques for the assessment of human physiology.
Contact hours: 2 hours per week practical laboratories.
Location and Semester Details: Callaghan - Semester 2

HUPH302 Physical Education Kinetics III (Part A) 5cp
Assumed Knowledge: HUPH103, PE Kinetics I and HUPH203, PE Kinetics II.
This subject is Part A of a multi-term sequence. Part B must also be completed to Part A.
Contact hours: 2 hours per week workshops.
Location and Semester Details: Callaghan - Semester 1

HUPH303 Physical Education Kinetics III (Part B) 5cp
Assumed Knowledge: HUPH103, PE Kinetics I and HUPH203, PE Kinetics II.
This subject is Part B of a multi-term sequence. Part A must also be completed to Part B.
Contact hours: 2 hours per week workshops.
Location and Semester Details: Callaghan - Semester 2

HUPH304 Receptor-Electrophysiology 10cp
Assumed Knowledge: Completion of Year 2 of Bachelor of Biomedical Science or equivalent.
Students will apply theoretical principles to a range of physical activity contexts.
Contact hours: 2 hours per week practical workshops.
Location and Semester Details: Callaghan - Semester 3

HUPH305 Reflexive Control 10cp
Assumed Knowledge: That embodied in the HUPH105 course to date.
This subject introduces students to exercise physiology. It covers the physiological basis of human movement.
Contact hours: 2 hours per week practical workshops.
Location and Semester Details: Callaghan - Semester 3

HUPH306 Sports Science 3A 5cp
Assumed Knowledge: An understanding of exercise physiology is assumed. Students are expected to have successfully completed HUPH206, Sports Science 2A or an equivalent subject.
This subject treats leadership in modern Asia by means of an analysis of texts from societies like China, Japan, Indonesia, and South Asia. The text will focus on the effects of these respective societies in terms of both biographical, intellectual or political studies. The text will present students to examine and compare leadership structures, as well as the role of textual analysis to explain the effects of these respective societies on the text.
Location and Semester Details: Callaghan - Semester 1

IDS201 Life Writing in Modern Asia 10cp
Assumed Knowledge: 20 credit points at 100 level.
This subject treats leadership in modern Asia by means of an analysis of texts from societies like China, Japan, Indonesia, and South Asia. The text will focus on the effects of these respective societies in terms of both biographical, intellectual or political studies. The text will present students to examine and compare leadership structures, as well as the role of textual analysis to explain the effects of these respective societies on the text.
Location and Semester Details: Callaghan - Semester 1

IDS202 Leadership in Modern Asia 10cp
Assumed Knowledge: 20 credit points at 100 level.
This subject treats leadership in modern Asia by means of an analysis of texts from societies like China, Japan, Indonesia, and South Asia. The text will focus on the effects of these respective societies in terms of both biographical, intellectual or political studies. The text will present students to examine and compare leadership structures, as well as the role of textual analysis to explain the effects of these respective societies on the text.
Location and Semester Details: Callaghan - Semester 1

ID3023 Themes in World Literature 1 10cp
Assumed Knowledge: 40 credit points at 100 level.
This subject treats leadership in modern Asia by means of an analysis of texts from societies like China, Japan, Indonesia, and South Asia. The text will focus on the effects of these respective societies in terms of both biographical, intellectual or political studies. The text will present students to examine and compare leadership structures, as well as the role of textual analysis to explain the effects of these respective societies on the text.
Location and Semester Details: Callaghan - Semester 1

ID3024 Themes in World Literature 2 10cp
Assumed Knowledge: 40 credit points at 100 level.
This subject treats leadership in modern Asia by means of an analysis of texts from societies like China, Japan, Indonesia, and South Asia. The text will focus on the effects of these respective societies in terms of both biographical, intellectual or political studies. The text will present students to examine and compare leadership structures, as well as the role of textual analysis to explain the effects of these respective societies on the text.
Location and Semester Details: Callaghan - Semester 1
IDS310 Greek and Roman Political Theory 10cp 
Assumed Knowledge: At least 60cp at 100 level or above, including 20cp of ARS, HIS, PHIL, or POL subjects.
INFO408 Knowledge Based Systems
10cp
Assumed Knowledge: INFO304 or INFO301 and INTH20 and MATH1002 or ORG301 or INFO406.

Gives students the opportunity to investigate modern design issues, both theoretical and practical, of Knowledge Based Systems. Analysis of the algorithms used in this area includes the ability to think critically and independently, to communicate complex ideas in oral and written form, and to work independently. On successful completion, the student will have developed a sound understanding of specific areas of Information Systems.

Contact hours: By arrangement
Location and Semester Details: Callaghan - Semester 1 and 2

INFO416 Thesis in Information Systems - Part B 20cp
Assumed Knowledge: Admission to the Honours program.

Compiles a supervised original research project, usually an extensive literature review, together with a detailed practical/and/or experimental component covering systems problems.

Contact hours: By arrangement
Location and Semester Details: Callaghan - Semester 1

IRS010 Believing in Australia
10cp
Assumed Knowledge: None

Provides students with an historical introduction to religious studies in the Australian context including the major Christian traditions, Aboriginal and Torres Strait Islander religious beliefs and the world religions in Australia. The course includes an examination of religious beliefs and practices of various faith communities, such as the nature of religious belief, and whether or not religious beliefs inform the life of the believer and the formation of the self. Concepts and methods such as the nature of religious belief, and whether or not religious beliefs inform the life of the believer and the formation of the self.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

IRE302 Applied Moral Theology
Assumed Knowledge: INFO302 or equivalent.

Studies problems arising from recent social and technological developments. Topics may include health and environmental issues, international relations, the role of distribution of resources and the issues such as abortion, infanticide, marriage, and organ transplantation.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

IRE311 Phenomenology of Religion
Assumed Knowledge: 60cp at 100-level in a relevant discipline.

Focuses on the study of the relationship between religious and scientific understanding. It includes an assessment of the role of science in religion and the development of religious thought.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

IRE312 History of Religions
Assumed Knowledge: 60cp at 100-level in a relevant discipline.

Provides a cross-cultural study of the principal figures of the world’s major religious traditions, including Judaism, Christianity, Islam, Hinduism, Buddhism and Taoism.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

IRE313 Religion in the Graeco-Roman World
Assumed Knowledge: 60cp at 100-level in a relevant discipline.

A study of the religious organizations of the Graeco-Roman world, and their impact on the development of religious movements in the church. The course includes an examination of the role of science in religion and the development of religious thought.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

IRE315 Christianity: Origins to the Early Modern Period
Assumed Knowledge: 60cp at 100-level in a relevant discipline.

Provides an overview of the religious and cultural history of Christianity from its origins to the early modern period.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

IRE415 Thesis in Information Systems - Part A 10cp
Assumed Knowledge: Admission to the Honours program.

Aims to provide students with the skills to carry out research, both academic and professional, in Information Systems. The course includes the critical analysis and evaluation of the literature, the ability to think critically and independently, to communicate complex ideas in oral and written form, and to work independently. On successful completion, the student will have developed a sound understanding of specific areas of Information Systems.

Contact hours: By arrangement
Location and Semester Details: Callaghan - Semester 1 and 2

IRHR201 Introduction to Industrial Relations
Assumed Knowledge: IRHR111

Provides an introduction to the study of industrial relations and delves into essential concepts. In doing so it considers the historical dimensions of industrialisation and the origins and development of Australian industrial relations up to the present time. Further detailed attention is given to the present day structures and characteristics of unions, management, and employers associations. The course is completed by an examination of the role of the state, the implementation of and the control of anti-discrimination legislation, and how recent systemic changes affect all industrial outcomes and the workplace.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

IRHR202 Australian Industrial Relations System
Assumed Knowledge: IRHR201

Provides a detailed understanding of the contemporary features of Australia's system of industrial relations. The course covers the historical and present day structures and characteristics of unions, management, and employers' associations. The course is completed by an examination of the role of the state, the implementation and enforcement of Australian compulsory arbitration, and how recent systemic changes affect all industrial outcomes and the workplace.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 2

IRHR210C Introduction to Industrial Relations 10cp
Assumed Knowledge: IRHR111

Provides an introduction to the study of industrial relations and delves into essential concepts. In doing so it considers the historical dimensions of industrialisation and the origins and development of Australian industrial relations up to the present time. Further detailed attention is given to the present day structures and characteristics of unions, management, and employers associations. The course is completed by an examination of the role of the state, the implementation of and the control of anti-discrimination legislation, and how recent systemic changes affect all industrial outcomes and the workplace.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

IRHR220 Business Communications
Assumed Knowledge: 40cp at the 100 level

Introduces students to not just the fundamentals of oral, written and electronic communication in the modern business world but to the various forms of interpersonal and inter-group communication that are essential elements in organisational effectiveness. These include negotiation, conflict resolution, interviews and meetings. While written communication is the focus of this course, the emphasis, however, lies heavily upon practical application and this will be reflected in the assessment.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1 and 2

IRHR220C Business Communications
Assumed Knowledge: 40cp at the 100 level

Introduces students to not just the fundamentals of oral, written and electronic communication in the modern business world but to the various forms of interpersonal and inter-group communication that are essential elements in organisational effectiveness. These include negotiation, conflict resolution, interviews and meetings. While written communication is the focus of this course, the emphasis, however, lies heavily upon practical application and this will be reflected in the assessment.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1
IRHR227 Human Resource Management 10cp
Assumed Knowledge: IRHR111
Develops a critical understanding of the role and functions of the various personnel human resource managers in an organisation. Topics include job analysis and design, recruitment, selection, employee termination, training, and the impact of legislation on technological change in the human resource function.
Location and Semester Details: Callaghan - Semester 2

IRHR227C Human Resource Management 10cp
Assumed Knowledge: IRHR111
Develops a critical understanding of the role and functions of the various personnel human resource managers in an organisation. Topics include job analysis and design, recruitment, selection, employee termination, training, and the impact of legislation on technological change in the human resource function.
Location and Semester Details: Central Coast - Semester 2

IRHR228 Organisational Structures & Design 10cp
Assumed Knowledge: IRHR111 or equivalent
Focuses on the organisational issues that exist within the workplace. The course examines the problems which arise when designing effective organisations and addresses the importance of the relationship between the structure and process of organisations. It exposes students to the various theories and models of organisation design and explores the organisational structures. The course delineates the problems which arise when designing effective organisations and addresses the importance of the relationship between the structure and process of organisations. It exposes students to the various theories and models of organisation design and explores the organisational structures. The course delineates the problems which arise when designing effective organisations and addresses the importance of the relationship between the structure and process of organisations. It exposes students to the various theories and models of organisation design and explores the organisational structures. The course delineates the problems which arise when designing effective organisations and addresses the importance of the relationship between the structure and process of organisations.
Location and Semester Details: Callaghan - Semester 2

IRHR228C Organisational Structures & Design 10cp
Assumed Knowledge: Basic/Introductory Organisational Behaviour (IRHR111 or equivalent)
Focuses on fundamental issues of organisation design. It examines the problems which arise when designing effective organisations and addresses the importance of the relationship between the structure and process of organisations. It exposes students to the various theories and models of organisation design and explores the organisational structures. The course delineates the problems which arise when designing effective organisations and addresses the importance of the relationship between the structure and process of organisations. It exposes students to the various theories and models of organisation design and explores the organisational structures. The course delineates the problems which arise when designing effective organisations and addresses the importance of the relationship between the structure and process of organisations. It exposes students to the various theories and models of organisation design and explores the organisational structures. The course delineates the problems which arise when designing effective organisations and addresses the importance of the relationship between the structure and process of organisations.
Location and Semester Details: Central Coast - Semester 2

IRHR240 Australian Labour History 10cp
Assumed Knowledge: IRHR201, EMPS227 and IRHR227C or equivalent
Examines the changing nature of the Australian labour movement in Australian history. The course considers the role of labour in Australian society, especially those concerning new industrial relations and the relationship between the workplace, employers and employees.
Location and Semester Details: Callaghan - Semester 2

IRHR301 Advanced Employment Relations 10cp
Assumed Knowledge: IRHR201, EMPS227
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Callaghan - Semester 2

IRHR303 Workplace Industrial Relations 10cp
Assumed Knowledge: IRHR202
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Central Coast - Semester 1

IRHR304 Negotiation and Advocacy 10cp
Assumed Knowledge: IRHR202
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Callaghan - Semester 2

IRHR305 Industry, Employment and the Workplace 10cp
Assumed Knowledge: Pre-requisite: IRHR201 Introduction to Industrial Relations
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Callaghan - Semester 2

IRHR353 Organisational Psychology 10cp
Assumed Knowledge: It is assumed that students have little formal background in psychology but have successfully completed studies in a range of disciplines relevant to the study of human behaviour and organisation. The course is designed for students who do not have a psychology background and who want to learn about the psychology of organisations.
Location and Semester Details: Callaghan - Semester 2

IRHR354 International Human Resource Management 10cp
Assumed Knowledge: IRHR227
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Central Coast - Semester 2

IRHR354C International Human Resource Management 10cp
Assumed Knowledge: IRHR227
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Central Coast - Semester 2

IRHR355 Organisational Change 10cp
Assumed Knowledge: IRHR111 and IRHR228 or equivalent
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Central Coast - Semester 2

IRHR356 Organisational Change 10cp
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Central Coast - Semester 2

IRHR410 Indus Relations & Human Resource Management IV 10cp
Assumed Knowledge: IRHR354C International Human Resources Management IV
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Central Coast - Semester 2

IRHR412 Indus Relations & Human Resource Management IVC 10cp
Assumed Knowledge: Admission to the honours program
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Callaghan - Semester 2 and Central Coast - Semester 2

IRHR413 Indus Relations & Human Resource Management IVD 10cp
Assumed Knowledge: Admission to the honours program
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Callaghan - Semester 2 and Central Coast - Semester 2

IRHR415 Industrial Relations & HRM - Part IV 20cp
Assumed Knowledge: Admission to the honours program
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Callaghan - Semester 2 and Central Coast - Semester 2

IRHR416 Industrial Relations & HRM - Part IV 20cp
Assumed Knowledge: Admission to the honours program
Focuses on the core concepts and issues of Australian employment relations, including the nature and dynamics of workplace relations, the role of collective bargaining, and the impact of legislation on workplace relations.
Location and Semester Details: Callaghan - Semester 2 and Central Coast - Semester 2
JPN111 Elementary Japanese I 10cp
Assumed Knowledge: Nil.
A semester language class designed for those with little or no previous knowledge of Japanese. The subject provides basic foundation in pronunciation, vocabulary, grammar and the writing system of the language. The Japanese syllabaries (hiragana and katakana) are immediately introduced.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN112 Elementary Japanese II 10cp
Assumed Knowledge: JPN111
Designed for those with a knowledge of Japanese equivalent to a pass in JPN111. The subject continues to provide students with knowledge with regard to vocabulary, grammar and the writing system of the language. Approximately 150 Chinese characters are introduced.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN211 Intermediate Spoken Japanese I 10cp
Assumed Knowledge: JPN211
Designed for those with an understanding of simple Japanese. In this subject more advanced forms of Japanese are introduced including thematic and intransitive verbs, verbs of giving and receiving, honorifics, conditional and passive forms of verb.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN212 Intermediate Spoken Japanese II 10cp
Assumed Knowledge: JPN212 or equivalent
Designed for those with understanding of intermediate level Japanese grammar. In this subject students continue to practice their existing knowledge and to learn to apply their knowledge to the analysis and production of situational Japanese.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN221 Intermediate Written Japanese I 10cp
Assumed Knowledge: JPN122 or equivalent
Designed to develop a student's Japanese reading and writing skills, and further cultural knowledge. It will be mainly based on the study of the text 'Chukyu Nihonga' edited by Yuko Kageyama (Dalkey).
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN222 Intermediate Written Japanese II 10cp
Assumed Knowledge: JPN222 or equivalent
Designed to develop students' Japanese reading and writing skills and further cultural knowledge. It will be mainly based on the study of the text 'Chukyu Nihonga' edited by Yuko Kageyama (Dalkey).
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN231 Text and Cinema as Parody 10cp
Assumed Knowledge: Distinction or above in JPN112 or equivalent knowledge
Extends students' knowledge of modern Japanese grammar and vocabulary, and of modern Japanese literature and cinema, by selected readings of contemporary texts and by viewing Japanese films.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN232 Text and Cinema as Narrative 10cp
Assumed Knowledge: Distinction or above in JPN112 or equivalent knowledge
Extends students' knowledge of modern Japanese grammar and vocabulary, and of modern Japanese literature and cinema, by selected readings of contemporary texts and by viewing Japanese films.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

JPN311 Advanced Spoken Japanese I 10cp
Assumed Knowledge: JPN312 Intermediate Spoken Japanese I
Focuses on improving students' skills and building up their confidence to discuss issues of everyday life in conversational as well as formal Japanese.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN312 Advanced Spoken Japanese II 10cp
Assumed Knowledge: Advanced Spoken Japanese I
Focuses on further improving students' skills and building up their confidence to discuss issues of everyday life in conversational as well as formal Japanese.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

JPN321 Advanced Written Japanese I 10cp
Assumed Knowledge: JPN232 or equivalent
Designed to develop reading and writing skills and cultural knowledge at an advanced level. It is based on the study of essays, short stories, poems and newspapers.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN322 Advanced Written Japanese II 10cp
Assumed Knowledge: JPN321 or equivalent
Designed to develop reading and writing skills and cultural knowledge at an advanced level. It is based on the study of essays, short stories, poems and newspapers.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

JPN331 Communication in Japanese I 10cp
Assumed Knowledge: JPN232 and JPN232
Designed to develop listening, speaking, reading and writing skills in Japanese. It will be based on videos, films, newspapers, magazines, articles and in-depth special topics.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN332 Communication in Japanese II 10cp
Assumed Knowledge: JPN331 and JPN331
Designed to develop further listening, speaking, reading and writing skills in Japanese. It will be based on videos, films, newspapers, magazines, articles and in-depth special topics.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

JPN351 Advanced Japanese Language Studies I 10cp
Assumed Knowledge: Credit in any 200 level Japanese language.
Concentrates on the work of seven major poets of modern Japanese literature: Yosano Akiko (1878-1940) and focuses specifically on these poems in the period from the 20th to the 21st century. The poems will be read and translated in English. Long Essay is compulsory.
Contact hours: 2 hours lecture and 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 1

JPN352 Advanced Japanese Language Studies II 20cp
Assumed Knowledge: Credit in any 200 level Japanese language.
Concentrates on the work of seven major poets of modern Japanese literature: Yosano Akiko (1878-1940) and focuses specifically on these poems in the period from the 20th to the 21st century. The poems will be read and translated in English. Long Essay is compulsory.
Contact hours: 2 hours lecture and 1 hour tutorial per week
Location and Semester Details: Callaghan - Semester 2

JPN381 Japanese Civilization I 10cp
Assumed Knowledge: JPN312 Intermediate Written Japanese.
Develops language skills and analytical ability through the study of Japanese civilization in a broad historical perspective, using written as well as visual materials in Japanese and English. The focus is on Japanese history from ancient times to the mid-eighteenth century.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN382 Japanese Civilization II 10cp
Develops language skills and analytical ability through the study of Japanese civilization in a broad historical perspective, using written as well as visual materials in Japanese and English. The focus is on Japanese history from the mid-seventeenth century to the present times.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

JPN383 Advanced Japanese I 20cp
Assumed Knowledge: Credit to 20 points of Japanese at level 100 in total.
Only Japanese 100 level students enrolling students to proceed to a major in contrast of parallel reading and grammar classes, and provides students with the opportunity to read and comprehend the major language class.
Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

JPN384 Advanced Japanese II 20cp
Assumed Knowledge: Credit to 20 points of Japanese at level 100 in total.
Only Japanese 100 level students enrolling students to proceed to a major in contrast of parallel reading and grammar classes, and provides students with the opportunity to read and comprehend the major language class.
Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 2
This subject is not available to students enrolled in a combined law degree program. It introduces the legal framework of different forms of business as a foundation for co-operative activity with focus on partnerships, proprietorship and public companies. Emphasis is on the policy understanding of the law, allowing students to develop understanding and knowledge of the requirements of partnerships, obligations, directors’ duties and shareholders’ rights.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

Law of Employment

This subject is not available to students enrolled in a combined law degree program. It introduces the legal framework of different forms of business as a foundation for co-operative activity with focus on partnerships, proprietorship and public companies. Emphasis is on the policy understanding of the law, allowing students to develop understanding and knowledge of the requirements of partnerships, obligations, directors’ duties and shareholders’ rights.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

Assumed Knowledge: LAW101

LAW201 Competition Law and Policy

Deals generally with the operation of Part IV of the Trade Practices Act 1974. Topics include legal jurisdiction, including interstate jurisdiction, competition, monopoly, merger, price fixing, resale price maintenance and anti-competitive mergers. Reference is made to the common law relating to cartels, to the constitutional basis of the Act, but not to Consumer Protection provisions of the Trade Practices Act.

Not available in 2001.
Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 1

LAW225 Lawrence & Littoral

The law of employment analyses the various sources of law, and their interactions, which make up the relationship between an individual employer and employee: namely, legislation, awards, enterprise bargaining, unregistered agreements and the common law of contracts.

Location and Semester Details: Callaghan - Semester 1

LAW230 Contract Law

Assumed Knowledge: LAW101 foundations of Law

This subject is not available to students enrolled in a combined law degree program. Develops topics in contract introduced in LAW101 including consideration, estoppel, offers, misrepresentation, duties, wobble influence, the terms of the contract and the ending of contractual obligations, with emphasis on modification of the common law by statutes eg consumer protection provisions.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

LAW320 Contract Law

Assumed Knowledge: LAW201 foundations of Law

This subject is not available to students enrolled in a combined law degree program. Develops topics in contract introduced in LAW101 including consideration, estoppel, misrepresentation, duties, wobble influence, the terms of the contract and the ending of contractual obligations, with emphasis on modification of the common law by statutes eg consumer protection provisions.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

LAW240 Marketing Law

Assumed Knowledge: LAW101

An elective subject within the majoring subject of Bachelor of Business but also appropriate for other majors in the Bachelor of Arts, Social Science, and Commerce and Economics for students in the Bachelor of Social Science.

Seeks to examine selected aspects of the legal environment which impact on the marketing of products and services within Australia and overseas.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

LAW241 Occupational Health and Safety Law

Assumed Knowledge: None

This subject is not available to students enrolled in a combined law degree program. It introduces the legal framework of different forms of business as a foundation for co-operative activity with focus on partnerships, proprietorship and public companies. Emphasis is on the policy understanding of the law, allowing students to develop understanding and knowledge of the requirements of partnerships, obligations, directors’ duties and shareholders’ rights.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

LEIS105 Media, Culture & Society

Media Culture & Society analyses the complexity of ways of seeing and being seen by considering the following: 1) the nature of media as an artefact, and its functions as an industry, its role in nation building and the way it constructs identities; 2) the role of the media in the construction and maintenance of social order; 3) the role of the media in the construction and maintenance of social disorder; 4) the role of the media in the construction and maintenance of social identity; and 5) the role of the media in the construction and maintenance of social change. The subject will also provide an introduction to the study of media in a global context.

Contact hours: 2 lecture hours and 1 tutorial hour per week
Location and Semester Details: Callaghan - Semester 1
Assumed Knowledge: 60 cp at 200 level in Leisure, Tourism and Environmental Issues

Critical analysis of some of the relationships between leisure practices and the environment. The environment is subject to a range of stresses created by a variety of leisure activities and students wishing to work as professionals in the leisure field need to have a sound understanding of not only the relationships between leisure and the environment, but also an ability to solve problems. The subject also focuses on how cultural understandings of nature are produced and reproduced through a variety of leisure practices.

Location and Semester Details: Callaghan - Semester 2

Contacts: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LEIS315 Tourism Policy and Planning

Assumed Knowledge: 10 credit points at 100 level (LEIS111 or SOCA101) or equivalent

This subject introduces students to tourism planning and policy making. It focuses on the planning, development and management of tourist destinations and activities and issues related to tourism development such as the balance between economic development and environmental sustainability. The subject also aims to develop students' understanding of tourism planning and policy making in the context of contemporary issues.

Location and Semester Details: Callaghan - Semester 1

Contacts: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LEIS315C Tourism Policy and Planning

Assumed Knowledge: 10 credit points at 100 level in Leisure Studies or equivalent

It explores the planning, development and management of tourism destinations and activities, and issues related to tourism development such as the balance between economic development and environmental sustainability. The subject also aims to develop students' understanding of tourism planning and policy making in the context of contemporary issues.

Location and Semester Details: Callaghan - Semester 1

Contacts: 2 hours per week

Location and Semester Details: Central Coast - Semester 2

LEIS323 Applied Leisure Project

Assumed Knowledge: 10 credit points at 200 level in Leisure, Tourism and Environmental Issues

The subject aims to develop students' understanding of the planning, development and management of tourism destinations and activities and issues related to tourism development such as the balance between economic development and environmental sustainability. The subject also aims to develop students' understanding of tourism planning and policy making in the context of contemporary issues.

Location and Semester Details: Callaghan - Semester 1

Contacts: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LEIS325 Technology and Social Change

Assumed Knowledge: 60 credit points at 200 level in Leisure, Tourism and Environmental Issues

The subject aims to develop students' understanding of the planning, development and management of tourism destinations and activities and issues related to tourism development such as the balance between economic development and environmental sustainability. The subject also aims to develop students' understanding of tourism planning and policy making in the context of contemporary issues.

Location and Semester Details: Callaghan - Semester 2

Location and Semester Details: Callaghan - Semester 2

Location and Semester Details: Callaghan - Semester 2

LEIS333 Cultural Politics and the Arts

Assumed Knowledge: LEIS121 or equivalent

The subject aims to develop students' understanding of the planning, development and management of tourism destinations and activities and issues related to tourism development such as the balance between economic development and environmental sustainability. The subject also aims to develop students' understanding of tourism planning and policy making in the context of contemporary issues.

Location and Semester Details: Callaghan - Semester 1

Contacts: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LEIS337 Cultural Politics and the Arts

Assumed Knowledge: LEIS121

The subject aims to develop students' understanding of the planning, development and management of tourism destinations and activities and issues related to tourism development such as the balance between economic development and environmental sustainability. The subject also aims to develop students' understanding of tourism planning and policy making in the context of contemporary issues.

Location and Semester Details: Callaghan - Semester 1

Contacts: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LEIS341 Gender, Sexuality and Leisure

Assumed Knowledge: 60 credit points at 200 level in Leisure, Tourism and Environmental Issues

The subject aims to develop students' understanding of the planning, development and management of tourism destinations and activities and issues related to tourism development such as the balance between economic development and environmental sustainability. The subject also aims to develop students' understanding of tourism planning and policy making in the context of contemporary issues.

Location and Semester Details: Callaghan - Semester 1

Contacts: 2 hours per week
LING311 Language and Cognition

Assumed Knowledge: LING111, LING112 or equivalent.

Studies language processing and hemispheric specialization, implicating them in language acquisition processes (e.g.,streaming, Parouse, spelling, the relationship between language and other cognitive processes and universal of language development.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 1

LING311C Language and Cognition

Assumed Knowledge: LING5120, LING512C or equivalent.

Studies language processing and hemispheric specialization, implicating them in language acquisition processes (e.g.,streaming, Parouse, spelling, the relationship between language and other cognitive processes and universal of language development.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 2

LING312 Second Language Acquisition

Assumed Knowledge: LING111, LING112. Linguistic, psychological and sociopolitical perspectives on the acquisition of second language, with particular emphasis on L2 acquisition. From a functional perspective, the concept of 'interlanguage', entire analysis, transfer from first language and natural order of acquisition.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

LING313 Conversational Analysis

Assumed Knowledge: LING111 and LING112 or equivalent.

Provides the opportunity for students to study naturally occurring conversational language. Students will be required to take conversational in order to conduct, transcribe the data, and analyse significant pragmatic and discourse features of the conversation.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING314 Structure of Languages other than English

Assumed Knowledge: LING111, LING112, or equivalent.

Provides the opportunity to study a variety of syntactic constructions and grammatical processes across a range of languages, in which the student will be able to use comparative and beginning to break down and reconstruct syntactic messages.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING315 Language in Multicultural Societies

Assumed Knowledge: LING111, LING112 or equivalent.

Introduces interaction and social and cultural contexts, with a particular interest in the ethnochronology of communicative, language maintenance and language change in multicultural societies, and the influence of processes through language policy.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

LING317 Historical Linguistics

Assumed Knowledge: LING111, LING112 or equivalent.

Provides the opportunity to study the nature and development of language change, including changes in word meaning, social systems, and social and cultural structures. Processes of change are described and evaluated, and their role and influence are understood more generally across a range of language change.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING320 Speech and Language Disorders

Assumed Knowledge: LING311, LING311 Language and Cognition

Aims to provide students with an awareness of speech and language difficulties, in particular emphasis on linguistic theories, disorders and associated universal cognitive mechanisms. The student is assessed by the ability to provide students with backgrounds in linguistic, psychological or educational areas; areas include: acquired and developmental language impairment; and social, psychological and cultural conditions.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING332 Phonology and Morphology

Assumed Knowledge: LING111 or equivalent.

Introduction to phonological and morphological theory, within the modern linguistics, focusing on the analysis and description of sound structure; in English and selected additional languages.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 1

LING333 Language in Aboriginal Australia

Assumed Knowledge: LING111 or equivalent.

Aims to provide students with an awareness of language in Aboriginal societies both in the past and in the present, and in the understanding of its interactions with Aboriginal languages.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING334 Phonetics

Assumed Knowledge: LING112 or equivalent introduction to Phonetics.

Deals with the analysis and description of sound sounds, with particular emphasis on articulatory phonetics as well as introducing the physics of speech and the transducers used to analyse speech.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 1

LING335 Structure of English

Assumed Knowledge: LING111 or equivalent knowledge of elementary grammatical terminology.

Provides the grammatical knowledge necessary for a descriptive analysis of the structure of the English language. The course of major emphasis is on issues such as the description of complex sentence patterns. On completion of the subject students should be able to provide a grammatical analysis of samples of English text and be able to discuss the sources of error in English language and disallowed features.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING336 Structure of English

Assumed Knowledge: LING111 or equivalent knowledge of elementary grammatical terminology.

Provides the grammatical knowledge necessary for a descriptive analysis of the structure of the English language. The course of major emphasis is on issues such as the description of complex sentence patterns. On completion of the subject students should be able to provide a grammatical analysis of samples of English text and be able to discuss the sources of error in English language and disallowed features.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING337 Linguistics Honours I

Assumed Knowledge: Entry to Linguistics Honours is on the basis of successful completion of a Bachelor degree program which includes a major sequence in the discipline of Linguistics.

Provides the opportunity for students to pursue in Honours level the advanced study of recent developments in Linguistics. Together with advanced study of linguistic theory, students will be given the opportunity for in-depth study of areas of current interest, both in research and in society, both in the past and in society, both in the past and in society.

Contact hours: 2 hours per week

Location and Semester Details: Central Coast - Semester 1

LING338 Linguistics Honours II

Assumed Knowledge: Entry to Linguistics Honours is on the basis of successful completion of a Bachelor degree program which includes a major sequence in the discipline of Linguistics.

Provides the opportunity for students to pursue in Honours level the advanced study of recent developments in Linguistics. Together with advanced study of linguistic theory, students will be given the opportunity for in-depth study of areas of current interest, both in research and in society, both in the past and in society.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING339 Linguistics Honours III

Assumed Knowledge: Entry to Linguistics Honours is on the basis of successful completion of a Bachelor degree program which includes a major sequence in the discipline of Linguistics.

Provides the opportunity for students to pursue in Honours level the advanced study of recent developments in Linguistics. Together with advanced study of linguistic theory, students will be given the opportunity for in-depth study of areas of current interest, both in research and in society, both in the past and in society.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING340 Linguistics Honours IV

Assumed Knowledge: Entry to Linguistics Honours is on the basis of successful completion of a Bachelor degree program which includes a major sequence in the discipline of Linguistics.

Provides the opportunity for students to pursue in Honours level the advanced study of recent developments in Linguistics. Together with advanced study of linguistic theory, students will be given the opportunity for in-depth study of areas of current interest, both in research and in society, both in the past and in society.

Contact hours: 2 hours per week

Location and Semester Details: Callaghan - Semester 2

LING405 Legal Systems and Method - Part A

Assumed Knowledge: Nil.

UB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part A of a multi-term sequence. Part B must be completed to meet the requirements of the sequence.

Linguists: The Australian legal system, the constitutional framework and the development of practical situations in Australian law. The subject introduces ethical considerations for the legal profession and develops analytical and critical skills.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 1

LING407 Legal Systems and Method - Part B

Assumed Knowledge: Nil.

UB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part B of a multi-term sequence. Part A must be completed to meet the requirements of the sequence.

Linguists: The Australian legal system, the constitutional framework and the development of practical situations in Australian law. The subject introduces ethical considerations for the legal profession and develops analytical and critical skills.

Contact hours: 4 hours per week

Location and Semester Details: Callaghan - Semester 2
LLB104A Criminal Law & Procedure - Part A 10cp

Assumed Knowledge: Nil

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Introduces the principles of criminal responsibility and considers a broad range of criminal offences, major defences, aspects of criminal procedure, sentencing and the role of criminal law in society. The subject will focus upon the law of New South Wales. During a clinical component students are placed with a legal practitioner to observe the preparation and presentation of criminal cases in a Local Court.

Contact hours: 3 hour tutorial per week.

Location and Semester Details: Callaghan - Semester 1

LLB203A Torts - Part A 10cp

Assumed Knowledge: LLB103A, LLB103B, LLB104A and LLB104B for students enrolled in combined law degree programs.

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Examines the rules of law which impose liability for civil wrongs. Both common law rules and statutory schemes are considered, as well as remedies, particularly the assessment of damages.

Contact hours: 4 hour per week.

Location and Semester Details: Callaghan - Semester 1

LLB203B Torts - Part B 10cp


LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part B of a multi-term sequence. Part B must be successfully completed before undertaking Part A.

Examines the principles of contract law, including formation, consideration, capacity, privity, rights and conditions, discharge and remedies. The subject considers the functions of contract law and its limitations, contract clauses and the practical background to the law of contract together with the forces which alter its development. Each student undertakes a clinical exercise in legal drafting.

Contact hours: 4 hours per week.

Location and Semester Details: Callaghan - Semester 2

LLB303A Contracts - Part A 10cp

Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB204A, LLB204B, and LLB208B for students enrolled in combined law degree programs.

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Examines the principles of contract law, including formation, consideration, capacity, privity, rights and conditions, discharge and remedies. The subject considers the functions of contract law and its limitations, contract clauses and the practical background to the law of contract together with the forces which alter its development. Each student undertakes a clinical exercise in legal drafting.

Contact hours: 4 hours per week.

Location and Semester Details: Callaghan - Semester 2

LLB303B Contracts - Part B 10cp

Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB204A, LLB204B, and LLB208B for students enrolled in combined law degree programs.

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part B of a multi-term sequence. Part B must be successfully completed before undertaking Part A.

Examines the principles of contract law, including formation, consideration, capacity, privity, rights and conditions, discharge and remedies. The subject considers the functions of contract law and its limitations, contract clauses and the practical background to the law of contract together with the forces which alter its development. Each student undertakes a clinical exercise in legal drafting.

Contact hours: 4 hours per week.

Location and Semester Details: Callaghan - Semester 2

LLB401 Constitutional Law 10cp


LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Introduces the main theories and principles of federal constitutional law. It focuses on powers between Commonwealth and State legislatures as examined in actual judicial structure and the practical working of the Constitution and the judiciary. The subject examines the different arms of government and the operation of Australian internal affairs in this context. An introduction to rights and freedoms under the Constitution is considered.

Contact hours: 4 hours plus optional tutorial per week.

Location and Semester Details: Callaghan - Semester 1

LLB402 Administrative Law 10cp


LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Examines the exercise of statutory power by administrative agencies and the means by which administrative duties may be reviewed (in judicial or non-judicial review). The subject includes consideration of the functions and development of the Commonwealth and New South Wales Supreme Courts of New South Wales as examined in detail. The subject is utilised. Students undertake simulation exercises and attend legal office placements in the general areas of litigation and legal research.

Classes usually held at University House.

Contact hours: Up to 20 hours per week.

Location and Semester Details: Callaghan - Semester 2

LLB508A Equity 10cp


LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Examines the nature and effect of equitable remedies, equity and contract law and equitable principles. The subject is utilised. Students undertake simulation exercises and attend legal office placements in the general areas of litigation and legal research.

Classes usually held at University House.

Contact hours: Up to 20 hours per week.

Location and Semester Details: Callaghan - Semester 2

LLB516A Legal Practice 1 - Part A 5cp


LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Examines the practice of law, focusing on litigation and legal transactions and gives some emphasis to professional responsibility and ethical behaviour. The subject is utilised. Students undertake simulation exercises and attend legal office placements in the general areas of litigation and legal research.

Classes usually held at University House.

Contact hours: Up to 20 hours per week.

Location and Semester Details: Callaghan - Semester 2

LLB516B Legal Practice 1 - Part B 5cp


LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is Part B of a multi-term sequence. Part B must be successfully completed before undertaking Part A.

Examines the practice of law, focusing on litigation and legal transactions and gives some emphasis to professional responsibility and ethical behaviour. The subject is utilised. Students undertake simulation exercises and attend legal office placements in the general areas of litigation and legal research.

Classes usually held at University House.

Contact hours: Up to 20 hours per week.

Location and Semester Details: Callaghan - Semester 2
LLBS17A Legal Practice 2 - Part A 5cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305
This subject is only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LLB/DipLaw) degree program.

This subject is Part A of a multi-semester sequence. Part B must also be completed to meet the requirements of this degree program.

The subject builds upon the subject Legal Practice 1, focusing on the more advanced aspects of litigation and legal transactions. It gives some emphasis to professional responsibility and ethical behaviour. Students undertake simulation exercises and attend legal offices in litigation and legal transactions. This may include placements with members of the Newcastle bar and with firms of solicitors in Newcastle and the Hunter Region.

Contact hours: Up to 20 hours per week.
Location and Semester Details: Callaghan - Semester 1

LLBS17B Legal Practice 2 - Part B 5cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305, LLB517

This subject is only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LLB/DipLaw) degree program.

This subject is Part B of a multi-semester sequence. Part A must be successfully completed before undertaking Part B.

The subject builds upon the subject Legal Practice 1, focusing on the more advanced aspects of litigation and legal transactions. It gives some emphasis to professional responsibility and ethical behaviour. Students undertake simulation exercises and attend legal offices in litigation and legal transactions. This may include placements with members of the Newcastle bar and with firms of solicitors in Newcastle and the Hunter Region.

Contact hours: Up to 20 hours per week.
Location and Semester Details: Callaghan - Semester 2

LLBS01 Family Law 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305, LLB517

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Introduces students to the law regulating family relationships. Consists usually held at University House.
Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 1

LLBS02 Advanced Family Law 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305, LLB517

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Examines the relationship between family law and the sociology of the family in Australia, as well as the sources of Australian family law.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 2

LLBS04 Competition Law and Policy 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Deals with the major aspects of competition law and policy, including market definition, market power and restrictive trade practices.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - N/A 2001

LLBS05 Health Law 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Introduces students to a range of laws governing health issues and medical practice, which will need to be understood as scientific knowledge advances. Some legal issues considered in detail include consent to treatment, professional liability, the right to personal autonomy, and public health regulation of reproduction, medical research and euthanasia.

The LLBS05 level elective subject is offered on a rotating basis and subject to student demand.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - N/A 2001

LLBS06 Employment Law 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305, LLB517

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Deals with the law governing the formation, content and termination of an employment relationship, as well as common law remedies, which may be available in those circumstances.

The LLBS06 level elective subject is offered on a rotating basis and subject to student demand.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 2

LLBS07 Taxation Law 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305, LLB517

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is available to students enrolled in Bachelor of Laws (LLB) degree programs.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 2

LLBS08 Advanced Family Law 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305, LLB517

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Examines the relationship between family law and the sociology of the family in Australia, as well as the sources of Australian family law.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 2

LLBS10 Succession
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Introduces students to the laws governing the distribution of property on death.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 1

LLBS16 Intellectual Property Law 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject introduces students to the laws governing the existence, ownership, use and protection of intellectual property rights, including copyright, designs, patents, and trade marks. It will cover the law of breach of confidence, passing-off and deceptive trade practices.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 1

LLBS19 Legal History 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject requires the completion of English Law from before the Norman Conquest to the Judicature Acts 1873-5, with an emphasis on the development of English Law, the Renaissance and Restoration periods. Also deals with the reception of English Law into New South Wales and Australia, and its continuing developments.

The LLBS19 level elective subject is offered on a rotating basis and subject to student demand. Not available in 2001.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - N/A 2001

LLBS24 Theories and Law 10cp

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Builds on aspects of conventional legal theory (examine selected categories of Western critical theories especially in the common law world). Deals principally with strands of feminist legal theory as well as gender and substance.

The LLBS24 level elective subject is offered on a rotating basis and subject to student demand. Not offered in 2001.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - N/A 2001

LLBS26 Advanced Legal Research and Writing 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305

The subject is only available to students in their final year of study in the LLB or LLB/Dip Leg Pract.

The subject is only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is available to Bachelor of laws (LLB) students who have obtained an average mark of 75% or more in all accredited LLB subjects, and who have completed the first and second year of the Bachelor of Laws (LLB) degree program.

Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 2

LLBS27 Law Review 10cp
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB302, LLB303A, LLB303B, LLB304, LLB305

The subject is only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Develops knowledge and skills in the processes of writing, editing, publication and marketing for legal publishing. Work on this subject is particularly useful during the final year of study, the Research and Training period. Also deals with the reception of English Law into New South Wales and Australia, and its continuing developments.

Contact hours: 2 hours per week.
Location and Semester Details: Callaghan - N/A 2001
MATH112 Advanced Mathematics 120cp

Assumed Knowledge: MATH121

This subject is a sequel to MATH111 and is intended for prospective mathematics majors and those who have a strong background in mathematics. There is substantial overlap with MATH111, but MATH112 contains considerably more advanced material that is essential for the study of advanced mathematics at the university level.

MATH113C Elementary Mathematics 120cp

Assumed Knowledge: MATH112

Year 12 is decisive, and MATH113 is designed to ensure that students are comfortable with the concepts, techniques, and applications of mathematics.

MATH114 Discrete Mathematics 20cp

Assumed Knowledge: MATH112

This subject is a single semester subject that can be taken on its own or paired with MATH124. It is designed to provide a foundation for the mathematical concepts most widely used in computer science, and to introduce the student to the world of discrete mathematics and its applications.

MATH115 Calculus 20cp

Assumed Knowledge: MATH112

This subject is designed to provide a foundation for the study of advanced mathematics at the university level. It is intended for students who have completed MATH112 or have equivalent knowledge.

MATH116 Mathematical Methods for the Life Sciences 1 10cp

Assumed Knowledge: A NSW HSC mark of approximately 65 should provide sufficient background for continuing MATH117. MATH117 can be considered as assumed knowledge for MATH122 and MATH123.

MATH117 Discrete Mathematics 10cp

Assumed Knowledge: MATH111, MATH112 or MATH113C

This subject is designed to provide a foundation for the study of advanced mathematics at the university level. It is intended for students who have completed MATH112 or have equivalent knowledge.

MATH118 Engineering Mathematics 2 120cp

Assumed Knowledge: MATH114

This subject is designed to provide a foundation for the study of advanced mathematics at the university level. It is intended for students who have completed MATH114 or have equivalent knowledge.

MATH119A Elementary Mathematics 10cp

Assumed Knowledge: Mathematics that are especially relevant for intending early childhood and primary teachers. Topics include sets, number concepts, elementary geometry, coordinates, discrete mathematics and basic statistics.

Contact hours: 2 lecture hours and 2 tutorial hours per week.

Location and Semester Details: Callaghan - Semester 2
MATH22 Perspectives on Elementary Mathematics 10cp
Assumed Knowledge: MATH130
Provides students with an overview of the development of ideas of mathematics, within the context of the current state of the discipline, and their applications in everyday life.

MATH301 Linear and Set Theory 10cp
Assumed Knowledge: MATH212
Introduces the fundamental concepts of set theory, including functions, relations, and operations on sets.

MATH312 Algebra 10cp
Assumed Knowledge: MATH208 and MATH222
Introduces advanced topics in algebra, including groups, rings, and fields.

MATH317 Number Theory 10cp
Assumed Knowledge: MATH222
Introduces the theory of numbers, including divisibility, congruences, and Diophantine equations.

MATH320 An Introduction to Hilbert Space 10cp
Assumed Knowledge: MATH212
Introduces the theory of Hilbert spaces, including the basics of functional analysis.

MATH321 Seminar 10cp
Assumed Knowledge: MATH201, MATH208, MATH220, MATH222
This subject is intended to provide an introduction to the study of advanced mathematics.

MATH232 Linear Operators 10cp
Assumed Knowledge: MATH220
Provides an introduction to the theory of linear operators on finite-dimensional spaces.

MATH340 Research Topics in Mathematics 10cp
Assumed Knowledge: A good strong background in mathematics
Reviews recent research topics in modern mathematics, including applications to other areas of science.

MATH370 Differential Equations 10cp
Assumed Knowledge: MATH201, MATH203 and either MATH205 or MATH206
Introduces the theory of differential equations, including ordinary and partial differential equations.

MATH372 Topology 10cp
Assumed Knowledge: MATH212
Introduces the basic concepts of topology, including open and closed sets.

MATH374 Atmospheric and Climate Dynamics 10cp
Assumed Knowledge: MATH201, MATH203
Introduces the study of atmospheric and climate dynamics, including the basic principles of fluid dynamics.

MATH375 Financial Mathematics 10cp
Assumed Knowledge: MATH112 or MATH121
Introduces the theory of financial mathematics, including the valuation of financial instruments.

MATH378 Optimisation and Computational Mathematics 10cp
Assumed Knowledge: MATH201, MATH208 or MATH219
Introduces the theory of optimisation and computational mathematics, including numerical methods.

MATH412 Mathematics Honours 411 20cp
Assumed Knowledge: MATH412 Mathematics Honours 412
Introduces advanced topics in mathematics, including research in a specific area.

MATH422 Mathematics Honours 421 20cp
Assumed Knowledge: MATH422 Mathematics Honours 422
Introduces advanced topics in mathematics, including research in a specific area.

MATH403 Introduction to Computing 5cp
Assumed Knowledge: Nil
Introduces the basic concepts of computing, including algorithms and programming.

MECH102 Introduction to Engineering Computing 5cp
Assumed Knowledge: Nil
Introduces the basic concepts of computing, including algorithms and programming.

MECH104 Introduction to Engineering 10cp
Assumed Knowledge: Nil
Introduces the basic concepts of engineering, including mechanics and materials.

MECH105 Engineering Computations 5cp
Assumed Knowledge: Nil
Introduces the basic concepts of engineering, including mechanics and materials.

MECH201 Statics 5cp
Assumed Knowledge: MECH131, MATH212
Introduces the basic concepts of statics, including forces and equilibrium.

MECH203 Dynamics 10cp
Assumed Knowledge: MECH131, MATH212
Introduces the basic concepts of dynamics, including forces and motion.

MECH205 Engineering Computations 15cp
Assumed Knowledge: Nil
Introduces the basic concepts of engineering, including mechanics and materials.

MECH211 Engineering Drawing 5cp
Assumed Knowledge: Nil
Introduces the basic concepts of engineering, including mechanics and materials.

MECH213 Introductory Mechanics 10cp
Assumed Knowledge: Nil
Introduces the basic concepts of mechanics, including kinematics and dynamics.

MECH215 Engineering Computations 20cp
Assumed Knowledge: MECH211 Introduction to Engineering Programming
Introduces the basic concepts of engineering, including mechanics and materials.

MECH217 Mechanical Engineering Design 10cp
Assumed Knowledge: Nil
Introduces the design of mechanical components and systems.

MECH221 General Procedure for Solving Design Problems 5cp
Assumed Knowledge: Nil
Introduces the design of mechanical components and systems.

MECH223 Linear Operators 10cp
Assumed Knowledge: MATH220
Introduces the theory of linear operators on finite-dimensional spaces.

MECH224 Numerical Computations on a Computer 10cp
Assumed Knowledge: MATH220
Introduces the theory of numerical computations on a computer.

MECH225 Technical Writing 10cp
Assumed Knowledge: Nil
Introduces the theory of technical writing, including report writing.

MECH226 Design Project 10cp
Assumed Knowledge: Nil
Introduces the theory of design projects, including design and development.

MECH227 Finite Element Analysis 10cp
Assumed Knowledge: Nil
Introduces the theory of finite element analysis, including numerical methods.

MECH228 Mechanical Engineering Design 10cp
Assumed Knowledge: Nil
Introduces the design of mechanical components and systems.
MECH251 Fluid Mechanics 1 5cp
Assumed Knowledge: MECH251 Fluid Mechanics 1, MATH201 Calculus, MATH203 Ordinary Differential Equations
Topics include: hydrostatics, fluid mechanics, and fluid dynamics. The course is designed to provide a comprehensive understanding of the principles of fluid mechanics, including the study of fluid flow, conservation of mass, and energy. Contact hours: 3 hours per week.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

MECH252 Fluid Mechanics 2 10cp
Assumed Knowledge: MECH251 Fluid Mechanics 1
Topics include: analysis of fluid mechanics principles, including the application of the Navier-Stokes equations to fluid flow problems, the study of boundary layer theory, and the analysis of the behavior of fluids in turbulent flow. Contact hours: 6 hours per week.

Contact hours: 6 hours per week
Location and Semester Details: Callaghan - Semester 2

MECH253 Compressible Aerodynamics 7cp
Assumed Knowledge: MECH251 Fluid Mechanics 1, MECH252 Fluid Mechanics 2, MECH271 Thermodynamics 1
Topics include: the study of compressible flow, including the analysis of the behavior of fluids in supersonic and hypersonic flow, and the study of the effects of compressibility on the behavior of fluids in laminar and turbulent flow. Contact hours: 1 hour per week.

Contact hours: 1 hour per week
Location and Semester Details: Callaghan - Semester 2

MECH285 Computer Simulation and Modelling 10cp
Assumed Knowledge: MECH251 Fluid Mechanics 1, MECH252 Fluid Mechanics 2
The course is designed to provide a comprehensive understanding of the principles of fluid mechanics, including the study of fluid flow, conservation of mass, and energy. Contact hours: 3 hours per week.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

MECH446 Compressible Aerodynamics 10cp
Assumed Knowledge: MECH251 Fluid Mechanics 1, MECH252 Fluid Mechanics 2
The course is designed to provide a comprehensive understanding of the principles of fluid mechanics, including the study of fluid flow, conservation of mass, and energy. Contact hours: 6 hours per week.

Contact hours: 6 hours per week
Location and Semester Details: Callaghan - Semester 2
Semester 1

These processes involve bringing together many concepts including marketing, functional teams, test marketing and simulated test markets, promotional mix, product or service. The result of successful business venturing is a viable enterprise, prospects for interactive marketing.

Location and Semester Details:

MKTG203
Contact hours: 3 hours per week

MKTG201 Marketing Research
Assumed Knowledge: MKTG200
Exams the role of research in detecting and testing business opportunities and demonstrates the application of research methods and techniques to market research design and analysis. Students apply marketing concepts and theories to design and implement marketing research projects.

Assumed Knowledge: MKTG200
Examines the role of the entrepreneur in developing and testing new business ideas. Topics include entrepreneurship and businesses, franchise, management buyouts and buyinns, corporate venturing and development.

Assumed Knowledge: Approval Head of School
Examines the role of marketing research in marketing strategy, marketing planning and development. It is designed to enable students to use existing research to promote marketing initiatives and to develop new research projects.

MKTG300 Strategic Marketing Management
Assumed Knowledge: MKTG201
Develops students' ability to apply various principles and theories to specific products, services and situations. The emphasis is on the application of marketing strategies to different economic environments as well as different competitive environments. A practical approach to strategy is encouraged.

MKTG300C Strategic Marketing Management
Assumed Knowledge: MKTG201C
Develops students' abilities to apply various principles and theories to specific products, services and situations. The emphasis is on the application of marketing strategies to different economic environments as well as different competitive environments. A practical approach to strategy is encouraged.

MKTG301 Project in Marketing (Part A)
Assumed Knowledge: MKTG201
This subject is Part A of a multi-term sequence. Part B must also be undertaken to meet the requirements of the program.

MKTG301A Project in Marketing (Part A)
Assumed Knowledge: MKTG201
This subject is Part A of a multi-term sequence. Part B must also be undertaken to meet the requirements of the program.

MKTG302 Business Venturing
Assumed Knowledge: MKTG201
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG302C Business Venturing
Assumed Knowledge: N/A
Examines the complex and competitive processes of creating new businesses. Topics include bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive, and a marketable product or service. Students complete a group based project over a full year, which involves applying theory to a practical business problem. At the end of the study the group must present the business implications of their work.

MKTG303 Business to Business Marketing
Assumed Knowledge: N/A
Examines an understanding of business markets, the business marketing environment and the supply of marketing to business-to-business markets. Includes producers of goods and services, intermediaries, small and medium enterprises and large corporations. The emphasis is on the application of marketing strategy and methodology to marketing to business to business markets.

MKTG304 Services Marketing
Assumed Knowledge: MKTG200
Examines the marketing strategies and environments for business-to-business marketing. The emphasis is on the application of marketing strategy and methodology to marketing to business to business markets.

MKTG306 Retail Management
Assumed Knowledge: MKTG200
Examines the impact of retailing on the distribution system and its role in the overall marketing process. It examines retail development and retailing in the international environment. The emphasis is on the application of marketing strategy and methodology to marketing to business to business markets.

MKTG307 International Marketing
Assumed Knowledge: MKTG100 MKTG200
Examines the complexities of marketing in an international environment, with particular reference to the commercial marketing strategies of large multinational companies. The emphasis is on the application of marketing theory in international marketing.

MKTG308 Entrepreneurship
Assumed Knowledge: MKTG300C
Examines the theory, practice and nature of entrepreneurship. Topics include the role of the entrepreneur in developing and testing new business ideas. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive, and a marketable product or service. Students complete a group based project over a full year, which involves applying theory to a practical business problem. At the end of the study the group must present the business implications of their work.

MKTG309 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of marketing in marketing strategy, marketing planning and development. It is designed to enable students to use existing research to promote marketing initiatives and to develop new research projects.

MKTG310 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG311 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG312 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG313 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG314 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG315 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG316 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG317 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG318 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG319 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG320 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG321 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG322 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.

MKTG323 Marketing and Enterprise IV
Assumed Knowledge: Approval Head of School
Examines the role of entrepreneurship in creating new businesses. This involves bringing together many concepts including marketing, human resource, personal commitment and entrepreneurial drive. It also examines product or service, and the role of successful business venturing in a competitive market environment. Students also examine the nature of successful business venturing in a viable enterprise.
MKTG415 Thesis in Marketing and Enterprise I 20cp

Assumed Knowledge: Admission to the Honours program

Develops research skills and demonstrates the student's command of theory and research methods through their application to an original piece of empirical research. The thesis consists of approximately 20,000 words; the subject is normally offered in a single academic year over one semester. Students must develop competence in reviewing the relevant literature, designing research, and applying theoretical and research methodologies, undertaking a substantial research project in a research field.

Contact hours: By arrangement

Location and Semester Details: Callaghan - Semester 1 and 2

MKTG416 Thesis in Marketing and Enterprise II 20cp

Assumed Knowledge: Admission to the Honours program

Provides students with an opportunity to develop research skills and demonstrate their command of theory and research methods through their application in an original piece of research.

Contact hours: By arrangement

Location and Semester Details: Callaghan - Semester 1 and 2

MNGT319 International Business Issues 10cp

Assumed Knowledge: ECON247

Explores the dual themes of understanding significant contemporary international business issues and analyzing case studies in international business that reflect these issues. Current issues include the implications of the Internet and information technology, the humanization of international business regulations, strategic alliances and the future of the global firm, regionalization and international business opportunities, competitive strategies for small and medium-sized firms in a global economy.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 2

MNGT320 Global Business Management 10cp

Assumed Knowledge: Nil

Provides students with an understanding of the strategies and practice of strategic management and their role in modern management frameworks, whereby it seeks to integrate the strategic and operational theories of marketing and human resources management.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 2

MNGT301 Strategic Management 10cp

Assumed Knowledge: Nil

Develops an understanding of theories and practice of strategic management and their role in modern management frameworks. It seeks to integrate the strategic and operational theories of marketing and human resources management.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 1 and 2

MKTG411 Management IVB

Assumed Knowledge: Admission to the Honours program

Explores students' command of empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.

Contact hours: By arrangement

Location and Semester Details: Callaghan - Semester 1 and 2

MKTG412 Management IVC

Assumed Knowledge: Admission to the Honours program

Explores students' command of empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.

Contact hours: By arrangement

Location and Semester Details: Callaghan - Semester 1 and 2

MKTG413 Management IVD

Assumed Knowledge: Admission to the Honours program

Explores students' command of empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.

Contact hours: By arrangement

Location and Semester Details: Callaghan - Semester 1 and 2

MKTG414 Management V

Assumed Knowledge: Admission to the Honours program

Explores students' command of empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.

Contact hours: By arrangement

Location and Semester Details: Callaghan - Semester 1 and 2

MKTG415 Thesis in Management - I 20cp

Assumed Knowledge: Admission to the Honours program

Develops research skills and demonstrates the student's command of theory and research methods through their application in an original piece of empirical research. The thesis is of approximately 20,000 words; the subject is normally offered in a single academic year over two semesters. Students must develop competence in reviewing the relevant literature, designing research, and applying theoretical and research methodologies, undertaking a substantial research project in a research field.

Contact hours: By arrangement

Location and Semester Details: Callaghan - Semester 1 and 2

MKTG416 Thesis in Management - II 20cp

Assumed Knowledge: Admission to the Honours program

Develops research skills and demonstrates the student's command of theory and research methods through their application in an original piece of empirical research. The thesis is of approximately 20,000 words; the subject is normally offered in a single academic year over two semesters. Students must develop competence in reviewing the relevant literature, designing research, and applying theoretical and research methodologies, undertaking a substantial research project in a research field.

Contact hours: By arrangement

Location and Semester Details: Callaghan - Semester 1 and 2

MKTG395 Business Project 1 5cp

Assumed Knowledge: Nil

A research project that is designed to build on the students' knowledge, skills and attitudes developed in MKTG226 and MKTG227.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 2

MKTG396 Business Project 2 5cp

Assumed Knowledge: Nil

A research project that is designed to build on the students' knowledge, skills and attitudes developed in MKTG226 and MKTG227.

Contact hours: 3 hours per week

Location and Semester Details: Callaghan - Semester 2

MRTS402A Seminars in Medical Radiation Science (Part A) 10cp

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or equivalent. Concurrent enrolment in MRTS401

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

MRTS402B Seminars in Medical Radiation Science (Part B) 10cp

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or equivalent. Concurrent enrolment in MRTS401

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

MRTS403A Research Project in Med Rad Theory (Part A) 20cp

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or equivalent.

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

MRTS403B Research Project in Med Rad Practice (Part B) 20cp

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or equivalent.

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

MRTC104 Medical Radiation Techniques (Part A) 10cp

Assumed Knowledge: Nil

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

MRTC105 Medical Radiation Techniques (Part B) 10cp

Assumed Knowledge: Nil

This subject is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.

MRTC106 Medical Computing 5cp

Assumed Knowledge: Nil

This subject is designed to develop the students' knowledge, skills and attitudes required in diagnostic radiography, radiation therapy, or nuclear medicine, so that the student can undertake clinical and research skills to manage patients/client and undertake professionally orientated practice and procedures. General learning outcomes include long learning skills in critical appraisal, self-learning, communication (oral and written) and professional practice.

Location and Semester Details: Callaghan - Semester 1

MRTC107 Medical Clinical Applications 5cp

Assumed Knowledge: Nil

This subject is designed to develop the students' knowledge, skills and attitudes required in diagnostic radiography, radiation therapy, or nuclear medicine, so that the student can undertake clinical and research skills to manage patients/client and undertake professionally orientated practice and procedures. General learning outcomes include long learning skills in critical appraisal, self-learning, communication (oral and written) and professional practice.

Location and Semester Details: Callaghan - Semester 1 and 2

MRTC201 Medical Clinical Applications II (Part A) 10cp

Assumed Knowledge: Clinical Applications I

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

MRTC202 Medical Clinical Applications II (Part B) 10cp

Assumed Knowledge: Clinical Applications I

This subject is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.
MRTC205B Clinical Studies II (Part B) 5cp
Assumed Knowledge: Clinical Applications I

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
This subject provides the student with the opportunity to experience, apply, and develop professionally relevant knowledge, skills, and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. Students undertake professionally oriented practice in the clinical environment. Practical placement is for four weeks in Semester 1 and for four weeks in Semester 2.
Location and Semester Details: Caffaghan - Semester 2

MRTC360A Clinical Applications III (Part A) 10cp
Assumed Knowledge: MRTC205 Clinical Applications II

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Clinical placement is for four weeks pre-semester 1, 4 weeks in Semester 1, and for four weeks in Semester 2. This subject provides the student with the opportunity to experience, apply, and develop professionally relevant knowledge, skills, and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in medical procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. Students undertake professionally oriented practice in the clinical environment.
Location and Semester Details: Caffaghan - Semester 2

MRTC360B Clinical Applications III (Part B) 10cp
Assumed Knowledge: MRTC205 Clinical Applications II

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Clinical placement is for four weeks pre-semester 1, 4 weeks in Semester 1, and for four weeks in Semester 2. This subject provides the student with the opportunity to experience, apply, and develop professionally relevant knowledge, skills, and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in medical procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. Students undertake professionally oriented practice in the clinical environment.
Location and Semester Details: Caffaghan - Semester 2

MRTC314 Ultrasonic Physics
Assumed Knowledge: None

Develops knowledge about the physics of medical ultrasound. Issues include the interaction processes of sound it interacts with the tissues of the body and with the transducer; the production and display of images; the use of Doppler ultrasound to detect abnormal blood flow in blood vessels; and the applications of ultrasound to medical diagnosis, including imaging of cranial ultrasound in the neonatal intensive care unit, and the measurement of velocity, acceleration, time, and distance (both in vivo and in vitro). Contact hours: 2 hours per week.
Location and Semester Details: Caffaghan - Semester 1

MRTC315 Digital Imaging
Assumed Knowledge: None

Develops knowledge about the physics & instrumentation of digital imaging in medical disciplines. Includes the interaction processes of sound it interacts with the tissues of the body and with the transducer; the production and display of images; the use of Doppler ultrasound to detect abnormal blood flow in blood vessels; and the applications of ultrasound to medical diagnosis, including imaging of cranial ultrasound in the neonatal intensive care unit, and the measurement of velocity, acceleration, time, and distance (both in vivo and in vitro). Contact hours: 2 hours per week.
Location and Semester Details: Caffaghan - Semester 1

MRTC201A Diagnostic Instrument (Part A) 5cp
Assumed Knowledge: MRTC101, MRTC102

This subject is Part A of a multi-term sequence. Part B must be successfully completed before undertaking Part B.
BEds the introduction to medical radiation science physics & instrumentation developed in Year 1. It presents the principles of the radiographs used in X-ray, Computed Tomography (CT), and Magnetic Resonance Imaging (MRI). Contact hours: 3 hours per week.
Location and Semester Details: Caffaghan - Semester 1

MRTC201B Diagnostic Instrument (Part B) 5cp
Assumed Knowledge: MRTC101, MRTC102

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
BEds the introduction to medical radiation science physics & instrumentation developed in Year 1. It presents the principles of the radiographs used in X-ray, Computed Tomography (CT), and Magnetic Resonance Imaging (MRI). Contact hours: 3 hours per week.
Location and Semester Details: Caffaghan - Semester 1

MRTC311 Nuclear Medicine Instrument II 5cp
Assumed Knowledge: MRTC205 Nuclear Medicine Instrument I

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
This subject is designed to build on the knowledge developed in MRTC311 Nuclear Medicine Instrument I and is intended to present radiation therapy students with an introduction to the physics and instrumentation of radiopharmaceuticals and nuclear medicine imaging techniques. Contact hours: 2 hours per week.
Location and Semester Details: Caffaghan - Semester 2

MRTC312A Nuclear Medicine Techniques II (Part A) 10cp
Assumed Knowledge: MRTC211 Nuclear Medicine Techniques I

This subject is Part A of a multi-term sequence. Part B must be successfully completed before undertaking Part B.
Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcomes. The professional specific area of study examines the issues of radiopharmaceuticals in Nuclear Medicine imaging procedures. Includes an introduction to the basic principles underlying the use of the various radiopharmaceuticals and nuclear medicine imaging techniques. The role of the nuclear medicine practitioner in critical appraisal, self learning, communication (oral and written), evaluation, evidence-based practice, and research skills.
Contact hours: 4 hours per week.
Location and Semester Details: Caffaghan - Semester 1

MRTC312B Nuclear Medicine Techniques II (Part B) 10cp
Assumed Knowledge: MRTC211 Nuclear Medicine Techniques I

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcomes. The professional specific area of study examines the issues of radiopharmaceuticals in Nuclear Medicine imaging procedures. Includes an introduction to the basic principles underlying the use of the various radiopharmaceuticals and nuclear medicine imaging techniques. The role of the nuclear medicine practitioner in critical appraisal, self learning, communication (oral and written), evaluation, evidence-based practice, and research skills.
Contact hours: 4 hours per week.
Location and Semester Details: Caffaghan - Semester 1

MRTC320A Diagnostic Radiography Techniques (Part A) 10cp
Assumed Knowledge: MRTC104 Medical Radiation Techniques I

This subject is Part A of a multi-term sequence. Part B must be successfully completed before undertaking Part B.
Builds on the Year 1 subject MRTC104. The two key components of this subject are further developed: specific professional learning and outcomes, and generic graduate learning and outcomes. Professional specific area of study examines the issues of radiopharmaceuticals and nuclear medicine imaging techniques. The role of the nuclear medicine practitioner in critical appraisal, self learning, communication (oral and written), evaluation, evidence-based practice, and research skills.
Location and Semester Details: Caffaghan - Semester 1

MRTC320B Diagnostic Radiography Techniques (Part B) 10cp
Assumed Knowledge: MRTC104 Medical Radiation Techniques I

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Builds on the Year 1 subject MRTC104. The two key components of this subject are further developed: specific professional learning and outcomes, and generic graduate learning and outcomes. Professional specific area of study examines the issues of radiopharmaceuticals and nuclear medicine imaging techniques. The role of the nuclear medicine practitioner in critical appraisal, self learning, communication (oral and written), evaluation, evidence-based practice, and research skills.
Location and Semester Details: Caffaghan - Semester 1

MRTC321A Diagnostic Nuclear Medicine Techniques I (Part A) 10cp
Assumed Knowledge: MRTC101 Medical Radiation Techniques I

This subject is Part A of a multi-term sequence. Part B must be successfully completed before undertaking Part B.
Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcomes. The professional specific area of study examines the issues of radiopharmaceuticals in Nuclear Medicine imaging procedures. Includes an introduction to the basic principles underlying the use of the various radiopharmaceuticals and nuclear medicine imaging techniques. The role of the nuclear medicine practitioner in critical appraisal, self learning, communication (oral and written), evaluation, evidence-based practice, and research skills.
Contact hours: 4 hours per week.
Location and Semester Details: Caffaghan - Semester 2

MRTC321B Diagnostic Nuclear Medicine Techniques I (Part B) 10cp
Assumed Knowledge: MRTC101 Medical Radiation Techniques I

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcomes. The professional specific area of study examines the issues of radiopharmaceuticals in Nuclear Medicine imaging procedures. Includes an introduction to the basic principles underlying the use of the various radiopharmaceuticals and nuclear medicine imaging techniques. The role of the nuclear medicine practitioner in critical appraisal, self learning, communication (oral and written), evaluation, evidence-based practice, and research skills.
Contact hours: 4 hours per week.
Location and Semester Details: Caffaghan - Semester 2

MRTC330 Nuclear Medicine Instrumentation II 5cp
Assumed Knowledge: MRTC205 Nuclear Medicine Instrument I

This subject is designed to build on the knowledge developed in MRTC330 Nuclear Medicine Instrument I and is intended to present radiation therapy students with an introduction to the physics and instrumentation of radiopharmaceuticals and nuclear medicine imaging techniques. Contact hours: 2 hours per week.
Location and Semester Details: Caffaghan - Semester 2

MRTC331 Nuclear Medicine Instrument II 5cp
Assumed Knowledge: MRTC205 Nuclear Medicine Instrument I

This subject is designed to build on the knowledge developed in MRTC330 Nuclear Medicine Instrument I and is intended to present radiation therapy students with an introduction to the physics and instrumentation of radiopharmaceuticals and nuclear medicine imaging techniques. Contact hours: 2 hours per week.
Location and Semester Details: Caffaghan - Semester 2
MRTT121A Techniques in Radiation Therapy I (Part A) 5cp
Assumed Knowledge: Medical Radiation Techniques I
This subject is Part A of a multi-term sequence. Part B must also be completed before undertaking Part A.
Further develops the key components of the subject, specific professional knowledge and outcomes, and generic graduate learning and outcomes. The professional specific area of study examines the issues of radiation therapy simulation, planning, and treatment. Generic knowledge develops life-long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.
Location and Semester Details: Callaghan - Semester 1

MRTT141A Techniques in Radiation Therapy I (Part A) 10cp
Assumed Knowledge: Medical Radiation Techniques I
This subject is Part A of a multi-term sequence. Part B must also be completed before undertaking Part A.
Further develops the key components of the subject, specific professional knowledge and outcomes, and generic graduate learning and outcomes. The professional specific area of study examines the issues of radiation therapy simulation, planning, and treatment. Generic knowledge develops life-long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.
Location and Semester Details: Callaghan - Semester 1

MRTT141B Techniques in Radiation Therapy I (Part B) 10cp
Assumed Knowledge: Medical Radiation Techniques I
This subject is Part B of a multi-term sequence. Part B must also be completed before undertaking Part B.
Further develops the key components of the subject, specific professional knowledge and outcomes, and generic graduate learning and outcomes. The professional specific area of study examines the issues of radiation therapy simulation, planning, and treatment. Generic knowledge develops life-long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.
Location and Semester Details: Callaghan - Semester 2

MUSI112 Materials of Music 1 5cp
Assumed Knowledge: Admission to the course
An elementary study of music, aural comprehension and sight-reading. The study of music provides a basic harmonic and contrapuntal understanding in all styles of music composed in the period of sacred church music. The study of aural comprehension covers the basics of sight-reading, vocal and physical musical education. The study of sight-singing covers the basics of sight-singing and the necessary knowledge to produce the sound correctly. 

MUSI113 Materials of Music 2 5cp
Assumed Knowledge: MUSI1212
The study of aural comprehension at this level provides a basic knowledge of music and the ability to write music. The study of music provides a basic knowledge of music and the ability to write music. 

MUSI150 Materials of Music 1 5cp
Assumed Knowledge: Nil
This subject provides an introduction to the music of the Western world. The course is divided into four main sections: sound, style, time, and genre. The course covers a wide range of historical periods and regions, from the Middle Ages to the present day. 

MUSI151 Materials of Music 2 5cp
Assumed Knowledge: MUSI150
This subject provides an introduction to the music of the Western world. The course is divided into four main sections: sound, style, time, and genre. The course covers a wide range of historical periods and regions, from the Middle Ages to the present day. 

MUSI154 Principal Instrument (Performance/ Studio Studies) 2 10cp
Assumed Knowledge: Admission to the course
Student should have completed MUSI150. This subject provides students with a solid foundation in performing and studio teaching. Contact hour: 1 hour per week

MUSI158 Principal Study Double Major 10cp
Assumed Knowledge: Admission to the course
Student should have completed MUSI154. This subject provides students with a solid foundation in performing and studio teaching. Contact hour: 1 hour per week
Semesters 1 and 2
FacultY
examined may include: software for musical accompaniment providing the student instruction in music enabling students to customise music to suit their requirements; and/or operating environment these skills in a classroom situation through lectures, demonstrations and workshops. The study of sight-reading exercises these areas with an emphasis on producing the sound rather than notation. Availability in Semester 1 subject to student numbers. Please consult the Faculty Office.
Contact hours: 1 hour lecture and 2 hour tutorials per week
Location and Semester Details: Conservatorium - Semester 1 and 2
MUS121 Materials of Music 3
Assumed Knowledge: MUS112
Harmony at this level provides a significant extension of the study of harmonic and contrapuntal procedures studied at the 100 level. This course expands the comprehension of harmonic and contrapuntal techniques through sequential and applied harmonic structures, diatonic melody and rhythm, and an extensive study of scales and forms, including an introduction to the chords of 8th, 13th. At this level, the build on the skills acquired during the 100 level. Skill development is continued in line with new harmonic structures and techniques. The study of sight-reading exercises these areas with an emphasis on producing the sound rather than notation. Availability in Semester 1 subject to student numbers. Please consult the Faculty Office.
Contact hours: 1 hour lecture and 1 hour tutorial per week
Location and Semester Details: Conservatorium - Semester 1
MUS122 Materials of Music 4
Assumed Knowledge: MUS112
Harmony at this level provides a significant extension of the study of harmonic and contrapuntal techniques through greater chordal and tonal complexities. Further study is conducted in the chords of 8th, 13th and 16th levels. Students are required to complete the previous music knowledge and skills courses for the 100 level. Skill development is continued in line with new harmonic structures and techniques. The study of sight-reading exercises these areas with an emphasis on producing the sound rather than notation. Availability in Semester 1 subject to student numbers. Please consult the Faculty Office.
Contact hours: 1 hour lecture and 1 hour tutorial per week
Location and Semester Details: Conservatorium - Semester 1 and 2
MUS123 Audio Techniques
Assumed Knowledge: MUS112
Designed to provide the musician with sufficient knowledge and practical skills in enable an elementary operation of professional and high-level audio equipment. The operation of midfield procedures with appropriate technological skills, and elements involved is producing a multitrack recording. Additionally, students cover the operation of a chemistry of audio equipment.
Availability subject to student numbers. Please consult the Faculty Office.
Contact hours: 3 hours per week
Location and Semester Details: Conservatorium - Semester 1
MUS124 Orchestration
Assumed Knowledge: MUS112
Musical knowledge equivalent to MUS112
The study of Orchestration is designed to give students a solid foundation in the basics of orchestration and composition, and an appreciation of orchestral ensembles and to develop their knowledge of the range and combinations of instruments used in orchestral music. The study of using instruments and techniques features the student to perceive color and texture as musicians use them to create mood and atmosphere. The study of rhythm and orchestral settings, provides students with the skill for blending these instruments together (ensemble in wind and string), and the study of brass, woodwind and percussion, provides students with the skill for blending these instruments together (ensemble in wind and string). Students also include composing and conducting, including the use of percussion, keyboard and harp are given thought and consideration for the student to use the larger orchestral texture.
Availability subject to student numbers. Please consult the Faculty Office.
Contact hours: 1 hour per week
Location and Semester Details: Conservatorium - Semester 1
Semester
Semesters 1 and 2

**Semesters 1 and 2**

Dealing with techniques for teaching instruments and vocal studies in one-to-one settings such as in a private music teaching studio. Various instrumental techniques and teaching methods are taught.

**Semesters 1 and 2**

Dealing with techniques for teaching instruments and vocal studies in one-to-one settings such as in a private music teaching studio. Various instrumental techniques and teaching methods are taught.

Semesters 1 and 2

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Semesters 1 and 2

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Semesters 1 and 2

Dealing with techniques for teaching instruments and vocal studies in one-to-one settings such as in a private music teaching studio. Various instrumental techniques and teaching methods are taught.
MUSI350 Principal Study 5
10cp
Assumed Knowledge: MUSI252

Advanced level studies in practical music, composition and church music. The syllabus for each instrument, composition and church music describes in detail the minimum requirements and standards at this level. Additional topics include advanced level study of orchestration, the major and minor key, advanced music production techniques and the critique of music. Contact hours: 2 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI351 Principal Study 6
10cp
Assumed Knowledge: MUSI350

Advanced level studies in practical music performance on one instrument for Bachelor of Education students only. The syllabus for each instrument describes in detail the minimum requirements and standards at this level. Additional topics include advanced level study of orchestration, the major and minor key, advanced music production techniques and the critique of music. Contact hours: 2 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI354 Principal Study (Education) 5
10cp
Assumed Knowledge: MUSI352

Advanced level studies in practical music performance on one instrument for Bachelor of Education students only. The syllabus for each instrument describes in detail the minimum requirements and standards at this level. Additional topics include advanced level study of orchestration, the major and minor key, advanced music production techniques and the critique of music. Contact hours: 2 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI355 Principal Study (Education) 6
10cp
Assumed Knowledge: MUSI354

Advanced level studies in practical music performance on one instrument for Bachelor of Education students only. The syllabus for each instrument describes in detail the minimum requirements and standards at this level. Additional topics include advanced level study of orchestration, the major and minor key, advanced music production techniques and the critique of music. Contact hours: 2 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI358 Principal Study Double Performance 5
20cp
Assumed Knowledge: MUSI251 and permission of the Dean

Students who have achieved a very high level of performance in previous years of study may be permitted to undertake double performance subjects. The syllabus requirements are somewhat higher than those for the 10 credit point option. Contact hours: 2 hours per week and 20 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI359 Principal Study Double Performance 6
20cp
Assumed Knowledge: MUSI358

Students who have achieved a very high level of performance in previous years of study may be permitted to undertake double performance subjects. The syllabus requirements are somewhat higher than those for the 10 credit point option. Contact hours: 3 hours per week and 20 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI362 Principal Study (Performance/Studio Teaching) 5
10cp
Assumed Knowledge: MUSI210 or permission of the Dean

Provides students with the necessary knowledge and skills to become competent performers, teachers and academic mentors. Cases and tutorials will provide detailed guidance in repertoire and teaching techniques to enable students to gradually improve their technical standards in performance and to learn the skills necessary to become successful studio teachers. Contact hours: 2 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI363 Principal Study (Performance/Studio Teaching) 6
20cp
Assumed Knowledge: MUSI362

Provides students with the necessary knowledge and skills to become competent performers, teachers and academic mentors. Cases and tutorials will provide detailed guidance in repertoire and teaching techniques to enable students to gradually improve their technical standards in performance and to learn the skills necessary to become successful studio teachers. Contact hours: 3 hours per week and 20 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI366 Specialist Genre Studies 5
10cp
Assumed Knowledge: Admission to the course or permission of the Dean

Introduces students to specific technical periods and/or genres of musical activity and practice. The specific area covered will relate to the major stream of composition or the product of a specific period of Western music. Further details are available from the Faculty Office. Location and Semester Details: Conservatorium - Semester 1

MUSI367 Specialist Genre Studies 6
10cp
Assumed Knowledge: Admission to the course or permission of the Dean

Introduces students to specific technical periods and/or genres of musical activity and practice. The specific area covered will relate to the major stream of composition or the product of a specific period of Western music. Further details are available from the Faculty Office. Location and Semester Details: Conservatorium - Semester 2

MUSI372 Ensemble Studies 5
6cp
Assumed Knowledge: MUSI252

Students perform in two ensembles: an ensemble larger than a chamber quartet (this may include duos or a larger instrumental ensemble) and a normal ensemble (this may include duos, trios and larger chamber music contributions). In most ensembles, students are introduced to the techniques and styles of assembling a large chamber ensemble in terms of rehearsals, demonstrations and tutorials. Contact hours: 1 hour per week and 5 hours per week. Location and Semester Details: Conservatorium - Semester 2

MUSI378 Ensemble Studies Teaching (Education) 5
6cp
Assumed Knowledge: MUSI372

Students perform in two ensembles: an ensemble larger than a chamber quartet (this may include duos or a larger instrumental ensemble) and a normal ensemble (this may include duos, trios and larger chamber music contributions). In most ensembles, students are introduced to the techniques and styles of assembling a large chamber ensemble in terms of rehearsals, demonstrations and tutorials. Contact hours: 2 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semester 5

MUSI387 Ensemble Studies Teaching (Education) 5
6cp
Assumed Knowledge: Admission to the course

Students perform in Large Ensemble (choir, orchestra or wind orchestra and band) and Ensembles (Instrumental Ensembles). In small ensemble students will attend a formative class. The Resource Class covers the resources needed to enable them to use these skills in a classroom situation through lectures, demonstrations and tutorials. Contact hours: 3 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semester 5

MUSI403 Research Essay
10cp
Assumed Knowledge: Admission to the course

Students for the writing of a minor thesis. Students develop, under an outline of their improved music research topic together with a specific submission (normally between 3000-5000 words). Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI404 Research Seminar
10cp
Assumed Knowledge: Admission to the course

Students present a variety of short and less structured papers. Contact hours: 2 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

MUSI405 Musikology Project
10cp
Assumed Knowledge: MUSI404

Students devise a research project under supervision consisting of a thesis of 15,000 words which may be accompanied by a recorded or live performance submission. Contact hours: 2 hours per week. Location and Semester Details: Conservatorium - Semester 2

MUSI406 Composition 1
10cp
Assumed Knowledge: Admission to the course

For composition skills in both solo and small ensemble works. Contact hours: 3 hours per week. Location and Semester Details: Conservatorium - Semester 1

MUSI407 Composition 11
10cp
Assumed Knowledge: MUSI406

For composition skills in both solo and small ensemble works. Contact hours: 3 hours per week. Location and Semester Details: Conservatorium - Semester 1

MUSI408 Professional Development Seminar
10cp
Assumed Knowledge: MUSI404 or MUSI405

Advanced, skilled, advanced or professional performance or composition skills and a substantial account of the process. Contact hours: 2 hours per week. Location and Semester Details: Conservatorium - Semester 2

MUSI409 Performance Project
10cp
Assumed Knowledge: MUSI404 or MUSI405

Semester project undertaken in a performing or composition project. Contact hours: 2 hours per week. Location and Semester Details: Conservatorium - Semester 2

MUSI410 Research Project
10cp
Assumed Knowledge: MUSI404 or MUSI405

Students will write and submit a minor thesis of normally 15 - 25,000 words in the developed under supervision. The thesis may, if appropriate, be accompanied by a recorded or live performance submission. Contact hours: By arrangement. Location and Semester Details: Conservatorium - Semester 2

AD102A Foods 1 (Part A)
10cp
Assumed Knowledge: Nil

Part A of a multi-term sequence. Part B must also be completed to complete the requirements of the sequence. Contact hours: 2 hours per week. Location and Semester Details: Conservatorium - Semester 1

AD102B Foods 1 (Part B)
10cp
Assumed Knowledge: Nil

Part B of multi-term sequence. Part A must be successfully completed before undertaking Part B. Contact hours: 2 hours per week. Location and Semester Details: Conservatorium - Semester 1

AD1120 Nutrition
10cp
Assumed Knowledge: Nil

Introduces nutrients, food groups and their functions to healthy eating, and the measurement, recording and analysis of food intake. Students will be able to describe the factors that influence food intake, the role of food and eating habits in nutrition, and the impact of nutrition on health and disease. Contact hours: 2 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semesters 1 and 2

AD1121 Foods and Nutrition
10cp
Assumed Knowledge: Nil

A study of the nature and properties of food commodities and how they are related to human needs with respect to food, nutrition and health. An overview of the properties of macronutrients (carbohydrates, fats and proteins) and the role of essential nutrients in health is also included. Contact hours: 2 hours per week and 10 hours per week. Location and Semester Details: Conservatorium - Semester 1
NUDI102D Nutrition
Assumed Knowledge: Nil
Develops students' knowledge of the physiologic-nutritional function of foods, levels of energy, selection, and the factors that influence it; the concept of nutritional adequacy; and the importance of nutrition in health and disease. Students learn to identify the role of specific nutrients in the prevention of diet-related disease, and to understand the relationship between diet and health.

Location and Semester Details: Callaghan - Semester 1

NUDI301A Food Science (N & D) (Part A) 5cp
Assumed Knowledge: Assumed knowledge of chemistry and other sciences (biochemistry, microbiology).
This subject is Part A of a multi-term sequence. Part B must be completed to meet the requirements of the sequence.
A study of food science, the properties of carbohydrates, fats and proteins as well as the commercial production of foods. Students are expected to be familiar with the chemical nature, digestion, metabolism, requirements and health effects of food additives.

Location and Semester Details: Callaghan - Semester 1

NUDI301B Food Science (N & D) (Part B) 5cp
Assumed Knowledge: Assumed knowledge of chemistry and other sciences (biochemistry, microbiology).
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
A study of food science, the properties of carbohydrates, fats and proteins as well as the commercial production of foods, systematic discussion of dietary fiber, vitamins, and minerals, and the role of food additives. Students are expected to be familiar with the chemical nature, digestion, metabolism, requirements and health effects of food additives.

Location and Semester Details: Callaghan - Semester 2

NUDI302A Food Technology (Part A) 5cp
Assumed Knowledge: Assumed knowledge of chemistry and other sciences (biochemistry, microbiology).
This subject is Part A of a multi-term sequence. Part B must be completed to meet the requirements of the sequence.
A study of the principles and regulatory requirements of food production and processing encompassing safety, quality, nutrition, and health aspects of raw materials and finished products. Students are expected to be familiar with the chemical nature, digestion, metabolism, requirements and health effects of food additives.

Location and Semester Details: Callaghan - Semester 2

NUDI302B Food Technology (Part B) 5cp
Assumed Knowledge: NUDI204 Food Chemistry. NUDI207 Food Science
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
A study of food science, the properties of carbohydrates, fats and proteins as well as the commercial production of foods, systematic discussion of dietary fiber, vitamins, and minerals, and the role of food additives. Students are expected to be familiar with the chemical nature, digestion, metabolism, requirements and health effects of food additives.

Location and Semester Details: Callaghan - Semester 2
NUDI410A Consumer Science Honours 410 20cp

NUDI410B Consumer Science Honours 410 (Part B) 20cp

NUDI411A Consumer Science Honours 411 (Part A) 20cp

NUDI411B Consumer Science Honours 411 (Part B) 20cp

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2

Semester

Serhestef

Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI410A and NUDI410B comprises two seminar series, Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaboration with a sector of the Foodservice Industry to investigate a practical problem. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.

Contact hours: 6 hours per week.

NUDI410A (Part A) Seminar Details: Callaghan - Semester 1 and 2

NUDI410B (Part B) Seminar Details: Callaghan - Semester 1 and 2
NURS361 Nursing, Technology and Change 10cp
Assumed Knowledge: NURS551
Develops critical analysis, and critical action oriented in the context of changing ideas and technologies, focusing on how these changes impact upon nursing, nurses and nursing care.
Contact hours: 2 hours per week.
Location and Semester Details: Callaghan - Semester 1. Offered only if there is sufficient demand.

NURS365 Studies in Specialised Practice 10cp
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.
Will allow students to undertake studies in a specific area of nursing practice to review and evaluate changes or innovation in nursing. Focus of studies will vary according to students' specific areas of interest. Students undertaking a unit of study in this stream will need to study key themes and skills of the area. Students who want to do their own study in this area should contact the academic advisor.
Contact hours: 3 hours per week.
Location and Semester Details: Callaghan - Semester 2.

NURS403 Introductory Epidemiology and Biostatistics 10cp
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.
Aims to introduce students to common epidemiology terms, vital statistics, risk, cause and effect, and socio-cultural bases of human occupation; to develop an understanding of qualitative research concepts.
Contact hours: 2 hours per week.
Location and Semester Details: Callaghan - Semester 1.

NURS404 Design & Method for Qualitative Research in Nursing & Health 10cp
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.
Focuses on the design and interpretation of research in occupational therapy. Students will be introduced to occupational analysis and the use of qualitative and quantitative research methods.
Contact hours: 7 hours per week.
Location and Semester Details: Callaghan - Semester 2.

NURS412 Knowledge & Theory Development in Nursing A 10cp
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.
Focuses on the origins and development of nursing knowledge and the historical influences of broader philosophical and scientific inquiry in nursing.
Contact hours: 7 hours per week.
Location and Semester Details: Callaghan - Semester 1.

NURS413 Knowledge & Theory Development in Nursing B 10cp
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.
Focuses on the origins and development of nursing knowledge and the historical influences of broader philosophical and scientific inquiry in nursing.
Contact hours: 7 hours per week.
Location and Semester Details: Callaghan - Semester 2.

NURS429 Honours Thesis Development 10cp
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.
Focuses on students' opportunity to become actively involved in research, engaging in critical analysis and evaluation of research in the area of their interests. Students can undertake a research project, a descriptive, qualitative, quantitative or mixed-methods project in an area of occupational therapy. Students can also complete a literature review, or a service development project in the clinical setting.
Contact hours: 200 hours.
Location and Semester Details: Callaghan - Semester 1 and 2.

NURS435 Honours Thesis Completion 10cp
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.
Focuses on students' opportunity to become actively involved in research, engaging in critical analysis and evaluation of research in the area of their interests. Students can undertake a research project, a descriptive, qualitative, quantitative or mixed-methods project in an area of occupational therapy. Students can also complete a literature review, or a service development project in the clinical setting.
Contact hours: 200 hours.
Location and Semester Details: Callaghan - Semester 1 and 2.

NURS456 Introducing Research in Nursing 20cp
Assumed Knowledge: Nil
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.
Focuses on providing students with the opportunity to become actively involved in research, engaging in critical analysis and evaluation of research in the area of their interests. Students can undertake a research project, a descriptive, qualitative, quantitative or mixed-methods project in an area of occupational therapy. Students can also complete a literature review, or a service development project in the clinical setting.
Contact hours: 200 hours.
Location and Semester Details: Callaghan - Semester 1 and 2.

NURS470 Occupational Science 1 (Part A)
Assumed Knowledge: Nil - A is a compulsory first year subject
The subject will study the occupational science. Part A must be successfully completed before undertaking Part B.
Contact hours: 120 hours per annum.
Location and Semester Details: Callaghan - Semester 1 and 2.

NURS470B Occupational Science 1 (Part B)
Assumed Knowledge: Nil - A is a compulsory first year subject
The subject will study the occupational science. Part A must be successfully completed before undertaking Part B.
Contact hours: 120 hours per annum.
Location and Semester Details: Callaghan - Semester 1 and 2.

NURS471 Occupational Therapy Practice 1 (Part A)
Assumed Knowledge: Nil
The subject will be offered in a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Contact hours: 240 hours per annum.
Location and Semester Details: Callaghan - Semester 1 and 2.

NURS471B Occupational Therapy Practice 1 (Part B)
Assumed Knowledge: Nil - A is a compulsory first year subject
The subject will be offered in a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Contact hours: 240 hours per annum.
Location and Semester Details: Callaghan - Semester 1 and 2.

NURS472 Occupational Science 2 (Part A)
Assumed Knowledge: Satisfactory completion of the first year of the program - this includes Occupational Science 1
The subject will study the occupational science. Part A must be successfully completed before undertaking Part B.
Contact hours: 120 hours per annum.
Location and Semester Details: Callaghan - Semester 1 and 2.

NURS472B Occupational Science 2 (Part B)
Assumed Knowledge: Satisfactory completion of the first year of the program - this includes Occupational Science 1
The subject will study the occupational science. Part A must be successfully completed before undertaking Part B.
Contact hours: 120 hours per annum.
Location and Semester Details: Callaghan - Semester 1 and 2.
Assumed Knowledge: Studies in OCCT100, and OCCT102.

This subject is part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

This subject develops students’ competencies in assessment, intervention, and organisational capacity in planning in the area of mental health and psychosocial problems of specific groups of workers. This subject is a two part subject to broaden students’ knowledge/skill base related to the practice of occupational therapy in mental health, ageing, and disability. This subject aims to support students to extend their understanding of the principles and practice of occupational therapy with a focus on mental health and psychosocial issues. Students undertake a major project that focuses on an area of Occupational Therapy practice. This project includes a thorough critical review of the related literature, and as an outcome, a detailed and comprehensive report reflecting the findings of the study. Students are expected to be proficient in the use of a beginning position at the end of the course. This subject is taught by distance learning.

Location and Semester Details: Callaghan - Semester 2

Search for a specific topic or location in the text. Relevant results are shown below.

1. Safety I
2. Occupational Health & Safety Law
3. Occupational Health & Safety Practice
4. Elective (Occupational Therapy)
5. Elective (Occupational Therapy)
PHYS2004 Pathology for MRT (Part A) 5cp
Assumed Knowledge: HUM5104
- Part A is a 2 term sequence. Part B must also be completed to prepare for the requirements of the assessment.
- Provides a basic understanding of the mechanisms of disease (Semester 1) - the causes by which diseases occur, with application of these principles in specific clinical situations (Semester 2) and the role of pathology in clinical reasoning.
- Historical and system-level descriptions of anatomy and physiology and some reading and revision may be required prior to the lectures to ensure the material is covered.
Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

PHYS200B Pathology for MRT (Part B) 5cp
Assumed Knowledge: HUM5104
- Part B is a 2 term sequence. Part A must be successfully completed to prepare for the requirements of the assessment.
- Provides a basic understanding of the mechanisms of disease (Semester 1) - the causes by which diseases occur, with application of these principles in specific clinical situations (Semester 2) and the role of pathology in clinical reasoning.
- Historical and system-level descriptions of anatomy and physiology and some reading and revision may be required prior to the lectures to ensure the material is covered.
Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1

PHIL102 Introduction to Philosophy A 10cp
Assumed Knowledge: There is no assumed knowledge
- Introduces students to areas, themes or problems in philosophy in a manner designed to prepare them for the study of the nature and scope of the discipline.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

PHIL103 Introduction to Philosophy B 10cp
Assumed Knowledge: There is no assumed knowledge
- Introduces students to areas, themes or problems in philosophy in a manner designed to prepare them for the study of the nature and scope of the discipline.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

PHIL105 Great Philosophers - Great Books 10cp
Assumed Knowledge: There is no assumed knowledge
- Introduces students to the philosophical ideas in some of the greatest works of the Western tradition that helped form the world of our everyday life, such as Plato and Confucius.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL303 Reason and Religion 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to the question of why people act in the way they do (the motive and the moral order).
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL306 Topics in Ancient, Medieval, and Modern Philosophy 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Explores a range of topics in metaphysics, epistemology and philosophical traditions.
- prepares students for the requirements of the discipline.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL312 Philosophy and Film 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to a topic in philosophical inquiry through the medium of cinema.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL317 Gender and Philosophy 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to an appreciation and critical appraisal of the central issues involved in contemporary debates on gender in the study of philosophy.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

PHIL318 European Philosophies 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Examines the role of philosophy in the development of European culture.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

PHIL331 Science, Technology and Society 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to the study of the interactions between science, technology and society.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL340 Philosophy of Science 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Examines the role of philosophy in the development of scientific thought.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL341 Philosophy of Language 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to the study of the interactions between science, technology and society.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL342 Philosophy of Mind 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to the study of the interactions between science, technology and society.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL346 Philosophy of Religion 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Examines the role of philosophy in the development of religious thought.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL347 Philosophy of Social Science 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to the study of the interactions between science, technology and society.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL351 Moral Theory: History and Problems 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Examines the history and development of ethical thought in Western philosophy.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL358 Ethical Issues 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to contemporary ethical issues and debates.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL383 Human Rights 10cp
Assumed Knowledge: 60cp of successfully completed subjects
- Introduces students to the study of the interactions between science, technology and society.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHYS2004 Pathology for MRT (Part A) 5cp
Assumed Knowledge: HUM5104
- Part A is a 2 term sequence. Part B must also be completed to prepare for the requirements of the assessment.
- Provides a basic understanding of the mechanisms of disease (Semester 1) - the causes by which diseases occur, with application of these principles in specific clinical situations (Semester 2) and the role of pathology in clinical reasoning.
- Historical and system-level descriptions of anatomy and physiology and some reading and revision may be required prior to the lectures to ensure the material is covered.
Contact hours: 4 hours per week
Location and Semester Details: Callaghan - Semester 1
PHIL361 Philosophy of Art 10cp
Assumed Knowledge: 60p of successfully completed subjects
Covers philosophical examination of theories and definitions of art and of the relations between art and religion, and art and science. Studies problems of meaning and interpretation in art and the nature of creativity and originality, and philosophical issues of postmodernism and art and other recent developments.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL371 Metaphysics Epistemology Rationality 10cp
Assumed Knowledge: 60p
A systematic study of a major problem or major theme or major philosopher or group of philosophers, focused on metaphysics, epistemology and rationality.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL371C Metaphysics Epistemology Rationality 10cp
Assumed Knowledge: 60p
A systematic study of a major problem or major theme or major philosopher or group of philosophers, focused on metaphysics, epistemology and rationality.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

PHIL378 Value Theory, Ethics, Socio-Political Philosophy 10cp
Assumed Knowledge: 60p
A systematic study of a major problem or major theme or major philosopher or group of philosophers, focused on value theory, ethics, socio-political philosophy.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL383 Value Theory, Ethics, Socio-Political Philosophy 10cp
Assumed Knowledge: 60p
A systematic study of a major problem or major theme or major philosopher or group of philosophers, focused on value theory, ethics, socio-political philosophy.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL383C Value Theory, Ethics, Socio-Political Philosophy 10cp
Assumed Knowledge: 60p
A systematic study of a major problem or major theme or major philosopher or group of philosophers, focused on value theory, ethics, socio-political philosophy.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL391 Technology and Human Values 10cp
Assumed Knowledge: 60p of successfully completed subjects
Treats the nature and systematic analysis of technology design, in particular the engineering, in the context of a technology system and its functioning, and of the professional ethics that flow from that.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL393 Human Values and Commercial Practice 10cp
Assumed Knowledge: 60p of successfully completed subjects
Treats the nature and systematic analysis of technology design, in particular the engineering, in the context of a technology system and its functioning, and of the professional ethics that flow from that.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL399 Directed Readings 10cp
Assumed Knowledge: 100p of successfully completed subjects
Provides an individual student with an opportunity to examine in detail a specific topic in a major area, or with the guidance of the instructor to examine a topic of their own choosing.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL403 Philosophy of Science 10cp
Assumed Knowledge: 100p of successfully completed Philosophy subjects, or equivalent. Includes a basic understanding of physics and mathematics at a level suitable to be beneficial to a student's understanding of the natural sciences.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL405 Philosophy of Science 10cp
Assumed Knowledge: 100p of successfully completed Philosophy subjects, or equivalent. Includes a basic understanding of physics and mathematics at a level suitable to be beneficial to a student's understanding of the natural sciences.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL406 Philosophy Honours II 20cp
Assumed Knowledge: 50p of successfully completed Philosophy subjects, or equivalent. Includes a basic understanding of physics and mathematics at a level suitable to be beneficial to a student's understanding of the natural sciences.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 1

PHIL407 Philosophy Honours II 20cp
Assumed Knowledge: 50p of successfully completed Philosophy subjects, or equivalent. Includes a basic understanding of physics and mathematics at a level suitable to be beneficial to a student's understanding of the natural sciences.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHIL408 Philosophy Honours IV 20cp
Assumed Knowledge: 50p of successfully completed Philosophy subjects, or equivalent. Includes a basic understanding of physics and mathematics at a level suitable to be beneficial to a student's understanding of the natural sciences.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semester 2

PHYS110 Introductory Physics for Life Scientists 10cp
Assumed Knowledge: None
Provides an introduction to the basic knowledge and techniques used in physics and helps students understand the physics used in biological and medical research.
Contact hours: 3 lecture hours and 1 tutorial hour per week, and laboratory hours per week
Location and Semester Details: Central Coast - Semester 1

PHYS111 Introductory Physics for Engineers and Scientists I 10cp
Assumed Knowledge: None
Provides an introduction to the basic knowledge and techniques used in physics and helps students understand the physics used in biological and medical research.
Contact hours: 3 lecture hours, 1 tutorial hour and 3 laboratory hours per week
Location and Semester Details: Central Coast - Semester 2

PHYS112 Introductory Physics for Engineers and Scientists II 10cp
Assumed Knowledge: None
Provides an introduction to the basic knowledge and techniques used in physics and helps students understand the physics used in biological and medical research.
Contact hours: 3 lecture hours and 1 tutorial hour per week, and laboratory hours per week
Location and Semester Details: Central Coast - Semester 2

PHYS113 Advanced Physics for Scientists and Engineers I 10cp
Assumed Knowledge: Completion of SC2 1 Units Physics and 3 Units Mathematics, or their equivalent.
Provides students with an introduction to advanced concepts in physics and their applications in engineering and science.
Contact hours: 3 lecture hours and 1 tutorial hour per week, and laboratory hours per week
Location and Semester Details: Central Coast - Semester 1

PHYS114 Advanced Physics for Scientists and Engineers II 10cp
Assumed Knowledge: Completion of SC2 1 Units Physics and 3 Units Mathematics, or their equivalent.
Provides students with an introduction to advanced concepts in physics and their applications in engineering and science.
Contact hours: 3 lecture hours and 1 tutorial hour per week, and laboratory hours per week
Location and Semester Details: Central Coast - Semester 2

PHYS115B Physics for Biotechnologists I 10cp
Assumed Knowledge: None
Provides an introduction to the basic knowledge and techniques used in physics and helps students understand the physics used in biotechnology.
Contact hours: 3 lecture hours and 1 tutorial hour per week, and laboratory hours per week
Location and Semester Details: Central Coast - Semester 1

PHYS115C Physics for Biotechnologists II 10cp
Assumed Knowledge: None
Provides an introduction to the basic knowledge and techniques used in physics and helps students understand the physics used in biotechnology.
Contact hours: 3 lecture hours and 1 tutorial hour per week, and laboratory hours per week
Location and Semester Details: Central Coast - Semester 2

PHYS212 Quantum Mechanics 5cp
Assumed Knowledge: Students attempting this subject should have a solid grounding in PHYS111 and PHYS114, plus either PHYS111 or PHYS114, or their equivalents.
Introduces students to the basic concepts and ideas in quantum physics, and provides a foundation for the understanding of more advanced topics in physics. The subject is designed to introduce students to the basic principles of quantum mechanics and their applications to a range of physical systems.
Contact hours: 4 lecture hours and 1 tutorial hour per week for a semester
Location and Semester Details: Central Coast - Semester 1

PHYS213 Physics of Semiconductors 5cp
Assumed Knowledge: PHYS111, PHYS114, plus either PHYS111 or PHYS114, or their equivalents.
Introduces students to the basic concepts and ideas in quantum physics, and provides a foundation for the understanding of more advanced topics in physics. The subject is designed to introduce students to the basic principles of quantum mechanics and their applications to a range of physical systems.
Contact hours: 4 lecture hours and 1 tutorial hour per week for a semester
Location and Semester Details: Central Coast - Semester 1

PHYS214 Quantum Electromagnetism 5cp
Assumed Knowledge: Students attempting this subject should have a solid grounding in PHYS111 and PHYS114, plus either PHYS111 or PHYS114, or their equivalents.
Introduces students to the basic concepts and ideas in quantum physics, and provides a foundation for the understanding of more advanced topics in physics. The subject is designed to introduce students to the basic principles of quantum mechanics and their applications to a range of physical systems.
Contact hours: 4 lecture hours and 1 tutorial hour per week for a semester
Location and Semester Details: Central Coast - Semester 1

PHYS216 Modern Optics 10cp
Assumed Knowledge: PHYS114
Introduces students to the basic concepts and ideas in quantum physics, and provides a foundation for the understanding of more advanced topics in physics. The subject is designed to introduce students to the basic principles of quantum mechanics and their applications to a range of physical systems.
Contact hours: 4 lecture hours and 1 tutorial hour per week for a semester
Location and Semester Details: Central Coast - Semester 1
PHYS251 Optical Design
Assumed Knowledge: PHYS114
5cp
Optical instruments from cameras and telescopes to photocopying and optical fibres are used throughout our society. This course will introduce students to the use of computer programs to design optical systems with improved optical properties, such as improved conceptual and dynamical aberrations or minimized reflection.
Not available in 2001.
Contact hours: 12 one-hour lectures, 2 one-hour tutorials, and 1 laboratory hour per semester.
Location and Semester Details: Callaghan - Semester 2

PHYS272 Sports Science - 2B
5cp
Assumed Knowledge: Anatomy (ANAT102) and Exercise Physiology (HUMPH206)
Examines how physical activity and sporting performance can be analysed using the basic laws of physics and mechanics. The subject includes experiments on friction, collisions, simple mechanics, fluid mechanics and the biomechanical analysis of specific sporting skills. This subject is important for students with an interest in physical education, and in understanding and optimising physical performance.
Contact hours: 1 lecture hour and 1 tutorial hour per week, plus 8 laboratory hours over the semester.
Location and Semester Details: Callaghan - Semester 2

PHYS311 Quantum Mechanics
Assumed Knowledge: Students attempting this subject should have already completed either MATH201 or MATH203, or their equivalent.
Reviews on from PHYS214 and presents a more rigorous treatment with a major emphasis on the conceptual basis of Quantum Mechanics. This subject explains and describes the foundations of mathematical and scientific frameworks that underlie Quantum Mechanics. The philosophical implications of the theory will also be outlined.
Not to count with PHYS301.
Contact hours: 7 lecture hour per week, 5 one-hour tutorials, and 18 laboratory hours per semester.
Location and Semester Details: Callaghan - Semester 1

PHYS314 Atomic and Molecular Physics
Assumed Knowledge: PHYS214
5cp
Provides an introduction to the conceptual framework of quantum theory to the study of atoms and molecules. This subject includes a discussion of the basis of atomic and molecular physics, the study of atomic physics and advances in the understanding of atomic, molecular and solid state physics.
Contact hours: 1 lecture hour per week, 5 one-hour tutorials, and 15 laboratory hours per semester.
Location and Semester Details: Callaghan - Semester 1

PHYS318 Nuclear Physics
Assumed Knowledge: PHYS214 Quantum Mechanics
5cp
Presents the concepts, theories and experiments of nuclear physics at an advanced level. Topics include nuclear properties, isotopes, nuclear reactions, nuclear energy, and nuclear medicine. This subject covers the basic nuclear theory of nuclear processes and the structure of atomic nuclei and their reactions using the structure of nuclear models.
Not to count with PHYS305.
Contact hours: 1 lecture hour per week, 5 one-hour tutorials, and 10 laboratory hours per semester.
Location and Semester Details: Callaghan - Semester 1

PHYS280 Solid State and Surface Physics 10cp
Assumed Knowledge: PHYS301 or PHYS214, PHYS213 and MATHE23
This subject is only available to students enrolled in the Bachelor of Engineering/ Bachelor of Science (Materials Science) combined degree program.
Covers the development of the theories of perfect crystals, with particular reference to their electronic structure; it also includes a fairly complete presentation of the theoretical and experimental knowledge of thin film and semiconductor surfaces.
Contact hours: 40 lectures. 
Location and Semester Details: Callaghan - Semesters 1 and 2

PHYS282 Special Relativity
Assumed Knowledge: A minimum of 100 level physics and 200 level mathematics is required
Einstein's theory of relativity describes the geometry of space and time, and its basic ingredients include the laws of mechanics and the laws of physics in a uniform motion. This subject introduces the special theory of relativity, which is the core of modern physics. The Special Theory of Relativity is a relativistic theory of the physical world that incorporates time, space and mass, and it is central to modern physics. This subject introduces the special theory and the concepts of Special Relativity.
Contact hours: 8 lectures/tutorial per week, and 12 laboratory hours per semester.
Location and Semester Details: Callaghan - Semester 1
POL207 International Relations 10cp
Assumed Knowledge: 10cp in Politics at 100 level or 30cp in Politics at 200 level
This subject is intended to provide students with a broad introduction and overview of international relations. It considers major theories of the study of international relations, such as realism, liberalism, constructivism, and political economy. The subject examines the processes and institutions that shape international politics. Topics include the evolution of the United Nations, the role of economic institutions, the politics of war and peace, and the relationship between business and politics. The subject will focus on the interactions between political democracy and globalisation.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan
Semester 2

POL208 Law and Freedom: Politics and Property Rights 10cp
Assumed Knowledge: 10cp in Politics at 100 level or 30cp in Politics at 200 level
Examines the political issues and debates associated with the idea of property in Australia, focusing on the relationship between property law, property rights, and political power. The subject examines the concept of property, the nature of property, the consequences of property, and the nature of property rights. Topics include the nature of property, the nature of property rights, and the nature of property interests. The subject also examines the role of property in contemporary society.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan
Semester 1

POL209 Politics, Policy and Government 10cp
Assumed Knowledge: 10cp in Politics at 100 level or 30cp in Politics at 200 level
Focuses primarily on the political and policy-making processes in Australia. The subject examines the relationship between political parties, government and opposition, and the role of the bureaucracy. The subject also examines the role of the media in political campaigns and the role of interest groups in lobbying for policy changes. The subject also includes an introduction to the Australian political system and the role of the Commonwealth Parliament.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan
Semester 2

POL301 Australian Political Culture 10cp
Assumed Knowledge: Either 10cp at 200 level Politics or 30cp in any 200 level subject
Develops a knowledge and appreciation of the distinctive features of Australian political culture and an understanding of how political influences shape political activity. Topics include an examination of the concepts, methods, and political theory of political culture, with a focus on the relationship between political democracy and globalisation. The subject examines the role of political institutions, political ideas, and political culture in shaping political activity.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan
Semester 1

POL302 Foundations of Modern Politics 10cp
Assumed Knowledge: 10cp in Politics at 100 level or 30cp in Politics at 200 level
Examines some of the most important political theories and ideas which have influenced the practice of politics within Australian political culture. The subject examines the role of political parties, political policy, political institutions, and political ideas in shaping political activity. The subject also examines the role of political ideas and political culture in shaping political activity.

Contact hours: 2 hours per week
Location and Semester Details: Callaghan
Semester 2

POL303 Power and Politics in Asia 10cp
Assumed Knowledge: 10cp in Politics at 100 level or 30cp in Politics at 200 level
Focuses on the political changes occurring in Asia, with a particular emphasis on the issues of political liberation, economic development, and social change. The subject examines the role of political parties, political policy, political institutions, and political ideas in shaping political activity. The subject also examines the role of political ideas and political culture in shaping political activity.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan
Semester 1

POL304 Democracy and the Politics of Equality 10cp
Assumed Knowledge: Nil
Examines the idea of democracy in politics and the relationship between politics and power. The subject examines the relationship between political democracy and social change. The subject also examines the role of political ideas and political culture in shaping political activity.

Contact hours: 2 lecture hours and 2 laboratory hours per week
Location and Semester Details: Callaghan
Semester 2

POL305 Political Theory and Social Change 10cp
Assumed Knowledge: 10cp in Politics at 100 level or 30cp in Politics at 200 level
Examines the relationship between political ideas and social change. The subject examines the role of political ideas and political culture in shaping political activity. The subject also examines the role of political ideas and political culture in shaping political activity.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan
Semester 1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Assumed Knowledge</th>
<th>Contact Hours</th>
<th>Location and Semester Details</th>
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<tbody>
<tr>
<td>PSYC102C</td>
<td>Psychology Introduction 102</td>
<td>PSYC101 or PSYC101C</td>
<td>10cp</td>
<td>Location and Semester Details: Central Coast - Semester 2</td>
</tr>
<tr>
<td>PSYC108C</td>
<td>Psychopathology</td>
<td>PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Central Coast - Semester 2</td>
</tr>
<tr>
<td>PSYC208</td>
<td>Personality and Social Processes</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC209</td>
<td>Personality and Social Processes</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC209C</td>
<td>Personality and Social Processes</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Central Coast - Semester 2</td>
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<tr>
<td>PSYC210C</td>
<td>Developmental Psychology</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC210</td>
<td>Introduction to Abnormal Behaviour</td>
<td>PSYC103 or PSYC103C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC210</td>
<td>Introduction to Abnormal Behaviour</td>
<td>PSYC103 or PSYC103C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC215C</td>
<td>Social Psychology</td>
<td>PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC216</td>
<td>Individul Proccesses</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC285</td>
<td>Topics in Psychology</td>
<td>PSYC102C or PSYC207C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC300C</td>
<td>Individual Processes</td>
<td>PSYC102C or PSYC207C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
</tr>
<tr>
<td>PSYC301</td>
<td>Advanced Foundations for Psychology</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC301C</td>
<td>Advanced Foundations for Psychology</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC302C</td>
<td>Advanced Processes</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC304</td>
<td>Advanced Research Methods</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC305C</td>
<td>Individual Processes</td>
<td>PSYC102C or PSYC207C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
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<tr>
<td>PSYC310</td>
<td>Social and Organisational Psychology</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
</tr>
<tr>
<td>PSYC310C</td>
<td>Social and Organisational Psychology</td>
<td>PSYC102C or PSYC102C</td>
<td>10cp</td>
<td>Location and Semester Details: Callaghan - Semester 1</td>
</tr>
</tbody>
</table>

Assumed Knowledge: All students must have completed PSYC101 or PSYC101C. Students are required to complete PSYC102C before enrolling in PSYC208C. Students are recommended to complete PSYC209C before enrolling in PSYC301C. Students are required to complete PSYC210C before enrolling in PSYC305C.
**SCIC201 Science on the Internet**

*Assumed Knowledge:* None

This subject is designed as an introduction to the discipline of Computer Science. It will enable students to understand the roles of computers in their daily lives and to gain a basic awareness of how computer software is developed, including the use of the World Wide Web and the Internet. The subject consists of the basic physical layer of the Internet, the use of the WWW and the various applications available on the Internet. A hand-on approach is taken, including designing and developing interactive pages. This subject is intended as preparation for students intending to develop computer programming and consulting to develop practical software applications. It is not part of an Australian Psychological Society accredited sequence.

**SCIC202 Foundations of Science and Technology**

*Assumed Knowledge:* None

This subject is designed as an introduction to the discipline of Science and Technology. It will enable students to understand the roles of science and technology in their daily lives and to gain a basic awareness of how scientific research is conducted, including the use of the scientific method and the interpretation of scientific data. The subject consists of the basic physical layer of the Internet, the use of the WWW and the various applications available on the Internet. A hand-on approach is taken, including designing and developing interactive pages. This subject is intended as preparation for students intending to develop computer programming and consulting to develop practical software applications. It is not part of an Australian Psychological Society accredited sequence.

**SCIC203 Introduction to Software Engineering**

*Assumed Knowledge:* None

This subject is designed as an introduction to the discipline of Software Engineering. It will enable students to understand the roles of software engineering in their daily lives and to gain a basic awareness of how software systems are developed, including the use of the software development process and the various applications available on the Internet. A hand-on approach is taken, including designing and developing interactive pages. This subject is intended as preparation for students intending to develop computer programming and consulting to develop practical software applications. It is not part of an Australian Psychological Society accredited sequence.
SENG339 User Interface Design 10cp
Assumed Knowledge: SENG111, SENG112 and permission of Head of Department

SENG443 Program Analysis and Software Re-Eng 10cp
Assumed Knowledge: COMP239 and permission of Head of Department

SENG338 Concurrent Programming 10cp
Assumed Knowledge: SENG111

SENG454 Monetary Systems Engineering 10cp
Assumed Knowledge: Permission of Head of Department

SENG101 Fundamentals of Engineering 10cp
Introduces students to the processes involved in developing contemporary software systems. It covers important concepts in software engineering, such as software development environments, and aims to help students appreciate the complex role of software developers in the modern world.

Location and Semester Details: Callaghan - Semester 1

SENG339 Software and Distributed Environments 10cp
Assumed Knowledge: Knowledge of computer systems, theory and practice of software development environments. It provides an introduction to software development environments, covering issues such as software development tools and practices, and the role of software developers in the modern world.

Location and Semester Details: Callaghan - Semester 2

SENG415 Special Topic I 10cp
Assumed Knowledge: Permission of Head of Department

SENG416 Special Topic II 10cp
Assumed Knowledge: Permission of Head of Department

SENG421 Software Engineering Project 30cp
Assumed Knowledge: SENG311, SENG312

SENG422 Software Engineering Dissertation 40cp
Assumed Knowledge: Permission of Head of Department

SENG442 Software Architecture 10cp
Assumed Knowledge: SENG311, SENG312 and permission of Head of Department

SOM101 Introduction to Sociology 10cp
Assumed Knowledge: None

SOM201 Introduction to Forensic Science 10cp
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is completion of SENG202 and level 100 Criminal Justice subjects. Further, L102 provides an appropriate introductory background in criminal law pertinent to the subject.

SOC101C Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: None

SOC202 Introduction to Medical Anthropology 10cp
Assumed Knowledge: SENG102 or equivalent

SOC102 Communication and Culture 10cp
Assumed Knowledge: 20 credit points of SGA or CMNS subjects at 100 level or equivalent

SOC120 Health Sociology I 10cp
Assumed Knowledge: None

SOC102A History of Sociological Thought 10cp
Assumed Knowledge: 20 cp SGA 100 level subjects or equivalent

SOC120A Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: SENG102 Introduction to Sociology and Social Anthropology

SOC101C Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: None

SOC102 Introduction to Medical Anthropology 10cp
Assumed Knowledge: SENG102 or equivalent

SOC203 Sociology of Work 10cp
Assumed Knowledge: 20 credit points SGA 100 level subjects or equivalent

SOM101A Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: SENG102A or equivalent

SOM101B Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: SENG102B or equivalent

SOM102C Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: SENG102C or equivalent

SOM103C Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: SENG102D or equivalent

SOM104C Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: SENG102E or equivalent

SOM105C Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: SENG102F or equivalent

SOM106C Introduction to Sociology and Social Anthropology 10cp
Assumed Knowledge: SENG102G or equivalent
SOC204 Theory and Practice of Social Research 10cp
Assumed Knowledge: 20cp of SOCA100 or equivalent
This course is designed for students who have completed at least 20cp of SOCA100 or equivalent.

SOC205 Anthropological Analysis 10cp
Assumed Knowledge: SOCA101 or equivalent
This course provides an introduction to anthropological methods and theories.

SOC206 Media and Society 10cp
Assumed Knowledge: 10cp Group A subjects or equivalent
This course explores the impact of media on society and the relationship between media and social issues.

SOC210 Australian Families 10cp
Assumed Knowledge: 20p of SOCA100 level subjects or equivalent
This course examines the social and cultural influences on family life in Australia.

SOC212 Introductory Aboriginal Studies: Culture and Politics 10cp
Assumed Knowledge: 20cp of SOCA subjects at 100 level or equivalent
This course introduces students to the cultural and political aspects of Aboriginal life in Australia.

SOC214 The Politics of Racialised Boundaries 10cp
Assumed Knowledge: 20cp of SOCA 100 level or equivalent
This course explores the politics of racialised boundaries and the impact of policies on diversity in Australia.

SOC215 Islam in Modern Society 10cp
Assumed Knowledge: SOCA101
This course examines the role of Islam in contemporary society and the challenges it poses to society.

SOC216 Youth Culture 10cp
Assumed Knowledge: SOCA101; SOCA102; or equivalent
This course examines the impact of youth culture on society, with a particular focus on religious and social issues.

SOC217 Ethnicity and Migration Studies 10cp
Assumed Knowledge: 20p of SOCA100 level subjects or equivalent
This course examines the impact of migration on society, with a particular focus on the Australian context.

SOC222 Anthropology of Symbol, Myth and Ritual 10cp
Assumed Knowledge: SOCA101 or equivalent
This course examines the role of symbolism and ritual in society, with a particular focus on the Australian context.

SOC223 The Culture of Sexual Minorities 10cp
Assumed Knowledge: SOCA101; GEND102 or equivalent
This course examines the role of sexual minorities in society, with a particular focus on the Australian context.

SOC224 Crime and Society 10cp
Assumed Knowledge: 20cp of SOCA, CMHS subjects or equivalent at 100 level
This course examines the role of crime and criminal justice in society, with a particular focus on the Australian context.

SOC226 Contemporary World 10cp
Assumed Knowledge: 20p of SOCA100 level subjects or equivalent
This course examines the role of society in contemporary world, with a particular focus on the Australian context.

SOC227 Rock Music and Youth Culture 10cp
Assumed Knowledge: 20 cp points of SOCA, CMHS subjects or equivalent at 100 level
This course examines the role of rock music in youth culture, with a particular focus on the Australian context.

SOC230 Narrative & Culture 10cp
Assumed Knowledge: 40 p points of SOCA, CMHS subjects or equivalent in 100 level
This course examines the role of narrative in culture, with a particular focus on the Australian context.

SOC231 Indigenous Peoples of the Contemporary World 10cp
Assumed Knowledge: 20 cp points of SOCA100 level subjects or equivalent
This course examines the role of indigenous peoples in contemporary world, with a particular focus on the Australian context.

SOC232 Gender and Society 10cp
Assumed Knowledge: 20p of SOCA100 level subjects or equivalent
This course examines the role of gender in society, with a particular focus on the Australian context.

SOC233 Capitalism and Society 10cp
Assumed Knowledge: 20p of SOCA100 level subjects or equivalent
This course examines the role of capitalism in society, with a particular focus on the Australian context.

SOC234 Global Society 10cp
Assumed Knowledge: 20p of SOCA100 level subjects or equivalent
This course examines the role of global society in contemporary world, with a particular focus on the Australian context.
Assumed Knowledge: SOCA101, SOCA102, or equivalent

Provides students with a basis in the field of research conducted under the rubric of urban anthropology or sociology. The city has been a major focus of urban research: the object of study for planners and reformers in their zeal to make the city a more humane and civilized environment. The experience of both individuals and social groups. The purpose of this subject is to explore the theoretical approaches that have sought to make sense of the city and to analyze the ethnographic materials that have been collected in the city. The subject is designed for students who have considered the city and its inhabitants to be a key phenomenon of urban life.

Contact hours: 1 lecture hour per week and 1 tutorial hour per week. Location and Semester Details: Callaghan - Semester 1.

SOCA309 Culture and Environment 10cp

Assumed Knowledge: SOCA101 or equivalent

Explores how culture and environmental worldviews are expressed through media texts, and how the media shapes and influences cultural and environmental experiences. The course also covers the relationship between cultural and environmental values, and the role of cultural and environmental sustainability.

Contact hours: 2 lecture hours and 1 tutorial hour per week. Location and Semester Details: Callaghan - Semester 2.

SOCA3111 Cultures of the Body 10cp

Assumed Knowledge: SOCA101 or equivalent

Explores the body as a cultural and social construct. The course covers the relationship between body and identity, including issues of race, gender, and sexuality, and the role of the body in shaping social and cultural practices.

Contact hours: 2 lecture hours and 1 tutorial hour per week. Location and Semester Details: Callaghan - Semester 1.

SOCA312 Society and Social Change 10cp

Assumed Knowledge: SOCA101, SOCA102 or SOCA200 equivalent

This subject provides an understanding of social change in a historical and comparative context. It covers the role of social actors in shaping social change, and the relationship between social change and social order.

Contact hours: 2 lecture hours and 1 tutorial hour per week. Location and Semester Details: Callaghan - Semester 2.
SOCA242 Health Sociology 2 (OT) 10cp
Assumed Knowledge: SOCA102 or equivalent
Introduces students to the theoretical and methodological perspectives of occupational therapy, including the role of the occupational therapist, the nature of occupational therapy, and the significance of new social movements in the occupational therapy profession. The course will also cover the role of occupational therapy in contemporary society, and the relationship between occupational therapy and other health professions, such as physical therapy and rehabilitation medicine.

Location and Semester Details: Contact Hours: 2 lecture hours and 2 tutorial hours per week Contact: Location and Semester Details: Callaghan - Semester 2

SOCA243 Social Issues in Health Care 10cp
Assumed Knowledge: SOCA101 and SOCA102 or equivalent
Introduces students to the political and institutional aspects of health care, including the organization of health care systems, the role of government in health care, and the relationship between health care and social justice.

Location and Semester Details: Contact Hours: 2 lecture hours and 1 tutorial hour per week Contact: Location and Semester Details: Callaghan - Semester 2

SOCA250 The State, the Church, and Health Policy 10cp
Assumed Knowledge: Either SOCA101, SOCA102 or equivalent
Introduces students to the role of the state in health policy, and the relationship between the state and health care systems. Students will be introduced to the political and social forces that shape health policy, and the role of the state in determining health outcomes.

Location and Semester Details: Contact Hours: 2 lecture hours per week Contact: Location and Semester Details: Callaghan - Semester 1

SOCA252 Religion and Politics in Contemporary Society 10cp
Assumed Knowledge: SOCA101 or equivalent
Covers the role of religion in contemporary society, and the relationship between religion and politics. The course will explore the ways in which religious beliefs and practices have been used to support or challenge political power, and the ways in which politics have influenced religious beliefs and practices.

Location and Semester Details: Contact Hours: 2 lecture hours per week Contact: Location and Semester Details: Callaghan - Semester 1

SOCA260 Screen, Image, Culture 10cp
Assumed Knowledge: SOCA101 and SOCA102 or equivalent
Examines the relationship between popular culture and society, focusing on the ways in which popular culture shapes and is shaped by social, economic, and political forces. The course will cover a range of topics, including film, television, music, and the internet.

Location and Semester Details: Contact Hours: 2 lecture hours and 1 tutorial hour per week Contact: Location and Semester Details: Callaghan - Semester 1

SOCA281 Social Policy and the Welfare State 10cp
Assumed Knowledge: 20 credit points of SOCA subjects at 100 level or equivalent
Explores the historical and contemporary development of welfare states, focusing on the role of the state in providing social protection and social justice. Students will be introduced to the key concepts of social policy, including the role of government in providing social services, the relationship between social policy and social justice, and the role of the state in shaping social outcomes.

Location and Semester Details: Contact Hours: 2 lecture hours per week Contact: Location and Semester Details: Callaghan - Semester 1

SOCA282 India and Bangladesh: Society and Culture 10cp
Assumed Knowledge: SOCA102
Introduces students to the cultural and social forms of India and Bangladesh, focusing on the role of religion in shaping social and cultural norms. The course will cover a range of topics, including religion, politics, and economy.

Location and Semester Details: Contact Hours: 2 lecture hours per week Contact: Location and Semester Details: Callaghan - Semester 1

SOCA283 Post-Modernity and New Social Movements 20cp
Assumed Knowledge: SOCA101 and either SOCA102 or equivalent
Traces contemporary shifts in the analysis and understanding of inequality and social power away from the traditional left model, stressing the importance of economic factors, inequality, and social relations. The course will cover a range of topics, including the role of the state in shaping social outcomes, and the relationship between social policy and social justice.

Location and Semester Details: Contact Hours: 2 lecture hours and 2 tutorial hours per week Contact: Location and Semester Details: Callaghan - Semester 2

SOCA301 Representations of Culture in Ethnographic Film 20cp
Assumed Knowledge: 20 credit points of SOCA subjects at 100 level or equivalent
Explores the significance of cultural representations in the development of the discipline of anthropology. This course is one of the key concepts of the major research area in anthropology. The course will cover a range of topics, including the role of the filmmaker in shaping cultural representations, and the relationship between anthropology and film.

Location and Semester Details: Contact Hours: 2 lecture hours and 1 tutorial hour per week Contact: Location and Semester Details: Callaghan - Semester 1

SOCA306 Environment and Society 20cp
Assumed Knowledge: 20 credit points of SOCA subjects at 100 level or equivalent
Develops a sociological approach to environmental issues. Deals critically with the relationship between human experience and the environment, within the environmental movement and within social life at large. Topics covered include pop culture and environmental movements, and the role of the state in shaping environmental outcomes.

Location and Semester Details: Contact Hours: 2 lecture hours and 1 tutorial hour per week Contact: Location and Semester Details: Callaghan - Semester 1
SCA314 Cyberculture
20cp
Assumed Knowledge: 40cp at 200 level or SOCA or CMMS subjects, or equivalent
Examines the sociology of the Internet, dealing with issues such as social and cultural implications of the Internet, and in particular the Internet and online environments; the implications of the World Wide Web for equity, democracy and political organisation; and heterpn and the information revolution on these and other aspects of life.
Contact hours: 2 hours per week contact period, 3 lecture hours per semester Location and Semester Details: Callaghan - Semester 1
SCA315 Discourse of Ethnicity
20cp
Assumed Knowledge: 20 cp credit at level 200 in SOCA subjects or equivalent
Questions and analyses recent changes in the study of ethnicity and ethnic identity from both theoretical and empirical perspectives: it focuses on the construction and relational nature of ethnicity and examines issues of identity and representation.
Not available in 2001.
Contact hours: 2 hour lecture and 2 hour tutorial per week Location and Semester Details: Callaghan - Semester 2
SCA317 Bodies, Gender and Visual Culture 20cp
Assumed Knowledge: 40 cp credit at 200 level or SOCA or 20 cp credit at 200 level in CMMS subjects or equivalent
Looks at contemporary representation of the body (film, photography, and art) and explores how they relate to wider social and political questions of gender and sexuality.
Not available in 2001.
Contact hours: 2 hour lecture 2 hour tutorial per week Location and Semester Details: Callaghan - Semester 2
SCA330 Rights, the State and Social Theory 20cp
Assumed Knowledge: 20cp of S0CA200 level subjects
Conceptualises "the state" as a political institution and as a social domain and institutional outcome of struggle, as a type of society, libeller, along with Marxism, addresses itself specifically to the question of the state and individual or collective rights.
The subject is designed to analyse these key concepts in the way in which they have come to inhabit the public sphere of late modern Australian political discourse and practice. Critical of state granted rights as a reflection of power relations in society will also be examined and a discussion will be made about poststructuralist, neo-kantian and feminist theory concerning liberation.
Contact hours: 4 hour seminar per week Location and Semester Details: Callaghan - Semester 1
SCA331 Sociology of Corruption 20cp
Assumed Knowledge: 20 cp credit at 200 level from the Department of Sociology or Anthropology or equivalent
Explores the phenomena of corruption from a "structure versus agency" framework and provides a theoretical understanding of the phenomena of corruption in developing as well as developed countries. It draws on Sjidds ala's framework on the nature, function, causes and prevention of corruption, complemented with material on the sociology of deviance and the sociology of crime and organised crime. It explores selected examples of corruption as bribery, as extortion, as nepotism, in South Asia and Australia.
Contact hours: 4 hour seminar per week Location and Semester Details: Callaghan - Semester 1
SCA333 Social Constructions of Gender 10cp
Assumed Knowledge: S0CA101 and S0CA102 or GEND102 or equivalent
Provides a theoretical understanding of sociological accounts of the construction of gender and shows how biological, psychological and cultural accounts are, in fact, with a view to reconstructing the epistemology which underlies gendered kinds of knowledge.
Not available in 2001.
Contact hours: 2 hour seminar per week Location and Semester Details: Callaghan - Semester 1
SCA334 Special topic 10cp
Assumed Knowledge: 40cp S0CA subjects at 200 level or equivalent
Works with students on special requests, or needs, to study a topic not currently offered by the Department. The topic covered needs to be agreed in advance by the subject coordinator and the student. The topic is studied in a comprehensive project study is established by way of negotiation between students and a responsible member of academic staff. Enrolment is dependent on the permission of the Head of Department, and the availability of staff and resources.
Contact hours: 2 hours per week Location and Semester Details: Callaghan - Semesters 1 and 2
SWSW201 Social Issues in Social Policy

Assumed Knowledge: At least one of the following: SWSW101 or SWSW210

This subject is Part A of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.

Provides an opportunity for students doing a major in SWSW subjects to undertake a field project in a community or government agency. Field projects provide the opportunity to consolidate the learning gained throughout the degree and prepare for their transition to professional life. It is noted that Field Studies is not a clinical placement and therefore students must be in the direct work with clients. The required component is 250 hours duration and generally includes a three-week block in late semester and an internship, or an on-site work block until the project is completed. Students undertake Field Studies in the third year of their full time degree.

Contact hours: 2 hours per week
Location and Semester Details: Garrikin Centre - Semester 2

SWSW211 Community Processes and Social Change

Assumed Knowledge: Any subject at 100 level from the Faculty of Arts

Examines the boundaries and limitations of direct social action. Emphasis examines how these other subject(s) at 100 level from the Faculty of Arts and Social Sciences provide opportunities to apply theoretical ideas as applied to scenarios through group tasks and experiential learning activities.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 2

SWSW202 Youth Studies

Assumed Knowledge: Any subject at 100 level from the Faculty of Arts and Social Sciences

Provides an introduction to conceptual ideas that influence perspectives on youth. The subject explores the construction of the concept of youth and the political and social processes which give rise to the meanings of young people. The electives provide the opportunity to look at the practice of youth work, and in particular, program development. The elective is designed to be interactive and experiential.

Contact hours: 3 hours per week
Location and Semester Details: Callaghan - Semester 2

SWSW203 Human Rights, Advocacy and Social Change

Assumed Knowledge: At least one of the following: SWSW 101; SWSW 201; SWSW 202; SWSW204 or any other subject at 200 level from the Faculty of Arts and Social Sciences

SPSW205 Social Research for Policy 10cp

Assumed Knowledge: At least one of the following: SWSW 101; SWSW 201; SWSW204 or any other subject at 200 level from the Faculty of Arts and Social Sciences

Examines the research issues, theory and methodology, and the concepts, principles and methods of project planning and development. Students enrol commonly in SWSW305. Field Studies will utilise relevant project planning and project evaluation techniques and field work. The experience-based role of student participation and active involvement in the exploration of theoretical issues is applied to practical scenarios through group tasks and experiential learning activities.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 1

SWSW302 Community Admission

Assumed Knowledge: At least one of the following: SWSW 101; SWSW 201; SWSW204 or any other subject at 200 level from the Faculty of Arts and Social Sciences

Introduces the concept, contexts, issues and practice of community services administration, particularly in the non-government welfare sector. The elective of this subject provides students with an opportunity to consolidate the learning gained throughout the degree, and prepare for their transition to professional life. It is noted that Field Studies is not a clinical placement and therefore students must be in the direct work with clients. The required component is 250 hours duration and generally includes a three-week block in late semester and an internship, or an on-site work block until the project is completed. Students undertake Field Studies in the third year of their full time degree.

Contact hours: 4 hours per week
Location and Semester Details: Central Coast - Semester 2

SWSW206 Welfare Sector Management

Assumed Knowledge: At least one of the following: SWSW 101; SWSW 201; SWSW204 or any other subject at 200 level from the Faculty of Arts and Social Sciences

Develops the knowledge skills, values and other intellectual competencies needed by contemporary welfare sector managers. Clinically examines the social construction of work and work roles, the processes of decision-making within service agencies and the development of analytical and critical abilities directed toward making significant, authentic contributions to social policy and social change. The subject is experience-based and relies on student participation and active involvement in the exploration of theoretical ideas as applied to scenarios through group tasks and experiential learning activities.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 2

SWSW207 Regional Social Policy and Planning

Assumed Knowledge: A knowledge base developed in SWSW101 and SWSW201, SWRK101 and SWRK210 or equivalent subjects

Examines the principles of ecological sustainability and develops an understanding of the significance of these principles for the social and community services sector. This subject also examines the development of individual and community policy and planning processes within the context of regional and economic development. The concept of regionality is critically examined, with particular emphasis on the role of location on economic standards of living, social disadvantage, environmental management and developing partnerships at the local, state and federal level.

Contact hours: 3 hours per week
Location and Semester Details: Central Coast - Semester 2
SPTH122 Speech Pathology in Education & Community Settings 10cp
Assumed Knowledge: SPTH112, LING335
Focuses primarily on communication disorders typical seen within community health and education settings. Developmental language disorders in children are dealt with from an advanced level of treatment. Assessment and clinical reasoning are key to the understanding of the implications for communication of hearing impairment in children and adults are also studied.
Contact hours: TBA
Location and Semester Details: Callaghan - Semesters 1 and 2
SPTH222 Speech Pathology in Education & Community Settings 2 10cp
Assumed Knowledge: SPTH112, LING324
Focuses primarily on communication disorders typically seen within community health and education settings. Developmental speech disorders are dealt with at an advanced level for both assessment and treatment. Communication problems common to people with developmental disabilities or voice disorders in children and adults provide the main focus of study. The subject includes coverage of the speech rehabilitation of the person suffering hearing impairments.
Contact hours: TBA
Location and Semester Details: Callaghan - Semester 2
SPTH302 Speech Pathology BIB 20cp
Assumed Knowledge: Assumed knowledge SPTH111, ANAT103
Consonant voice disorders. Voice science including perceptual and instrumental measurement and description of normal and abnormal voice is studied. The practical focus is on the role of speech pathology in the assessment and management of voice disorders. This subject provides students with a theoretical and practical knowledge of the nature of voice disorders and their treatment.
Contact hours: TBA
Location and Semester Details: Callaghan - Semesters 1 and 2
SPTH308 Clinical Practice 10cp
Assumed Knowledge: SPTH111, HUMS191, SPTH208
Students undertake supervised face-to-face clinical experience with adult speech and language disorders. Clinical experiences may involve clients with adult speech and language disorders or voice disorders (e.g., voice disorders). Students complete clinical experiences in a variety of settings including community hospitals or clinics. These experiences may be focused on specific issues or disorders in communication and children. Clinical experience placements are usually in community health settings or in the Speech Pathology Service on-campus, and attendance for up to two days (5 hrs - 8 hrs) each week may be required. One hour will be spent in on-campus tutorials to assist with the preparation for clinical placements and the facilitation of feedback from the clinical setting.
Contact hours: TBA
Location and Semester Details: Callaghan - Semesters 1 and 2
SPTH311 Speech Pathology in Medical Settings 10cp
Assumed Knowledge: SPTH222, HUMS291
Focuses on communication disorders typically seen in hospital settings or specialist services. Acquired communication disorders of neurological origin are covered, i.e. aphasia and related disorders, apraxia of speech, dysarthria. An introduction to the management of swallowing disorders (dysphagia) in adults is also covered.
Contact hours: TBA
Location and Semester Details: Callaghan - Semester 1
SPTH412 Special Topics 10cp
Assumed Knowledge: SPTH201, SPTH210, SPTH320, SPTH401, SPTH420, SPTH431
Designated to allow for advanced level study in areas of recent theoretical and empirical research in the field of speech pathology. Students may elect to study topics such as audiological and psychological aspects of speech disorders and are encouraged and advised to students prior to enrolment for the following year, or to undertake an individualised learning program (ILP) arranged in consultation with the Speech Pathology Course Co-ordinator. This subject is an elective within the Bachelor of Speech Pathology.
Contact hours: 2 hours per week
Location and Semester Details: Callaghan - Semesters 1 and 2
STAT202 Data Analysis: Regression & Forecasting
Assumed Knowledge: Any 100 level STAT subject or ECON103 or MATH111 or MATH112
Contains classical probability concepts with the use of computers in performing statistical calculations. Develops theoretical aspects of statistics including random variables, their distributions, and provides a first approach to statistical estimation and hypothesis testing. The theoretical ideas are applied to real problem, and computational ideas such as the empirical distribution function and the bootstrap techniques are introduced.
Contact hours: 4 hours per week (location and Semester Details: Callaghan - Semester 1)

STAT210 Total Quality Management
Assumed Knowledge: Subjects at 200 level totalling 40 credit points from any discipline.
Provides an opportunity for students taking different degrees and different courses within the Faculty of Economics and Commerce and the Faculty of Science and Mathematics to study a common framework of Total Quality Management. Students will also develop skills to appropriate statistical techniques for improving processes and write reports to management describing the results of their analyses. This subject is offered both on-campus and by distance learning mode.
Contact hours: 4 hours per week (location and Semester Details: Callaghan - Semester 2)

STAT211 Data Mining
Assumed Knowledge: Introductory statistics and introductory regression
Introduces the techniques for extracting vital and useful information from data. The strengths and weaknesses of the data mining tools will be examined through real-life case studies.
Not available in 2001.
Contact hours: 4 hours per week (location and Semester Details: Callaghan - Semester 1)

STAT317 Surveys and Experiments
Assumed Knowledge: Introductory statistics and calculus
Introduces design and analysis of factorial experiments and surveys.
Contact hours: 3 hours per week (location and Semester Details: Callaghan - Semester 1)

STEC202 Biometrics
Assumed Knowledge: None
This subject is designed to introduce science students to statistical thinking within a biomedical context. Emphasis will be placed on biostatistical problems for biological sciences and statistical analysis and the range of experimental design techniques needed. Students will learn to specify experimental design and collect data. Both parametric and non-parametric data analysis will be considered in the light of practical applications taken from discipline areas such as food technology, marine science and marine resource management.
Contact hours: 4 hours per week (location and Semester Details: Central Coast - Semester 1)

STEC203 Applied Biometrics
Assumed Knowledge: STEC202 Biometrics
This subject will provide an introduction to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semester 2)

STEC205 Mathematics and Technology
Assumed Knowledge: None, but some form of RISC knowledge is desirable
The subject provides a framework for the teaching of primary level mathematics, including an introduction to the use of computers in the classroom. The subject is in three modules: basic mathematical skills; classroom mathematics; and mathematical modelling. The subjects are offered in three modules: basic mathematical skills; classroom mathematics; and mathematical modelling.
Contact hours: 8 hours per week (location and Semester Details: Central Coast - Semester 1)

STEC211 Applied Chemistry Honours 1
Assumed Knowledge: None
This subject is designed to introduce students to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semester 1)

STEC212 Applied Chemistry Honours 2
Assumed Knowledge: None
This subject is designed to introduce students to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semester 2)

STEC213 Applied Chemistry Honours 3
Assumed Knowledge: None
This subject is designed to introduce students to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semester 3)

STEC221 Applied Biology Honours 1
Assumed Knowledge: None
This subject is designed to introduce students to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semester 2)

STEC222 Applied Biology Honours 2
Assumed Knowledge: None
This subject is designed to introduce students to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semester 3)

STEC223 Applied Biology Honours 3
Assumed Knowledge: None
This subject is designed to introduce students to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semester 4)

STEC303 Generalised Linear Models
Assumed Knowledge: Principles of statistical inference (eg STAT202) and STAT301
Contact hours: 5 hours per week (location and Semester Details: Callaghan - Semester 1)

STEC304 Time Series Analysis
Assumed Knowledge: STEC202 Fundamentals of statistics, and calculus
Contact hours: 3 hours per week (location and Semester Details: Central Coast - Semester 1)

STEC307 Statistical Methods
Assumed Knowledge: Nil
This subject is designed to introduce students to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semester 2)

STEC410 Computing in Science
Assumed Knowledge: None. To be completed with SCIN101 or INF101 or INJ1010C
Provides an introduction to the basic concepts and techniques needed to use computers in scientific research and development environments. The course is designed "specifically to cater to the needs of science" in courses at the Central Coast Campus. Students in a range of disciplines at the Central Coast, including Biotechnology, Marine Science, and Human Sciences will find this course useful.
Contact hours: 8 hours per week (location and Semester Details: Central Coast - Semesters 1 and 3)

STEC412 Foundations of Science and Technology 1
Assumed Knowledge: There are no pre-requisites.
This subject is designed to introduce students to the principles underlying the design and analysis of experiments for the design of experiments. It will focus on the use of biostatistical methods to the choice of one particular experimental design and data analysis over another. It extends the various two sample tests introduced in STEC202 Biometrics and provides a range of experimental designs to improve upon the use of simple population models. By the end of the course, students will be able to test the normality of a sample and to choose an appropriate statistical test. The course will enable students to develop an understanding of the design of experiments as the core methodology to the analysis of data in the biomedical field.
Contact hours: 6 hours per week (location and Semester Details: Central Coast - Semesters 1 and 2)
SURV111 Surveying 1 10cp

Assumed Knowledge: HSC or equivalent

Surveying, as a profession, involves the systematic measurement of objects in space, and involves measurement of horizontal and vertical angles, and distances. The subject provides an introduction to the surveying industry and modern surveying. Topics include surveying terminology, traversing and levelling, area calculations and surveys, computer-aided surveying software and cadastral surveying.

Contact hours: 3 hours per week. Location: Semester Details: Callaghan - Semester 1

SURV25 Spatial Data Systems and Remote Sensing 10cp

Assumed Knowledge: There are no pre-requisites for this subject. Introduces the general concepts of spatial data systems and remote sensing, and their role in surveying and geomatics. The subject will cover the basic concepts of a spatial data system, and an introduction to remote sensing. It will also cover remote sensing and computer-aided surveying software and cadastral surveying, and survey-data-based computer-aided drafting CAD practices, principles and examples of software.

Contact hours: 5 hours per week. Location: Semester Details: Callaghan - Semester 2

SURV344 Astronomy and Satellites Positioning 10cp

Assumed Knowledge: There are 2 level and 1 subject surveys Surveying Computing. Assumes knowledge of modern surveying systems and their role in surveying and geomatics. The subject will cover the basic concepts of a spatial data system, and an introduction to remote sensing. It will also cover remote sensing and computer-aided surveying software and cadastral surveying, and survey-data-based computer-aided drafting CAD practices, principles and examples of software.

Contact hours: 5 hours per week. Location: Semester Details: Callaghan - Semester 1

SURV411 Industrial Surveying 10cp

Assumed Knowledge: SURV111 Surveying 1, SURV122 Surveying 2, SURV332 Surveying 3, SURV334 Surveying 4. This subject provides an introduction to field surveying, field and management principles and practices, and specific equipment utilized in field surveys. Topics include surveying terminology, traversing and levelling, area calculations and surveys, computer-aided surveying software and cadastral surveying, and survey-data-based computer-aided drafting CAD practices, principles and examples of software.

Contact hours: 5 hours per week. Location: Semester Details: Callaghan - Semester 1

SURV420 Survey Design and Management 10cp

Assumed Knowledge: First three years of B. Survey and GNSS. A final year subject which prepares students for professional surveys. Contact hours: 5 hours per week. Field camp of up to 5 days duration is an essential component of the subject. Location: Semester Details: Callaghan - Semester 1

SWRK101B Introduction to Social Work (Part B) 10cp

Assumed Knowledge: N/A

This subject is Part B of a multi-term sequence. Part B must be successfully completed before undertaking Part C. Focuses on social work in contemporary Australian Society, and on the role of social work in providing services for individuals, families and communities. Topics include the role and practice of social work, principles of social work practice and the Code of Ethics of the profession.

Contact hours: 5 hours per week. Location: Semester Details: Callaghan - Semester 2

SWRK203A Field Education 1 (Part A) 10cp

Assumed Knowledge: SWRK101, SOCIA111, PSYC101 and PSYC102

This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B. It introduces students to the principles and practice of social work and provides an opportunity for students to learn from experienced social workers in practice. Topics include the role and practice of social work, principles of social work practice, and the Code of Ethics of the profession.

Contact hours: 5 hours per week. Location: Semester Details: Callaghan - Semester 2
This subject is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Part A comprises a 50-day field placement in a social work agency, directly supervised by a qualified social worker and supported by a staff member from the Social Work Department. The field placement is supplemented by a number of campus based workshops before, during and after the field placement. The purpose of the subject is to develop social work knowledge, skills and professional practice in the field. Students must meet professional and ethical standards of practice and a set of learning goals, both in the course of the field placement and in the campus based workshops.

Contact hours: TBA

Location and Semester Details: Callaghan - Semester 2

SWRK303A Field Education II (Part A) 10cp
Issued Knowledge: SWRK101, SWRK210, SWRK203, SOC111, SYC101, PSYC102, PHIL258, HIST101 or HIST102 or ARBK STUDIES 111

This subject is Part A of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.

Part A comprises a 50-day field placement in a social work agency, directly supervised by a qualified social worker and supported by a staff member in the Social Work Department. The field placement is supplemented by a number of campus based workshops before, during and after the field placement. The purpose of the subject is to develop social work knowledge, skills and professional practice in the field. Students must meet professional and ethical standards of practice and a set of learning goals, both in the course of the field placement and in the campus based workshops.

Contact hours: TBA

Location and Semester Details: Callaghan - Semester 2

SWRK303B Field Education II (Part B) 10cp
Issued Knowledge: SWRK101, SWRK210, SWRK203, SOC111, SYC101, PSYC102, PHIL258, HIST101 or HIST102 or ARBK STUDIES 111

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Part B comprises a 50-day field placement in a social work agency, directly supervised by a qualified social worker and supported by a staff member in the Social Work Department. The field placement is supplemented by a number of campus based workshops before, during and after the field placement. The purpose of the subject is to develop social work knowledge, skills and professional practice in the field. Students must meet professional and ethical standards of practice and a set of learning goals, both in the course of the field placement and in the campus based workshops.

Contact hours: TBA

Location and Semester Details: Callaghan - Semester 2

SWRK310A Social Work Theory and Practice II (Part A) 20cp
Issued Knowledge: Second year Social Work subjects, History 101 or 102 or Aboriginal Studies, Philosophy 258

This subject is Part A of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.

Provides essential Social Work knowledge, theory, skills and values to future professionals following the guidelines of the Australian Association of Social Workers (AASW). This is the second of three core subjects.

Contact hours: 5 hours per week (for 6 weeks) in Semester 1, 5 hours per week in Semester 2

Location and Semester Details: Callaghan - Semester 1

SWRK310B Social Work Theory and Practice II (Part B) 20cp
Issued Knowledge: Second year Social Work subjects, History 101 or 102 or Aboriginal Studies, Philosophy 258

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Provides essential Social Work knowledge, theory, skills and values to future professionals following the guidelines of the Australian Association of Social Workers (AASW). This is the second of three core subjects.

Contact hours: 6 hours per week (for 6 weeks) in Semester 1, 6 hours per week in Semester 2

Location and Semester Details: Callaghan - Semester 2

SWRK403A Field Education III (Part A) 10cp
Issued Knowledge: The three previous years of the BSW as in the prescribed sequence of the degree

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Builds on learning from previous years with a specific focus on interpersonal and intervention skills in a range of methods and settings. It is taught in an integrated way with SWRK 410. Students must meet professional and ethical standards of practice and a set of learning goals, both in the course of the field placement and in the campus based classes. This is the final Field Education subject in the degree and comprises a 50 day placement in a social work agency, directly supervised by a qualified social worker and supported by a staff member from the Social Work Department, and on campus skill development.

Contact hours: 2 hours per week plus 50 day placement

Location and Semester Details: Callaghan - Semester 1

SWRK403B Field Education III (Part B) 10cp
Issued Knowledge: The three previous years of the BSW as in the prescribed sequence of the degree

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Builds on learning from previous years with a specific focus on interpersonal and intervention skills in a range of methods and settings. It is taught in an integrated way with SWRK 410. Students must meet professional and ethical standards of practice and a set of learning goals, both in the course of the field placement and in the campus based classes. This is the final Field Education subject in the degree and comprises a 50 day placement in a social work agency, directly supervised by a qualified social worker and supported by a staff member from the Social Work Department, and on campus skill development.

Contact hours: 2 hours per week plus 50 day placement

Location and Semester Details: Callaghan - Semester 2

SWRK410A Social Work Theory and Practice III (Part A) 20cp
Issued Knowledge: Third Year Social Work subjects, SPSW307, Law101

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Anti-oppressive practice, ethical decision making, evaluation of practice, interventions and decision making and career planning including continuing professional education. The learning goals are focused on applying fundamental principles and standards enhancing problem solving and coping capacities, working with others and in teams and developing ideas and information.

Contact hours: 6 hours per week

Location and Semester Details: Callaghan - Semester 1

SWRK410B Social Work Theory and Practice III (Part B) 20cp
Issued Knowledge: Third Year Social Work subjects, SPSW307, Law101

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Anti-oppressive practice, ethical decision making, evaluation of practice, interventions and decision making and career planning including continuing professional education. The learning goals are focused on applying fundamental principles and standards enhancing problem solving and coping capacities, working with others and in teams and developing ideas and information.

Contact hours: 6 hours per week

Location and Semester Details: Callaghan - Semester 2