

# Faculty of Arts

## Member Units

### School of English Literatures, Philosophy and Languages

English Literatures Program  
Modern Languages Program  
Philosophy Program

### School of History and Politics

History Program  
Politics Program

### School of Social Sciences, Media and Communication

Communication and Cultural Studies Program  
Science, Technology and Society Program  
Sociology Program

[Note: The Aboriginal Education Centre, which administers the Aboriginal Studies Major, is an Associate Member Unit of the Faculty of Arts]

## Degrees Offered

### Single Degrees

Bachelor of Arts  
Bachelor of Arts (Community and Environment)\*  
Bachelor of Arts (Dean's Scholars)  
Bachelor of Arts (Honours)  
Bachelor of Communication and Media Studies

### Double Degrees

Bachelor of Arts - Bachelor of Commerce  
Bachelor of Arts - Bachelor of Laws  
Bachelor of Creative Arts - Bachelor of Arts  
Bachelor of Engineering - Bachelor of Arts  
Bachelor of Science - Bachelor of Arts  
Bachelor of Communication and Media Studies – Bachelor of Arts  
Bachelor of Communication and Media Studies – Bachelor of Commerce  
Bachelor of Communication and Media Studies – Bachelor of Creative Arts  
Bachelor of Communication and Media Studies – Bachelor of Laws  
Bachelor of Communication and Media Studies – Bachelor of Science

*\* Only available at Shoalhaven, Batemans Bay, Bega or Moss Vale*

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>  
International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

## Bachelor of Arts

Testamur Title:	Bachelor of Arts
Abbreviation:	BA
Home Faculty:	Faculty of Arts
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn/Spring. (Students with Advanced Standing may begin in Summer Session if appropriate subjects are available).
Location:	Wollongong
UOW Course Code:	702
UAC Code:	753101
CRICOS Code:	000612E

### Overview

A Bachelor of Arts degree is one of the traditional and most popular university degrees, though it has changed in shape and content through the years and from country to country. The BA today is made up of subjects with origins in the humanities — history, literature, languages and philosophy. During the nineteenth century the disciplines we now know as the social sciences developed — economics, sociology, politics, psychology, anthropology and geography. While universities organise themselves in a variety of ways, these and related disciplines are generally included in an Arts degree, even if they are not located in an Arts Faculty.

The Australian pattern of study for a BA has been focused on a sequence of subjects that forms a 'major' in a wider pattern of subjects that provide a broader knowledge of humanities and social sciences. The major can take many forms, with the unity and coherence of the degree constructed in one of two ways. The study of a discipline can form the basis of the sequence of studies, giving students a developing set of skills in 'doing' the discipline while they acquire a set of conceptual frameworks and a body of knowledge interpreted using those frameworks. That is, within the study of 'history', students learn how to research and write history as well as how to read what historians have thought about the past. An area of interdisciplinary studies can also form the focus of a degree. Australian Studies, Asia-Pacific Studies, Gender Studies and Communication Studies are examples of study areas offered at the University of Wollongong. Students learn skills from several disciplines while working on a particular theme or area, for example, the history and literature of a region, or sociological, political and textual approaches to film.

### Advanced Standing

Information about Approved Credit Transfer Arrangements is available at <http://www.uow.edu.au/handbook/advancedstanding/>

### Entry Requirements / Assumed Knowledge

#### NSW HSC entry through UAC:

Students apply through UAC and satisfy the UAI requirement for the year of application. Assumed knowledge: any two units of English.

#### Other Secondary Qualifications:

Students with secondary qualifications outside NSW will be considered on a case-by-case basis.

#### Tertiary Qualifications

Applications will be considered from students with the following tertiary qualifications:

A completed two-year Diploma or Advanced Diploma from TAFE or another accredited institution;

Not less than one-sixth of a Bachelor degree from an approved university;

Other tertiary courses approved by the University of Wollongong.

#### Overseas Qualifications

Students with tertiary qualifications obtained overseas will be considered provided that they satisfy University's minimum admission requirements.

#### Alternative Entry (Domestic applicants)

STAT test

UAP

Aboriginal and Torres Strait islander alternative entry program

### Course Requirements

The Bachelor of Arts is made up of 144 credit points of subjects listed in the course structures for the Faculty of Arts and the General Schedule. In their first two semesters of study, students must undertake at least 12 credit points in subjects taught by member units of the Faculty of Arts. No more than 60 credit points of 100-level subjects may be counted in the degree. Students should refer to the Award Rules for the Bachelor of Arts for further details.

Students must complete one major study taught by the Faculty of Arts but may undertake two major studies within the normal requirements of the degree. Minor studies are also available in most areas covered by the Majors. Completed major studies are noted on the student's testamur, awarded at Graduation.

The degree does not have subjects compulsory for all students but many individual majors have compulsory subjects.

### Major Study Areas from the Faculty of Arts

Students enrolled in the Bachelor of Arts within the Faculty of Arts must take one of these majors:

Aboriginal Studies  
 Asia-Pacific Studies  
 Australian Studies  
 Communication Studies  
 Community and Environment\*  
 English Language and Linguistics  
 English Literatures  
 European Studies  
 French  
 Gender Studies  
 History  
 Information Studies  
 Italian  
 Japanese  
 Philosophy  
 Politics  
 Resource and Environmental Studies  
 Science, Technology and Society  
 Sociology

*\*available at the Shoalhaven Campus and the Bega, Batemans Bay and Moss Vale access centres only. For details see the Bachelor of Arts (Community and Environment).*

### Minor Studies

Students enrolled in the Bachelor of Arts within the Faculty of Arts may choose from the following minors:

Aboriginal Studies  
 Asia-Pacific Studies  
 Australian Studies  
 Communication Studies  
 English Language and Linguistics  
 English Literatures  
 European Studies  
 French  
 Gender Studies  
 History  
 Information Studies  
 Italian  
 Japanese  
 Philosophy  
 Politics  
 Resource and Environmental Studies  
 Science, Technology and Society  
 Sociology  
 Spanish (See Minor Study under the European Studies major)

### Internship and International Subjects

(See subject descriptions for more information on these subjects)

ARTS201 Introduction to Australia for International Students

ARTS202 International Studies

ARTS301 Arts Internship

POL301 Politics Internship (for students taking the Australian National Internship Program or Washington Internship)

### Major Study areas offered by other Faculties

The following major study areas are offered by other faculties and may be taken as second majors only:

Economics  
 Education  
 Geography  
 Legal Studies  
 Management  
 Marketing

## Assessment

Assessment in this course varies between subjects and programs, but typically can include a combination of essays, tutorial/seminar presentations, WebCT exercises and, in some subjects, in-class tests and/or exams. Some subjects may have an additional practical component. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session.

## Honours

See separate entry for the Bachelor of Arts (Honours)

The Faculty of Arts Honours Handbook can be accessed as a PDF document at the following web address:  
<http://www.uow.edu.au/arts/current/honsb.pdf>

## Major Study Areas from the Faculty of Arts

### Aboriginal Studies

Aboriginal Studies is an interdisciplinary major which links together a number of ABST subjects as well as subjects offered by the Faculties of Arts, Creative Arts, Education, Law, Science and Health and Behavioural Sciences, to provide Aboriginal and non-Aboriginal students with a coherent program in the study of Aboriginal Australia.

#### Major Study

The major consists of three core subjects offered by the Aboriginal Education Centre together with a choice of subjects offered by participating Faculties. Students are advised to consult with the Aboriginal Education Centre about available subjects prior to enrolment.

A major in Aboriginal Studies requires the completion of a minimum of 52 credit points, consisting of at least 12 credit points at 100-level, 16 credit points at 200-level and 24 credit points at 300-level. The major must include ABST150, ABST200 and ABST300.

Note: In planning the major, students should be aware that they may need to satisfy prerequisites of upper-level subjects.

#### Double Major

Many of the Aboriginal Studies subjects are drawn from the offerings of a number Faculties, and it is possible for students to complete a second major. Students are encouraged to look closely at this option, particularly if they are contemplating postgraduate study.

#### Minor Study

A minor in Aboriginal Studies will consist of the three core subjects (ABST150, ABST200 and ABST300) and one other subject from the subjects prescribed for the major (see Study Program below). Students may not cross-count any subjects from the minor in any other minor or major study.

#### Study Program

Subjects 100-Level	Title	Session	Credit Points
ABST150	Introduction to Aboriginal Australia	Autumn and Spring (W'gong), Spring (BB, BE, SH, MV)	6
ARTS112	People and Place (Available at Batemans Bay, Bega, Shoalhaven and Moss Vale only)	Autumn	6
AUST102	Australian Studies: Narrating the Nation	Spring	6
ENGL113	Contemporary Writing in Australia	Spring	6
HIST109	Living Australia, 1880-2000	Spring	6
NURS140	Introductory Communication Studies	n/o 2005	6
PHIL151	Practical Reasoning A	Autumn	6
POL141	Change and Debate in Contemporary Australian politics	Summer 2004/05	6
POP101	Population Health: Current Issues and Determinants	Spring	6
SOC103	Aspects of Australian Society	Autumn	6

<b>200-Level</b>			
ABST200	Aboriginal History Since Invasion	Autumn and Spring (W'gong), Autumn (BB, BE, SH, MV)	8
EESC206	Discovering Down Under: A Geography of Australia	Spring	6
EESC208	Environmental Impact of Societies	Spring	6
HIST239	A Cultural History of Water	Spring	8
LAW344	Indigenous Peoples and Legal Systems	Autumn	6
NURS240	Current Services in Aboriginal Health	Spring	6
NURS242	Functional Community Structures	n/o 2005	6
POP201	Contemporary Population Health Problems	Autumn	6
PHIL206	Practical Ethics	Autumn	8
PHIL232	Political Philosophy A	Spring	8
SOC231	Social Analysis	Spring	8
<b>300-Level</b>			
ABST300	Indigenous Theories of Decolonisation	Spring	8
ABST350	Special Topic in Aboriginal Studies	n/o 2005	8
ABST361	Issues in Aboriginal Education	Autumn	8
ABST362	Aboriginal Pedagogy	Spring	8
AUST300	Twentieth Century Australian Culture	Spring	8
EESC307	Spaces, Places and Identities	Autumn	8
EESC308	Environmental and Heritage Management	Spring	8
ENGL375	Australia Fair: Nation, 'Race' and Culture	Spring	8
HIST350	Debates in Australian Cultural History	n/o 2005	8
LAW344	Indigenous Peoples and Legal Systems	Autumn	6
NURS327	Health and Human Ecology	Spring	6
NURS341	Research in Indigenous Health	Autumn	6
PHIL390	Contemporary Political Philosophy	Autumn	8
SOC305	Race and Ethnic Studies	n/o 2005	8
VISA321	Introduction to Indigenous Arts and Visual Culture	Autumn	6

### **Asia-Pacific Studies**

The Asia-Pacific Studies major provides students with an understanding of the region in terms of cultural studies, history, politics, economics and languages, with particular attention to Southeast Asia, India, Korea and Japan.

The recent changes that have taken place in Australia's region demonstrate how forces of globalization are increasingly integrating all parts of the world, and thus are shaping Australia's future as one in which it is essential to be able to connect to wider cultural, social, political and economic trends. This major thus offers unique insights into the nature of globalization in the Asia-Pacific, and will equip graduates to participate in these changes through roles in government, trade, law, social policy, development studies and culture.

Within the major, students can combine subjects to follow streams of study of development in the Asia-Pacific (Sociology, Politics, History, Geosciences and Economics subjects), the interaction of culture, language and politics in the region (Literature, Language and History subjects) or intensive study of the Japanese language.

#### **Major Study**

A major study in Asia-Pacific Studies for the Bachelor of Arts degree requires the completion of a minimum of 52 credit points from the subjects listed below, including all core subjects. At least 24 credit points must be at 300-level. This interdisciplinary major may be taken as a single major study, but its flexibility makes it a useful component in a double major. Students should plan their degree programs carefully, bearing in mind the need to satisfy subject prerequisites particularly at 200- and 300-levels.

#### **Minor Study**

A minor in Asia-Pacific Studies will consist of at least 28 credit points of subjects from the Course Structure of the major. It must include HIST107 and SOC243 but no more than 2 subjects at 100 level. Students may not cross-count any subjects from the minor in any other minor or major study.

Subjects Core	Title	Session	Credit Points
HIST107	Empires, Colonies and the Clash of Civilisations	Autumn	6
SOC243	Contesting Asia: Culture, Diversity, Difference	Autumn	8
<b>Electives: 100-Level</b>			
STS120	Technology in Society: East and West	Spring	6
HIST124	The Cold War and After	Spring	6
JAPA101	An Introduction to Japanese	Summer 04/05	6
JAPA110	Japan and the Japanese	Spring	6
JAPA141	Beginners' Japanese I	Autumn	6
JAPA142	Beginners' Japanese II	Spring	6

## Course Information

JAPA143	Beginners' Japanese III	Summer	8
---------	-------------------------	--------	---

The following 100-level subjects may be offered in Summer Session.

IND0101	Introductory Indonesian/Malaysian - Level 1	n/o 2005*	6
IND0103	Introductory Indonesian/Malaysian	n/o 2005*	6
IND0104	Indonesian/Malaysian 1A	n/o 2005*	6
IND0105	Indonesian/Malaysian 1B	n/o 2005*	6
LANG196	Chinese (Mandarin) Level I	Summer	6
LANG197	Chinese (Mandarin) Level II	n/o 2005	6
LANG198	Chinese (Mandarin)	n/o 2005	6
	Intermediate Level for Other Dialect Speakers		

### 200-Level

ASIA299	Special Topics in Southeast Asian Studies	Summer	8
ECON251	Industry and Trade in East Asia	Spring	8
EESC205	Population Studies	Autumn	6
HIST286	From Ancient Kingdoms to Colonial Southeast Asia, 1500-1900	Spring	8
HIST288	Religion and Military Rule in Southeast Asia	n/o 2005	8
LING210	Communicating in a Foreign Language	Spring	8
POL225	International Relations, An Introduction	Autumn	8

### 300-Level

ASIA399	Special Topics in Southeast Asian Language Studies	Summer	8
ECON303	Economic Development Issues	Autumn	6
ENGL373	Pacific Literature	Spring	8
HIST339	Australians and War: from Kokoda to Iraq	n/o 2005	8
HIST379	Culture and Identity in Indonesian History, 1870-2002	n/o 2005	8
HIST394	Commodification History	Autumn	8
POL317	Politics in the South Pacific	n/o 2005	8
POL318	The Asian Tigers - Newly Industrialising Countries in Transition	Autumn	8
POL323	North and South: Approaches to Relations Between Advanced, Industrialising and Developing Countries	Spring	8
SOC318	Modernity, Development and Social Change	Spring	8

\*Note: Students wishing to undertake language study in Indonesian should consult Professor Adrian Vickers on enrolling.

## Australian Studies

Australian Studies is an interdisciplinary and multidisciplinary course of study. It includes Aboriginal studies, history, politics, literature, media, sociology, science and technology and gender in its ambit. It has been designed to introduce students to the various ways Australian issues are addressed and analysed by a variety of interdisciplinary and disciplinary approaches. The major examines questions about national identity, social, cultural and political diversity, race and gender. By crossing between disciplines, this major offers a rich insight into the complexities and contradictions that contribute to the notions of 'Australia' and 'Australian'.

### Major Study

A major in Australian Studies consists of a minimum of 52 credit points; a minimum of 6 credit points at 100 level, 8 credit points at 200 level and 24 credit points at 300 level. The major is made up of the three core subjects: AUST101 or AUST102, ABST200 or HIST203 and AUST300 or SOC305. The balance of credit points is made up by taking subjects with Australian content offered by the following Programs within the Faculty: Aboriginal Studies, Communication and Cultural Studies, English, History, Politics, Science Technology and Society and Sociology.

Students should ensure that they have the necessary prerequisites to take the subjects of their choice or have had the prerequisites waived by the Convenor of the relevant Program.

### Minor Study

A minor in Australian Studies consists of a minimum of 28 credit points including one of the nominated core subjects at 100 level and one of the nominated core subjects at 200 level. The balance of credit points can be taken from the list of subjects for the major provided that no more than 12 credit points are taken at 100 level. Students may not cross-count any subjects from the minor in any other minor or major study.

### Honours

Those interested in Honours in Australian Studies should consult the Honours co-ordinator of the School of History and Politics. A notice board with information on Australian Studies can be found in the History and Politics corridor on the second floor of the Arts building (Bldg 19).

Subject	Title	Session	Credit Points
<b>100-Level Core</b>			
AUST101 Or AUST102	Australian Studies: Cultures and Identities  Australian Studies: Narrating the Nation (Students may use AUST101 or AUST102 as an elective if they have not selected it as a core subject).	Autumn  Spring	6  6
<b>100-Level Electives</b>			
ABST150	Introduction to Aboriginal Australia	Autumn, Spring (W'gong), Spring (Batemans Bay, Bega, Moss Vale, Shoalhaven)	6
ENGL113	Contemporary Writing in Australia	Spring	6
HIST109	Living Australia, 1880-2000	Spring	6
POL111	Australian Politics	Autumn	6
POL141	Change and Debate in Contemporary Australian Politics	Summer 04/05	6
SOC103	Aspects of Australian Society	Autumn	6
STS120	Technology in Society: East and West	Spring	6
<b>200-Level Core</b>			
ABST200 or HIST203	Aboriginal History Since Invasion (Students may use ABST200 or HIST203 as an elective if they have not selected it as a core subject).  Australians and the Great War	Autumn ,Spring  Autumn	8  8
<b>200-Level Electives</b>			
CCS219	Cinema in Australia	Spring	8
POL222	Australian Public Policy	n/o 2005	8
POL290	Women in Society: Productive and Reproductive Labour	Spring	8
SOC205	Sociology of the Family	Spring	8
SOC222	Crime, Criminality and Criminalisation	n/o 2005	8
SOC242	Contemporary Issues in Society	n/o 2005	8
<b>300-Level Core</b>			
AUST300 or SOC305	Twentieth Century Australian Culture (Students may use AUST300 or SOC305 as an elective if they have not selected it as a core subject).  Race and Ethnic Studies	Spring  Autumn	8  8
<b>Electives: 16 credit points from:</b>			
CCS330	The Practices of Everyday Life	Spring	8
CCS357	Television Cultures	n/o 2005	8
ENGL346	Comparative Canadian/Australian Literatures	n/o 2005	8
ENGL375	Australia Fair: Nation, 'Race' and Culture	Spring	8
HIST318	The Making of the Modern Australian Woman	Spring	8
HIST339	Australians and War: from Kokoda to Iraq	n/o 2005	8
HIST340	New Approaches to Australian Urban and Rural working Class History	n/o 2005	8
HIST342	Sickness and Death: Social History and Public Health in Australia	Spring	8
HIST394	Commodification History	Autumn	8
SOC308	Social and Public Policy	Spring	8
SOC310	Community Organisations, the Third Sector and Civil Society	Autumn	8
SOC330	Gender and Society	Spring	8

### **Communication Studies**

This Major provides a critical and theoretical understanding of media and culture. It places emphasis on questions of identity, power, diversity, globalization and the cultural dimensions of social, scientific and technological change and political engagement. It offers ways of thinking critically about the practice and representation of these and other issues in film, television, new media and everyday life. We encourage students to investigate these issues at the local and international level. Students who complete this Major successfully will graduate with conceptual knowledge and skills in research and analysis that are useful in a wide range of related fields such as journalism, media research, arts management, the public service, public affairs, lobbying and social advocacy.

In the core subjects, students are introduced to the key ideas and debates underpinning the interdisciplinary field of Cultural Studies. Students also study a range of methods for analysing film, television and new media materials. Core subjects are complemented by a number of elective subjects in which students seek to understand cultural and media practices in specific historical, discursive and institutional settings.

The program regards 'Cultural Studies' and 'Media Studies' as integrated streams as the media are a major site for the discursive production and circulation of meanings in contemporary society. Concepts introduced and explored in the Cultural

Studies core subjects speak to issues and themes which are central to the more media-oriented subjects.

The structure of the Major is based on the progressive development of key concepts and skills of analysis, library research and writing across levels 100 to 300. The core subjects provide the pathways for introducing, explicating, testing and applying analytic concepts, theories and literature from the interdisciplinary fields which inform Cultural and Media Studies. Complementary subjects offer sites for further exploration and application of these concepts, theories and themes and demonstrate the power and value of Cultural and Media Studies as a way of making sense of cultural practices, cultural politics and regimes of value and power.

### Major Study

The CCS major is made up of at least 54 credit points. At 100 level, students must take the introductory core subject CCS105 (6cp). At the upper level, students must take two core subjects. The remaining four upper level subjects may be taken from the following schedule at 200 or 300 level, but must not include more than two from the subjects listed as 'elective'. Overall, a student must complete a **minimum** of three subjects from the schedule at 300 level.

### Pre-requisites

Entry to all CCS 200-level subjects will require 36 credit points. Entry to CCS 300-level subjects will require 36 credit points including at least 8 credit points at CCS 200-level. Study abroad and exchange students can consult with the Convenor of Program about entry to upper level CCS subjects.

### Minor Study

A minor in Communication Studies will consist of at least 28 credit points of subjects from the Course Structure of the Communication Studies major. Students may not cross-count any subjects from the minor in any other minor or major study.

### Honours

See Bachelor of Arts (Honours)

### Study Program

Subjects	Session	Credit Points
<b>100-Level Core</b>		
CCS105 Introduction to Communication and Cultural Studies	Autumn	6
<b>Upper Level (200-300 Level) Core:</b>		
Students must complete two of the following three subjects.		
Note: Students may also take the third subject, but only two will be core subjects.		
CCS207 Culture: Central Problems and Critical Debates	n/o 2005	8
CCS221 Critical Cultural Practice	Spring	8
CCS330 The Practices of Everyday life	Spring	8
<b>200-Level Major Subjects</b>		
CCS200 Media Events and Rituals	Spring	8
CCS217 Film Form and Style	Autumn	8
CCS219 Cinema in Australia	Spring	8
CCS221 Critical Cultural Practice	Spring	8
CCS223 Introduction to Publishing Studies: Print	n/o 2005	8
CCS225 Introduction to Electronic Publishing	n/o 2005	8
STS288 Science and the Media	Autumn	8
STS240 Technological Change, Popular Culture and New Media	Spring	8
<b>200-Level Electives</b>		
HIST291 Film and History	Spring	8
PHIL255 Interpretation and Communication	n/o 2005	8
POL224 Politics and the Media	Spring	8
SOC241 Culture and Communication	n/o 2005	8
<b>300-Level Major subjects</b>		
CCS300 Representing Subjectivity and Identity	Spring	8
CCS301 Culture and Emotion	Autumn	8
CCS333 Genre: Theory and Analysis	n/o 2005	8
CCS335 Electronic Cultures	Autumn	8
CCS337 Hollywood in Context	n/o 2005	8
CCS341 Media and Cultural Studies: Advanced Seminar (Quota of 24 students)	Spring	8
CCS351 Semiotics and Communication (This 2004 title will change in 2005 to Signs of Communication)	Summer 04/05	8
CCS357 Television Cultures	n/o 2005	8
CCS388 International Media Theories and Systems	n/o 2005	8
STS335 The Politics of Risk	Spring	8
STS390 Media, War and Peace	Spring	8
<b>300-Level Electives</b>		
ARTS301 Arts Internship	Spring	8
POL324 Culture and Politics	Autumn	8
POL368 Protest and Power in America: The Sixties	Autumn	8



## English Language and Linguistics

The English Language and Linguistics major is built around the premise that access to knowledge through language literacy is access to power and future success. For this reason, the ELL major not only addresses the immediate literacy needs, both in terms of written and spoken English of university students, but also develops linguistic analytical skills which build language awareness so that students are empowered to be sophisticated users of English. The English Language and Linguistics (ELL) major provides two orientations: a TESOL (Teaching English to Speakers of other Languages) orientation which can lead to a professional qualification in TESOL if further study is undertaken in the Faculty of Education, and an English for Professional Purposes orientation.

At 100 level students are introduced to the functional structure and linguistic features of academic writing and also the context in which this occurs – the Western Academic tradition (ELL152/161). ELL171 introduces further functional linguistic tools but within the context of a variety of text types. The functional linguistic approach is continued in ELL271 and ELL371 providing students with a comprehensive “toolbox” for linguistic analysis. The focus is on academic writing though other text types are considered in order to highlight the particular features of the former. These grammatically oriented core subjects are complemented by LING210 and ELL310 which contextualise the focus language – English – within the global arena.

### Major Study

A major in English Language and Linguistics for Non-English Speaking Background (NESB) students consists of 58 credit points, and must include 18 cp at 100-level, 16 cp at 200-level and 24 cp at 300-level, as set out below. A major in English Language and Linguistics for English Speaking Background (ESB) students consists of 52 credit points, and must include 12 cp at 100-level, 16 cp at 200-level and 24 cp at 300-level, as set out below. Students who are uncertain whether they should be in the NESB or the ESB stream must consult the ELL co-ordinator.

*Note:* LING210 is counted towards majors in French, Italian, Japanese and English Language and Linguistics.

### Minor Study

A minor in English Language and Linguistics for English Speaking Background (ESB) students will consist of ELL161, ELL171, ELL 271 and LING210 (28 credit points). For non- English Speaking Background (NESB) students, the minor will consist of ELL151, ELL152, ELL171, ELL271 and LING210 (34 credit points). Students may not cross-count any subjects from the minor in any other minor or major study.

### Honours

See Bachelor of Arts (Honours)

### Study Program

Subjects:	Session	Credit Points
<b>TESOL Orientation</b>		
<b>100-Level – NESB (Non English Speaking Background) students</b>		
ELL151 English for Academic Purposes: A Second Language Perspective	Autumn	6
ELL152 English Language Studies 1	Spring	6
ELL171 An Introduction to Linguistics: The English Language	Spring	6
<b>100-Level – ESB (English Speaking Background) students</b>		
ELL161 English for Academic Purposes: A First Language Perspective	Spring	6
ELL171 An Introduction to Linguistics: The English Language	Spring	6
<b>200-Level - NESB and ESB students</b>		
ELL271 English Language Studies 2	Autumn	8
LING210 Communicating in a Foreign Language	Spring	8
<b>300-Level Core - NESB and ESB students</b>		
ELL310 Language and Communication in a Global Context	Autumn	8
ELL371 English Language Studies 3	Spring	8
<b>300-Level Elective- NESB and ESB students</b>		
<b>Any 8 credit points in subjects from the following, only one of which may be a 2 credit point subject:</b>		
EDUE317 English Language: Examining Learners' Problems	Autumn	6
EDUE332 Teaching Grammar and Vocabulary	Autumn	2
EDUE340 Materials and Technology in Second Language Teaching	Spring	6
EDUE335 Teaching Speaking to Second Language Learners	Autumn	2
EDUE319 Programming and Methodology in Second Language Teaching	Autumn	6
EDUE331 Teaching Reading to Second Language Learners	Autumn	2
EDUE329 Teaching listening to Second Language Learners	Spring	2
EDUE334 Teaching Writing to Second Language Learners	Spring	2
EDUE336 Practicum or Project in Language Teaching	Spring or Autumn	6
<b>Subjects:</b>		
<b>English for Professional Purposes Orientation</b>		
<b>100-Level – NESB (Non English Speaking Background) students</b>		
ELL151 English for Academic Purposes: A Second Language Perspective	Autumn	6

#### Course Information

ELL152	English Language Studies 1	Spring	6
ELL171	An Introduction to Linguistics: The English Language	Spring	6
<b>100-Level – ESB (English Speaking Background) students</b>			
ELL161	English for Academic Purposes: A First Language Perspective	Spring	6
ELL171	An Introduction to Linguistics: The English Language	Spring	6
<b>200-Level Core- NESB and ESB students</b>			
ELL271	English Language Studies 2	Autumn	8

#### 200-Level Electives - NESB and ESB students

##### One of the following subjects:

LING210	Communicating in a Foreign Language (This subject has been added as an elective in this stream for 2005 only)	Spring	8
PHIL255	Interpretation and Communication A	n/o 2005	8
CCS223	Introduction to Publishing Studies: Print	n/o 2005	8

#### 300-Level Core - NESB and ESB students

ELL371	English Language Studies 3	Spring	8
ELL310	Language and Communication in a Global Context	Autumn	8
EDUL314	Language and Ideology	Autumn	8

### English Literatures

The English major introduces students to a broad range of literary texts – novels, poetry, essays, drama, short stories, film, diaries, letters – drawn from medieval to contemporary popular culture. The major offers a rich international curriculum. Students read literatures written or performed in English from Australia, Africa, the Caribbean, New Zealand and the Pacific, Canada, India, and the UK. They are encouraged to enquire into the politics of the production and reception of these texts – to understand aesthetics and the valuation of literature as related to questions of race, gender, sexuality, class, and nation. The English major enhances reading, writing and speaking skills, enabling students to analyse what they read and articulate their response to reading with critical acumen and cultural sensitivity.

Within the major, students can range broadly across genres and literary periods or they can follow streams of subjects in areas including Australian literature, Postcolonial literatures, Indigenous Australian/Canadian/New Zealand literatures, Gender Studies, and Literature by historical periods. Further specialisation is possible within each stream, e.g. Canadian within Postcolonial, or Medieval and Renaissance within Historical, or Modern and Contemporary within Historical. Interest in theory can also be followed through a combination of gender, postcolonial and modernist subjects.

English is often combined as a double major with Communication and Cultural Studies, but students may combine it with any other approved Arts major. It is often taken as the Arts major in the Arts/Law double-degree and it is an ideal second major for journalism students in the Bachelor of Communication and Media Studies.

### English for Teaching Careers

Students intending to teach in primary schools should take at least two English subjects. Students intending to be secondary English teachers need at least 28 credit points of English. In both cases, one of the English subjects will need to contain the word “Literature” in the title. (This regulation is imposed by the NSW Education Department.)

### Major Study

A major study in English Literatures is made up of at least 54 credit points: 6 at 100-level, 24 at 200-level and 24 at 300-level. Of the 54, at least 46 credit points will be in subjects having the prefix ENGL with at least 6 credit points at 100-level and at least 16 credit points at 300-level having that prefix. The remaining 8 credit points may be an ENGL subject or LANG305 or PHIL255 (see below). At 300-level, Pass Conceded or Pass Restricted grades will not accrue credit points towards the major.

### Pre-requisites for 200- and 300-Level Subjects

To gain entry into 200-level English subjects, students must have at least 36 credit points at 100-level including at least 6 credit points of English (ENGL prefix). For entry to 300 level subjects, students must have at least 16 credit points at 200 level, including at least 8 credit points of English (ENGL prefix).

### Minor Study

A minor in English Literatures will consist of at least 28 credit points from the Course Structure of the English Literatures major. Not more than two subjects may be taken at 100 level. Students may not cross-count any subjects from the minor in any other minor or major study.

### Honours

See Bachelor of Arts (Honours)

## Study Program

Subjects	Session	Credit Points
<b>100-Level requirements for the major: at least 6 credit points from the following subjects</b>		
ENGL113 Contemporary Writing in Australia	Spring	6
ENGL120 An Introduction to Literature and Screen Studies	Autumn	6
ENGL121 Text and Gender	n/o 2005	6
<b>200-Level requirements for the major: at least 24 credit points from the following subjects*.</b>		
ENGL217 An Introduction to Poetry	Summer 2004/05	8
ENGL228 English Renaissance Literature and Culture	Autumn	8
ENGL229 Romantic Literature	Autumn	8
ENGL230 Page to Stage: Modes of Performance	Autumn	8
ENGL243 Children's and Young Adult Fantasy Literature	Summer 04/05	8
ENGL244 Children's Literature in Australia	Summer 05/06 TBA	8
ENGL248 Chaucer	Spring	8
ENGL255 Eighteenth Century Literature and Culture	Spring	8
ENGL259 An Introduction to Canadian Literature	n/o 2005	8
ENGL260 Nineteenth Century Australian Literary Culture	Autumn	8
ENGL264 Modernism	n/o 2005	8
ENGL265 English and the Empire	Spring	8
ENGL266 Literature of the Victorian Age * (Note: this subject rotates with ENGL229, so it will be offered in 2006)	n/o 2005*	8
<b>300-Level requirements for the major: At least 24 credit points from the following subjects*</b>		
Note. : At 300-level, Pass Conceded or Pass Restricted grades will not accrue credit points towards the major.		
ENGL312 Shakespeare, Jonson and Early Modern Dramatic Literature	Spring	8
ENGL334 Critical Theory: Development and Debates	Autumn	8
ENGL337 Sex, Power and Chivalry: Medieval to Modern Literature	Spring	8
ENGL345 Twentieth Century Women's Literature	n/o 2005	8
ENGL346 Contemporary Canadian Australian Literatures	n/o 2005	8
ENGL350 Fantasy and Popular Fiction	Autumn	8
ENGL355 Fourteenth Century Literature	n/o 2005	8
ENGL365 Nineteenth Century Women's Literature	Autumn	8
ENGL366 Black Writing from Africa, the U.S. and the Caribbean	n/o 2005	8
ENGL373 Pacific Literature	Spring	8
ENGL374 From Page to Screen	n/o 2005	8
ENGL375 Australia Fair: Nation, 'Race' and Culture	Spring	8
ENGL376 Representing India	Autumn	8
<b>*Other approved subjects:</b>		
<b>Students may count ONE of the following subjects towards the English Literatures major.</b>		
<b>Students wishing to enrol in these subjects must satisfy the subject prerequisites.</b>		
LANG305 Literature and Society in Renaissance Europe	Autumn	8
PHIL255 Interpretation and Communication A	n/o 2005	8

## European Studies

European history, literature and language subjects (French, Italian or Spanish) contribute to this interdisciplinary major. European Studies is an inter-disciplinary and multi-disciplinary major, which allows students to study a European language (French, Italian or Spanish) at either beginner/near beginner or post-HSC level, and subjects dealing with European civilization, unities and minorities. The core subjects of the major are offered by the Modern Languages, History and Politics programs; other subjects relevant to Europe which complement the European Studies major are offered by the Science, Technology and Society, Philosophy and English Literatures programs.

The major in European Studies brings together expertise existing in various disciplines, drawing together their combined knowledge of a specific geo-political and economic area of great significance to Australia, and to equip students with the linguistic, cultural and intellectual skills required to understand and interpret European affairs.

### Major Study

A major in European Studies will consist of a minimum of 52 credit points, including a minimum of 28 cp chosen from Schedules 1, 2 or 3 and the remainder from Schedule 4. Students must include 24 cp at 300-level. Students wishing to study French should take the subjects listed in Schedule 1 below. Students wishing to study Italian should take the subjects listed in Schedule 2 below. Students wishing to study Spanish should take the subjects listed in Schedule 3 below.

### Minor Study

A minor in European Studies will consist of two sequential language subjects from Schedule 1,2 or 3, together with EURO220 and EURO320. Students may not cross-count any subjects from the minor in any other minor or major study.

### Minor Study in Spanish

A minor study in Spanish will consist of a sequence of four subjects in Spanish language: SPAN151, SPAN152, SPAN251 and SPAN252. Students may not cross-count any subjects from the minor in any other minor or major study.

### Honours

Course Information

See Bachelor of Arts (Honours)

**Study Program**

<b>Schedule I (French core subjects)</b>		<b>Session</b>	<b>Credit Points</b>
FREN151	French IA Language	Autumn	6
or			
FREN251	French IIA Language	Autumn	8
FREN152	French IB Language	Spring	6
or			
FREN252	French IIB Language	Spring	8
EURO220	The European Union: Post-war Integration, 1945 to the Present	Spring	8
EURO320	Nations without States in the European Union	Spring	8

<b>Schedule II (Italian core subjects)</b>		<b>Session</b>	<b>Credit Points</b>
ITAL151	Italian IA Language	Autumn	6
or			
ITAL251	Italian IIA Language	Autumn	8
ITAL152	Italian IB Language	Spring	6
or			
ITAL252	Italian IIB Language	Spring	8
EURO220	The European Union: Post-war Integration, 1945 to the Present	Spring	8
EURO320	Nations without States in the European Union	Spring	8

<b>Schedule III (Spanish core subjects)</b>		<b>Session</b>	<b>Credit Points</b>
SPAN151	Spanish for Beginners I	Autumn	6
or			
SPAN251	Spanish Intermediate I	Autumn	8
SPAN152	Spanish for Beginners II	Spring	6
or			
SPAN252	Spanish Intermediate II	Spring	8
EURO220	The European Union: Post war European Integration, 1945 to the Present	Spring	8
EURO320	Nations without States in the European Union	Spring	8

*Note:* Students who have not taken the following subjects as core subjects may take them as electives:  
FREN251, FREN252, ITAL251, ITAL252, SPAN251, SPAN252

<b>Schedule IV (Elective subjects)</b>		<b>Session</b>	<b>Credit Points</b>
ENGL228	English Renaissance Literature and Culture	Autumn	8
ENGL229	Romantic Literature	Autumn	8
ENGL230	Page to Stage: Modes of Performance	Autumn	8
ENGL248	Chaucer	Spring	8
ENGL255	Eighteenth Century Literature and Culture	Spring	8
ENGL264	Modernism	n/o 2005	8
ENGL312	Shakespeare, Jonson and Early Modern Dramatic Literature	Spring	8
ENGL334	Critical Theory: Development and Debates	Autumn	8
ENGL337	Sex, Power and Chivalry: Medieval to Modern Literature	Spring	8
ENGL355	Fourteenth Century Literature	n/o 2005	8
FREN110	France and the French	Autumn	6
FREN210	France in the Twentieth Century	Spring	8
FREN361	French III C	Autumn, Spring	8
FREN362	French III D	Autumn, Spring	8
HIST124	The Cold War and After	Spring	6
HIST216	Ancient History: Greece	n/o 2005	8
HIST217	Ancient History: Rome	Autumn	8
HIST232	Russia in War and Revolution	Summer 04/05, Autumn 2005	8
HIST286	From Ancient Kingdoms to Colonies Southeast Asia, 1500-1900	Spring	8
ITAL110	Italy and the Italians	Spring	6
LING210	Communicating in a Foreign Language	Spring	8
LANG305	Literature and Society in Renaissance Europe	Autumn	8
LANG371	Advanced Studies in Language/Culture A	Autumn or Spring	8
LANG372	Advanced Studies in Language/Culture B	Autumn or Spring	8
LANG373	Advanced Studies in Language/Culture C	Autumn or Spring	8
PHIL211/311	Greek Philosophy	Summer 04/05	8
POL314	Power and the Modern State	Spring	8
POL315	The Politics of Post-Communist Countries	n/o 2005	8
SPAN151	Spanish for Beginners I	Autumn	6
SPAN152	Spanish for Beginners II	Spring	6
SPAN251	Spanish intermediate I	Autumn	8
SPAN252	Spanish intermediate II	Spring	8
STS336	Advanced Topics in the History of Science 1500-1800	n/o 2005	8

## **French**

A major in French allows students to study French language, literature and culture either as beginners or advanced learners. Students who enter the major at post-HSC (or advanced) level will be exempted from some language subjects.

The French major aims to provide a course of study which will enable students to:

- comprehend normal spoken and written French in any situation;
- speak and write clearly and accurately in French in everyday situations;
- use their increasing knowledge of the structure of the foreign language to move from dependence on formal instruction to ongoing independent acquisition of linguistic proficiency;
- gather and synthesise information on topics of current interest from different French-language sources and in different media;
- recognise and respond personally to culture-specific information and cultural suppositions in French source material, and to differences between French culture and their own cultural heritage;
- make effective use of linguistic resources such as bilingual dictionaries, Web searches, and descriptive grammars;
- better understand the structure and the communicative resources of their own language;
- accurately translate non-specialist French documents into English;
- apply their foreign language skills to a contemporary French workplace environment;
- gain a broad overview of French cultural and literary traditions;
- take the opportunity to include a semester of study abroad at an exchange university in France as part of their Wollongong undergraduate degree.

### **Major Study**

A major in French for beginners or near beginners consists of 66 credit points, and must include 18 cp at 100-level, 24 cp at 200-level and 24 cp at 300-level, as set out below. Students who have achieved a strong 2 Unit HSC pass or equivalent may choose to enter the language sequence at the level of FREN251 and complete a 54 cp major comprising 6 cp (civilisation) at 100-level, 24 cp at 200-level and 24 cp at 300-level, as set out below.

All students wishing to enter the French major at the level of FREN251 must obtain formal approval from the French co-ordinator.

Subject to the pre-requisites listed in the subject database, language and literature/civilization subjects may be taken independently of one another, eg French 1A Language may be taken without also taking FREN110. However students wishing to complete a major in French must complete the sequence set out below.

Native or near-native speakers, whose major also consists of 54 cp, may be granted waivers for FREN251 and FREN252. Such waivers will be granted only at the time of first enrolment in French, in accordance with the Program's policy and with the formal approval of the French co-ordinator or the Convenor of Program. Replacement subjects to make up the 54cp for the major are to be chosen from the additional subjects listed below. Credit may be granted for language courses taken at University level in accordance with established University of Wollongong guidelines.

### **Honours**

See Bachelor of Arts (Honours)

### **Minor Study in Languages Other Than English (LOTE): French**

A Minor in French consists of four sequential language subjects in French. Students beginning at 100-level will take 28 credit points and students beginning at upper levels will take 32 credit points). Students may not cross-count any subjects from the minor in any other minor or major study.

Example: A student beginner could take a Minor by studying FREN151, FREN152, FREN251 and FREN252.

A student who had studied French to HSC level and was commencing University French at second year level could take a Minor by studying FREN251, FREN252, FREN351 and FREN352.

Whilst the minor will not be stipulated on the student's testamur at graduation, it will be recorded on the academic transcript.

### **Study Program**

Subjects	Session	Credit Points
<b>100-level</b>		
FREN151 French 1A Language	Autumn	6
FREN152 French 1B Language	Spring	6
FREN110 France and the French	Autumn	6
<b>200-level</b>		
FREN251 French IIA Language	Autumn	8
FREN252 French IIB Language	Spring	8
LING210 Communicating in a Foreign Language	Spring	8

## Course Information

### 300-level

FREN351	French IIIA Language	Autumn	8
FREN352	French IIIB Language	Spring	8
LANG305	Literature and Society in Renaissance Europe	Autumn	8
<b>Depending on availability, additional subjects may be taken from:</b>			
FREN210	France in the Twentieth Century	Spring	8
FREN361	French IIIC	Autumn or Spring	8
FREN362	French IIID	Autumn or Spring	8
LANG371	Advanced Studies in Language/Culture A	Autumn, Spring or Summer	8
LANG372	Advanced Studies in Language/Culture B	Autumn, Spring or Summer	8
LANG373	Advanced Studies in Language/Culture C	Autumn, Spring or Summer	8
FREN391	French Study Abroad A	Autumn, Spring or Summer	8
FREN392	French Study Abroad B	Autumn, Spring or Summer	8
FREN393	French Study Abroad C	Autumn, Spring or Summer	8

### Gender Studies

Gender Studies is an interdisciplinary major which provides a strong emphasis on what has traditionally been described as Women's Studies. This focus needs to be retained in the so-called post-feminist age, with its increasingly sophisticated and pervasive attempts to persuade the consumer/reader/viewer that gender equity is finally here and belief systems are merely a matter of choice. One of the tasks of this major is to address and redress this notion. At the same time, as its name indicates, subjects in the Major increasingly attempt to deal not only with the impact of being gendered as female, but also with definitions of masculinity and queer theory.

In this major, the construction of gender is viewed from a variety of academic perspectives: literary, historical, sociological, and legal; and deals with a range of associated cultural issues: eg. race, ethnicity, class and the family.

The major recognises that students come from a range of backgrounds and may want to study over a range of areas. Accordingly, the major is made up of subjects from the faculties of Arts, Commerce, Education, Health and Behavioural Sciences, Law and Science.

### Major Study

A major in Gender Studies consists of at least 54 credit points chosen from the following range of subjects (at least 24 credit points must be at 300 level). Students will choose at least five subjects from the list of Specialist Electives, and no more than two from the list of General Electives. Normal pre-requisites apply for the following subjects unless these are waived by the Head of Unit. This applies, in particular, to LAW subjects, for which LAW100 Law in Society is a necessary pre-requisite and will not be waived. Please note: not all subjects will be available in any one year.

### Minor Study

A minor in Gender Studies will consist of at least 28 credit points of subjects from the Course Structure of the Gender Studies major including not more than two subjects at 100 level. At least three of the subjects must be from the list of Specialist Electives. Students may not cross-count any subjects from the minor in any other minor or major study.

### Study Program

Specialist Electives		Session	Credit Points
<b>Students must choose at least five subjects from this list.</b>			
<b>100-Level</b>			
ENGL121	Text and Gender	n/o 2005	6
<b>200-Level</b>			
ECON208	Gender Work and the Family	Autumn	6
EDUC292	Gender and Social Justice (also available as EDUE324)	Spring	8
ENGL260	Nineteenth Century Australian Literary Culture	Autumn	8
PHIL260	Philosophy of Feminism A (also available as PHIL363)	Autumn	8
POL290	Women in Society – Productive and Reproductive Labour	Spring	8
SOC205	Sociology of the Family	Spring	8
<b>300-Level</b>			
EDUE324	Gender and Social Justice (also available as EDUC292)	Spring	6
ENGL337	Sex Power and Chivalry: Medieval to Modern Literature	Spring	8
ENGL345	Twentieth Century Women's Literature	n/o 2005	8
ENGL365	Nineteenth Century Women's Literature	Autumn	8
ENGL375	Australia Fair: Nation, 'Race' and Culture	Spring	8
HIST318	The Making of the Modern Australian Woman	Spring	8
PHIL363	Philosophy of Feminism B (also available as PHIL260)	Autumn	8
SOC330	Gender and Society	Spring	8



**General Electives****Students must choose no more than two subjects from this list.****100-Level**

EESC104	The Human Environment: Problems and Change	Spring	6
ENGL113	Contemporary Writing in Australia	Spring	6
POP102	Sex, Drugs and Rock'n'Roll: Public Health Perspectives	Autumn	6
SOC103	Aspects of Australian Society	Autumn	6

**200-Level**

EDUF212	Education II	Spring	6
ENGL259	Introduction to Canadian Literature	n/o 2005	8

**300-Level**

CCS330	The Practices of Everyday Life	Spring	8
LAW303	Children, Families and the Law	Autumn	6
PHIL380	Bioethics	Spring	8

**History**

History aims to understand and interpret the past. It is the subject that brings the past into the present. History is a dynamic discipline, since each generation returns to the past with different questions, based on their own experiences and concerns. Historical analysis brings together both facts and moral judgements to analyse the background to contemporary conditions. Perhaps more importantly, History can also help us to imagine the kinds of futures we want to live.

As an interpretive discipline, History helps to sharpen the skills needed in a broad range of occupations. It teaches us to research information, to critically evaluate debates, and to communicate our arguments and beliefs clearly and effectively. It enriches our experience of the world by offering ways to understand the broad scope of human experiences – from our everyday lives, to larger global processes.

Wollongong's History Program focuses upon themes that link Australian and international history. These themes include culture, environment, gender, globalisation, historiography, labour, war and regional development. These themes may be traced in a variety of settings, whether in broad histories of specific Australian, Asian and European societies; in more specific historical examinations of empires, the political and social impacts of wars, and the development of the State; or in themes as diverse as the history of water, commodification history or the history of sickness and death.

Studying history at Wollongong is also about learning what it is to be a historian and what is involved in doing history. Each subject contains steps towards developing a sophisticated critical appreciation of contemporary approaches to historical theories, methods, interpretation, argument, and uses of evidence.

**Career Opportunities**

History graduates follow many employment paths. They work in Federal and State government departments, in private enterprise, as researchers, in the media, in travel, marketing and tourism, as teachers at primary and secondary schools, institutes of technology and universities, as well as finance and service industries. Wollongong History graduates work in these areas and many more.

History also builds a solid foundation for future study. The contemporary world of work calls for 'life long learning' and a major which develops the capacity to inquire and analyse and to communicate information, ideas and concepts as History at Wollongong will do, is one that will allow a graduate to be flexible in taking postgraduate courses.

**Major Study**

The History Major is the central core of study in a History student's undergraduate Bachelor of Arts degree. It will consist of 52 credit points out of at least 144 credit points, with 24 credit points being at 300-level. The purpose of a major is to provide a specific and coherent course of study which will allow students to develop skills. Each subject in the major is intended to provide an understanding of a topic, area or theme which will develop and enhance skills so as progress to other subjects can take place.

100-level subjects require no special knowledge and are best described as survey courses. They will, however, provide students with a general introduction to a particular time, place or theme. Students will be introduced to and learn many valuable basic skills to help them build a strong foundation for their major. In these subjects students will be introduced to learn how to:

- identify the causes and effects of historical change;
- summarise the main points of a historical work;
- identify the thesis or central argument of a historical work;
- describe the historical context of a work;
- identify different types of historical evidence;
- see how historians produce different accounts of the same of the event; and
- to begin the use of primary source material to produce and defend arguments.

200-level subjects will refine and extend both skills and historical knowledge. They offer study in greater depth than the survey courses and will take a closer look at events and places. 300-level subjects take a detailed approach to major historical



problems and unlike earlier studies; students will use a wide range of primary sources to investigate topics. These may include film, radio, television, archival manuscript, oral interviews, literature, newspapers, parliamentary records, photographs, diaries and/or company documents.

Students taking a major in History can count up to 16 credit points from the following: ABST150, ABST200, FREN210, and STS238 as well as the Politics subjects listed in the table below. Note: students enrolled in a double major may only cross-count one subject.

### Minor Study

A minor in History will consist of at least 28 credit points in subjects from the schedule of the History major. Students may not take more than two subjects at 100 level, and may not cross-count any subjects from the minor in any other minor or major study.

### Honours

See Bachelor of Arts (Honours)

### Study Program

Subjects		Session	Credit Points
<b>100-Level</b>			
AUST101	Australian Studies, Cultures and Identities	Autumn	6
AUST102	Australian Studies, Narrating the Nation	Spring	6
HIST107	Empires, Colonies and the Clash of Civilisations	Autumn	6
HIST109	Living Australia 1880-2000	Spring	6
HIST124	The Cold War and After	Spring	6
POL141	Change and Debate in Contemporary Australian Politics	Summer 2004/05	6
<b>200-Level</b>			
HIST203	Australians and the Great War	Autumn	8
HIST216	Ancient History: Greece	n/o 2005	8
HIST217	Ancient History: Rome	Autumn	8
HIST232	Russia in War and Revolution	Summer 2004/05,	8
		Autumn	
HIST239	A Cultural History of Water	Spring	8
HIST260	War, Military Revolution and the Rise of the State, 1340-1660		8
		n/o 2005	
HIST275	The Growth of the United States, 1865-1898	n/o 2005	8
HIST276	America's Rise to Globalism Since 1919	Spring	8
HIST286	From Ancient Kingdoms to Colonies: Southeast Asia, 1500-1900	Spring	8
HIST288	Religion and Military Rule in Southeast Asia	n/o 2005	8
HIST291	Film and History	Spring	8
POL230	Latin America: Conquest and Colonisation	Autumn	8
<b>300-Level</b>			
AUST300	Twentieth Century Australian Culture	Spring	8
HIST300	Reporting War: A History	n/o 2005	8
HIST318	The Making of the Modern Australian Woman	Spring	8
HIST322	Nazism, Stalinism and World War Two	Spring	8
HIST325	Theory and Method of History	Spring	8
HIST334	Regional History	Autumn	8
HIST339	Australians and War: From Kokoda to Iraq	n/o 2005	8
HIST340	New Approaches to Australian Urban and Rural Working Class History	n/o2005	8
HIST341	The Struggle for Europe: 1494-1713	Autumn	8
HIST342	Sickness and Death: Social History and Public Health in Australia	Spring	8
HIST350	Debates in Australian Cultural History	n/o 2005	8
HIST379	Culture and Identity in Indonesian History 1870-2002	n/o 2005	8
HIST394	Commodification History	Autumn	8
POL315	The Politics of Post-Communist Countries	n/o 2005	8
POL368	Protest and Power in America: the Sixties	Autumn	8

### Information Studies

Information is of central importance today and it is crucial that people can critically analyse and negotiate their way in this environment. In contrast to courses providing a training in information technology, information studies concentrates on examining information issues from social perspectives. In addition to learning about computer languages and communication systems, this major enables students not only to use, but also to critically analyse, reflect on and contribute to transforming information systems in their social context. The subjects in the major include a range of social science and humanities disciplines in Arts, and beyond, that specifically address information issues.

The core subjects look specifically at information issues. They do not assume prior study in the discipline. The subjects in the strands draw from established courses in four faculties.

### Major Study

A major in Information Studies is an interdisciplinary program of core and optional subjects totalling 66 credit points, depending on the course strands chosen by the student. It includes at least 24 credit points at 300 level. Subjects are drawn from the Faculties of Arts, Commerce, Informatics and Law. Students must complete all core subjects and the required subjects from two strands. Students may not take BOTH Strand 2 and Strand 4.

(Note: If required subjects in particular strands are not available, please see the coordinator of the major for advice on appropriate alternatives).

### Minor Study

A minor in Information Studies consists of 28 or 30 credit points from the schedule of the major, including two subjects from the core and including one subject from each of the three levels. IACT subjects may not be counted with BUS subjects at 200 and 300 levels. Students may not cross-count any subjects from the minor in any other minor or major study.

### Study Program

Subjects	Title	Session	Credit Points
<b>Core</b>			
CCS105	Introduction to Communication and Cultural Studies	Autumn	6
CSCI102	Systems	Spring	6
STS128	Computers in Society	Spring	6
<b>Electives -Two of the following strands must be completed but students cannot count both strand 2 and strand 4</b>			
<b>Strand 1: Three of the following subjects, including at least two at 300-level:</b>			
CCS225	Introduction to Electronic Publishing	n/o 2005	8
CCS335	Electronic Cultures	Autumn	8
POL224	Politics and the Media	Spring	8
STS240	Technological Change, Popular Culture and New Media	Spring	8
STS288	Science and the Media	Autumn	8
STS322	Politics in a Technological society	Autumn	8
<b>Strand 2: All of the following:</b>			
IACT201	Information Technology and Citizens' Rights	Autumn	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
IACT301	Information and Communication Security Issues	Spring	6
IACT303	Worldwide Networking	Spring	6
<b>Strand 3</b>			
LAW100	Law in Society	Autumn	6
LAW210	Contract Law	Spring	6
<b>and two of the following:</b>			
LAW302	Law of Business organizations (2005 only)	Autumn	6
LAW317	e-Commerce Law (2005 only)	Spring	6
LAW331	Intellectual Property Law	Autumn	6
LAW348	Media Law	n/o 2005	6
<b>Strand 4: All of the following:</b>			
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS212	Database Management Systems	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed Information Systems	Autumn	6

### Italian

A major in Italian allows students to study the language, literature and culture either as beginners or advanced learners. Students who enter the major at post-HSC or advanced levels will be exempted from some language subjects.

The purpose of the major is to provide a course of study which allows any student, regardless of their background in the discipline, to include in their degree a specialisation in Italian which will enable them to:

- comprehend normal spoken and written Italian in any situation;
- express themselves clearly and accurately in spoken and written Italian in a wide range of situations;
- use their increasing knowledge of the foreign language to move from dependence on formal instruction to ongoing independent acquisition of linguistic proficiency;
- gather and synthesise information on topics of current interest from different Italian language texts and in different media;
- recognise and respond personally to culture-specific information and cultural suppositions in Italian texts and to differences between Italian culture and their own cultural heritage;
- better understand the structure and the communicative resources of their own language;
- take the opportunity to include one or two semesters of study abroad at an exchange university in Italy as part of their Wollongong undergraduate degree.

### Major Study

A major in Italian for beginners or near beginners consists of 66 credit points, and must include 18cp at 100-level, 24cp at 200-level and 24cp at 300-level, as set out below. Students who have achieved a strong 2 Unit HSC pass or equivalent may

choose to enter the language sequence at the level of ITAL251 and complete a 54cp major comprising 6cp (civilisation) at 100-level, 24cp at 200-level and 24cp at 300-level, as set out below. All students wishing to enter the Italian major at the level of ITAL251 or ITAL152 must obtain approval from the Italian co-ordinator.

Native or near-native speakers, whose major also consists of 54cp, may be granted waivers for ITAL251 and ITAL252. Such waivers will be granted only at the time of first enrolment in Italian, in accordance with the Program's policy and with the formal approval of the Italian co-ordinator or the Convenor of Program. Replacement subjects, to make up the 54cp for the major are to be chosen from the additional subjects listed below. Credit may be granted for language courses taken at university level in accordance with established University of Wollongong guidelines. Subject to the pre-requisites listed in the subject database, language and literature/civilization subjects may be taken independently of one another, eg Italian 1A Language may be taken without also taking ITAL110.

### Honours

See Bachelor of Arts (Honours)

### Minor study in Languages other than English (LOTE): Italian

A Minor study in Italian consists of four sequential subjects in Italian. The minor will consist of 28 or 32 credit points of language study (28cp for students beginning at 100-level and 32 cp for students beginning at upper levels).

Students may not cross-count any subjects from the minor in any other minor or major study.

Example:

A student beginner could take a Minor by studying ITAL151, ITAL152, ITAL251 and ITAL252.

A student who had studied Italian to HSC level and was commencing university Italian at second year level could take a Minor by studying ITAL251, ITAL252, ITAL351 and ITAL352.

Whilst the minor will not be stipulated on the student's testamur at graduation, it will be recorded on the academic transcript.

### Study Program

Subjects		Session	Credit Points
<b>100-level</b>			
ITAL151	Italian IA Language	Autumn	6
ITAL152	Italian IB Language	Spring	6
ITAL110	Italy and the Italians	Spring	6
<b>200-level</b>			
ITAL251	Italian IIA Language	Autumn	8
ITAL252	Italian IIB Language	Spring	8
LING210	Communicating in a Foreign Language	Spring	8
<b>300-level</b>			
ITAL351	Italian IIIA Language	Autumn	8
ITAL352	Italian IIIB Language	Spring	8
LANG305	Literature and Society in Renaissance Europe	Autumn	8
<b>Depending on availability, additional subjects may be taken from:</b>			
LANG371	Advanced Studies in Language/Culture A	Autumn or Spring	8
LANG372	Advanced Studies in Language/Culture B	Autumn or Spring	8
LANG373	Advanced Studies in Language/Culture C	Autumn or Spring	8
ITAL391	Italian Study Abroad A	Autumn or Spring	8
ITAL392	Italian Study Abroad B	Autumn or Spring	8
ITAL393	Italian Study Abroad C	Autumn or Spring	8

### Japanese

The major in Japanese is designed with three streams of study dependent on a student's language proficiency on entry. Students may enter the major at beginner, intermediate (including post-HSC level) or advanced level. All students who wish to enter at other than beginners' level must consult with the convenor of the major. The major consists of language and civilization subjects and a period of study in Japan. It focuses on developing language skills that will be practical in real life situations.

### Major Study

The major in Japanese has three possible entry points, beginner, intermediate (including post-HSC), or advanced. For beginners, the major consists of 82 credit points, for intermediate, 62, and for advanced students, 54 credit points. Intermediate and Advanced stream students are required to successfully complete a placement test. A unique feature of this course is the possibility of a period of study in Japan for beginners and intermediate entry students.

Intermediate entry is recommended for students having completed either 2 unit or 3 unit Japanese at a NSW high school. The beginner stream assumes no prior knowledge of the language. The Japanese major articulates with NSW TAFE Certificate 3 in Japanese.

The Modern Languages Program has had considerable success in obtaining funding and scholarships to assist with the costs of travel and residence in Japan. However, funding is not guaranteed and students may need to meet the costs associated with travel and accommodation for any periods of study in Japan. Students wishing to study beginner's Japanese but NOT as a major study are encouraged to take JAPA141 in Session 1, or JAPA101 in Summer Session, if available. JAPA102 and JAPA103 are also available for beginners who are interested in basic Japanese for either teaching or business respectively. JAPA101, 102 and 103 are all terminating subjects and are not considered as prerequisites for any other subject in Japanese. JAPA110 is available to all students who wish to familiarise themselves with Japanese civilization and society but who do not wish to pursue language studies. Another special feature on offer at Wollongong for suitably qualified graduates is one year of study at a Japanese University in JAPA551 for which some generous scholarships are available.

### Honours

See Bachelor of Arts (Honours)

### Minor study in Languages other than English (LOTE): Japanese

Students may also take a Minor consisting of any four sequential subjects in Japanese. The minor will consist of 28 or 32 credit points of language study. Students may not cross-count any subjects from the minor in any other minor or major study. Whilst the minor will not be stipulated on the student's testamur at graduation, it will be recorded on the academic transcript.

Example: A student beginner could take a Minor by studying JAPA141, JAPA142, JAPA143 and JAPA261.

### Study Program

Subjects		Session	Credit Points
<b>100-level: Beginners or near beginners</b>			
JAPA110	Japan and the Japanese	Spring	6
JAPA141	Beginners' Japanese I	Autumn	6
JAPA142	Beginners' Japanese II	Spring	6
JAPA143	Beginners' Japanese III	Summer	8
<b>100-level: Intermediate (or Post-HSC) and Advanced</b>			
JAPA110	Japan and the Japanese	Spring	6
<b>200-level: All students</b>			
JAPA261	Intermediate Japanese I	Autumn	8
JAPA262	Intermediate Japanese II	Spring	8
JAPA271	In-country Japanese Session (Japan)*	Winter (Japan)	8
LING210	Communicating in a Foreign Language	Spring	8
<b>300-level</b>			
JAPA310	Japanese Economics and Media	Autumn	8
JAPA361	Advanced Japanese I	Autumn	8
JAPA362	Advanced Japanese II	Spring	8

**Electives:** These general subjects do not count towards the major in Japanese. They may be taken as general electives in the degree by students majoring in Japanese or by students wishing to study the subject without majoring.

JAPA101	An Introduction to Japanese*	Summer	6
JAPA102	Japanese Studies for Educational Purposes*	Spring	6
JAPA103	Japanese Studies for Business Purposes*	Spring	6

\*Subject to availability.

Note: JAPA271 is offered to students majoring in Japanese and places are limited. If all places are not filled, places may be made available to students undertaking the minor in Japanese.

### Philosophy

Do human beings have free will? Is the mind distinct from our physical constitution? Does God exist? Is morality a matter of opinion? These are some of the questions that may be examined in introductory philosophy degrees. Areas of study include ethics, logic, feminism, aesthetics, political philosophy, philosophy of law, philosophy of language, epistemology and metaphysics.

The curriculum covers established areas of enquiry such as theory of knowledge, metaphysics, philosophy of mind and action, philosophy of language, theoretical ethics, political philosophy, philosophy of law, feminism, and applied philosophy, including health and environmental ethics.

Upper level subjects within the philosophy major divide into two broad streams of study: (a) Ethics, Politics and Law, and (b) Knowledge, Mind, Language, and Metaphysics. These streams of study reflect central areas of enquiry making up the subject matter of philosophy.

Introductory subjects in philosophy and logic serve to introduce students to the themes that are taken up in more depth in the upper level subjects within streams (a) and (b). In the interests of a good education within the discipline, it is recommended to students that they include in their major a spread of subjects across streams (a) and (b).

### Major Study

A major in Philosophy comprises 52 credit points of PHIL subjects, of which at least 24 credit points are 300-level PHIL subjects. Students taking a major in Philosophy may count 8 credit points from the following: POL211, POL314, POL324.

### Minor Study

A minor in Philosophy will consist of at least 28 credit points in subjects from the schedule of the Philosophy major. Students may not take more than two subjects at 100 level, and may not cross-count any subjects from the minor in any other minor or major study.

### Honours

See Bachelor of Arts (Honours)

### Assessment

Requirements vary from subject to subject and are set out in general terms in each of the subject entries.

### Study Program

Subjects		Session	Credit Points
<b>100-level</b>			
PHIL101	Knowledge, World and Values	Autumn	6
PHIL102	Body, Mind and Persons	Spring	6
PHIL106	Media, Ethics and Law	Spring	6
PHIL112	Logic A	Spring	6
PHIL151	Practical Reasoning A	Autumn	6
<b>200-level</b>			
PHIL206	Practical Ethics	Autumn	8
PHIL211	Greek Philosophy A	Summer 2004/05	8
PHIL215	Philosophy of the Arts	n/o 2005	8
PHIL216	Logic B	n/o 2005	8
PHIL232	Political Philosophy A	Spring	8
PHIL255	Interpretation and Communication A	n/o 2005	8
PHIL256	Ethics and the Environment A	Autumn	6
PHIL258	Ethics and the Environment B	Autumn	8
PHIL260	Philosophy of Feminism A	Autumn	8
PHIL262	Theories of Knowledge and Metaphysics A	n/o 2005	8
PHIL270	Philosophy of Law A	Spring	8
PHIL284	Ethics A	Spring	8
PHIL286	Philosophy of Social Science	n/o 2005	8
PHIL288	Philosophy of Mind and Action A	Autumn	8
<i>Other approved 200-level subject</i>			
POL211	Democracy in Theory and Practice	Summer 2004/05, Spring	8
<b>300-level</b>			
PHIL301	Ethics B	Spring	8
PHIL305	Special Philosophical Questions	Spring/Autumn/ Summer	8
PHIL311	Greek Philosophy B	Summer 2004/05	8
PHIL322	Theories of Knowledge and Metaphysics B	n/o 2005	8
PHIL351	Philosophy of Mind and Action B	Autumn	8
PHIL355	Interpretation and Communication B	n/o 2005	8
PHIL363	Philosophy of Feminism B	Autumn	8
PHIL370	Philosophy of Law B	n/o 2005	8
PHIL380	Bioethics	Spring	8
PHIL383	Political Philosophy B	Spring	8
PHIL390	Contemporary Political Philosophy	n/o 2005	8
<i>Other approved 300-level subjects (Students may choose one of the following POL subjects)</i>			
POL314	Power and the Modern State	Spring	8
POL324	Culture and Politics	Autumn	8

### Politics

The discipline of Politics is an exciting, vibrant and constantly changing body of ideas, approaches and methods. The Politics program offers subjects in international relations, Australian politics, political theory, comparative politics, the politics of developing countries, public policy, culture and media. Students are advised to study as broadly as possible across the areas offered by the discipline.

The purpose of the major is to acquaint students with key areas of Politics as a discipline. Political study involves examining the origins and nature of consent, authority and consensus, which underpin social order. Many factors are covered in this examination - political institutions, political economy, culture, class, gender and ethnicity. Politics can and does occur at many levels, from international relations to the nation state, from local communities to the individual. The study of politics is not just to do with politics in the here and now but concerns itself with both the past and the future. Whether it is a country being studied, relations between countries, or a body of political ideas, politics engages us with choices about how to live life and how best to contribute to society.

Political studies at the University of Wollongong places considerable emphasis on developing strong theoretical foundations to equip students to analyse the continuing challenges of a globalising world and their role within it. A key area of concern is international relations and the discipline also stresses the roles played by culture and political economy in both the developed and developing world.

### Major Study

A major in Politics consists of 52 credit points, including at least 24 credit points at 300-level in Politics subjects. Graduates with a Politics major will normally have included at least one subject from each of the following areas in their program: (1) Australian Politics, (2) Political Theory and (3) the Politics of a country other than Australia or Comparative Politics or International Relations.

Note: Students who intend to undertake Honours in Politics must complete POL314 power and the Modern State. Students majoring in Politics may count up to 16 cp from the following subjects: PHIL232, PHIL390, SOC308, SOC309, SOC318, SOC221, STS322 and STS335. Note: Students enrolled in a double major may only cross-count one subject.

### Minor Study

A minor in Politics will consist of at least 28 credit points in subjects with the prefix 'POL' from the Course Structure of the Politics major. Students may not take more than two subjects at 100 level, and may not cross-count any subjects from the minor in any other minor or major study.

### Honours

See Bachelor of Arts (Honours)

### Study Program

Subjects 100-level		Session	Credit Points
POL111	Australian Politics	Autumn	6
POL121	Politics in a Globalising World	Spring	6
POL141	Change and Debate in Contemporary Australian Politics	Summer 04/05	6
<b>200-level</b>			
POL210	The European Union: Post-War Integration, 1945 to the Present	Spring	8
POL211	Democracy in Theory and Practice	Summer 04/05, Spring	8
POL213	Key Concepts and Theories in Political History	n/o 2005	8
POL216	Politics in the USA	n/o 2005	8
POL222	Australian Public Policy	n/o2005	8
POL224	Politics and the Media	Spring	8
POL225	International Relations: An Introduction	Autumn	8
POL230	Latin America: The Politics of Conquest and Colonisation	Autumn	8
POL290	Women in Society: Productive and Reproductive and Labour	Spring	8
<b>300-level</b>			
POL301	Politics Internship	Autumn/ Spring/ Summer	16
POL302	Foundations of Australian Political Culture	Spring	8
POL303	Peacekeeping, Sovereignty and Global Order	n/o 2005	8
POL314	Power and the Modern State (Compulsory for students intending to take Politics Honours)	Spring	8
POL315	The Politics of Post-Communist Countries	n/o 2005	8
POL317	Politics in the South Pacific	n/o 2005	8
POL318	The Asian Tigers - Newly Industrialising Countries in Transition	Autumn	8
POL319	Political Economy in the New Millennium	n/o 2005	8
POL323	North and South: Approaches to Relations between Advanced, Industrialising and Less Developed Countries	Spring	8
POL324	Culture and Politics	Autumn	8
POL368	Protest and Power in America: The Sixties	Autumn	8

### Resource and Environmental Studies

Resource and Environmental Studies looks at environmental issues from social perspectives, in contrast to environmental science, which uses scientific disciplines to approach environmental issues. The rationale for RES is that many environmental problems are not technical issues but involve political struggles, ethical choices, human behaviour, economic trade-offs and conflicts over scientific knowledge. To tackle these wider social dimensions intrinsic to most environmental issues of concern today, a wide-ranging social analysis is valuable and essential.

The subjects in the major include a range of social science and humanities disciplines (in Arts and beyond) that specifically address environmental issues. There is a core of four subjects from Earth and Environmental Sciences, Science Technology and

Society (STS) and Philosophy. In addition, students must choose subject sequences from two of four areas - STS, EESC, Law and Economics - so that they are exposed to a variety of disciplinary perspectives (in the core) and to require all students to develop advanced level understanding in two contrasting disciplines (in the sequences). The major is thus genuinely interdisciplinary.

### Major Study

A major study in Resource and Environmental Studies for the Bachelor of Arts degree is available by undertaking the following program. It must include at least 24 credit points at 300-level. A major in Resource and Environmental Studies involves an interdisciplinary combination of core and optional subjects. The **core** is made up of four subjects from Earth and Environmental Sciences, Science, Technology and Society and Philosophy. Students must also choose **subject sequences** from **two** of four areas: Science, Technology and Society, Earth and Environmental Sciences, Law or Economics.

### Minor Study

A minor in Resource and Environmental Studies consists of 28 or 30 credit points from the schedule of the major, including two subjects from the core of the major and including one subject at each of the three levels. Students may not cross-count any subjects from the minor in any other minor or major study.

### Study Program

Subjects	Title	Session	Credit Points
<b>Core</b>			
EESC104	The Human Environment: Problems and Change	Spring	6
STS116	Environment in Crisis: Technology and Society	Spring	6
PHIL256	Ethics and the Environment A	Autumn	6
STS300	The Environmental Context	Autumn	8
<b>Electives</b>			
<b>Two of sequences A, B, C and D must be completed.</b>			
<b>Sequence A: Both of the following subjects:</b>			
(Note: Students undertaking sequence A are strongly recommended to take ECON111, Introductory Microeconomics. Furthermore, to be able to handle ECON311 well, it is recommended that students also take ECON215, Microeconomic Theory and Policy.)			
ECON309	Environmental Economics	Spring	6
ECON311	Natural Resource Economics	Autumn	6
<b>Sequence B: Three of the following subjects:</b>			
(Note: Students must have successfully completed at least one 200-level subject as a prerequisite for 300-level subjects.)			
EESC205	Population Studies	Autumn	6
EESC210	Social Spaces: Rural and Urban	Spring	6
EESC208	Environmental Impact of Societies	Spring	6
EESC308	Environment and Heritage Management	Spring	8
<b>Sequence C: Two compulsory subjects and one elective:</b>			
STS100	Social Aspects of Science and Technology	Autumn	6
STS335	The Politics of Risk	Spring	8
<b>and one of the following subjects:</b>			
STS238	Changing Images of Nature and the Environment	n/o 2005	8
STS278	Scientific and Technological Controversy	Spring	8
<b>Sequence D: All of the following subjects:</b>			
LAW100	Law in Society	Autumn	6
LAW308	Administrative Law	Autumn	6
LAW334	Environmental Law	Spring	6

### Science, Technology and Society (STS)

Modern science and technology underpin almost every feature of our society. They impinge daily upon our lives and shape our futures. Science, Technology and Society (STS) is the interdisciplinary academic field which studies the origin, nature and social impact of science, technology and medicine, and seeks to inform science and technology policies for the future.

What *are* science and technology, and how have they developed? What do scientists and technologists *do*? What makes their knowledge 'scientific'? How do their activities affect us? Can we influence their direction? How will our future depend on them? Can we solve the problems that seem to come with the opportunities? Students in all fields need to confront these questions.

In the past generation there has been a revolution in our understanding of these issues. Of the few STS teaching programs in Australian universities, Wollongong's is one of the longest established, most comprehensive and most innovative.

STS can be studied as a major, leading to Honours and PhD programs. A minor in STS, or individual STS subjects, can be selected as a suitable complement to a major in many other fields.

### Major Study

A major in STS consists of 52 or 54 credit points, and comprises:

- STS100 Social Aspects of Science and Technology (or equivalent if taken in 2004 or before)
- STS278 Scientific and Technological Controversy

## Course Information

- STS322 Politics in a Technological Society
- plus
- one other STS subject at 200 level,
  - two other STS subjects at 300-level,
  - one other STS subject at any level

## Minor Study

A minor in STS consists of 28 or 30 credit points from the schedule of the major. The minor includes one subject at each of the three levels. Subjects in the minor may not be cross-counted with any other minor or major study.

## Honours

See Bachelor of Arts (Honours)

## Study Program

IMPORTANT NOTE: Some STS subjects at 200 and 300 levels have two versions: 8 credit point versions are listed in the General Schedule and 6 credit point versions taken as electives in degrees from faculties offering 6 credit point subjects at upper levels. (See Electives for Non-Arts students in table below). These upper-level 6 credit point subjects WILL NOT count towards the Arts degree nor the Bachelor of Communication and Media Studies.

Subjects	Title	Session	Credit Points
<b>100 level subjects:</b>			
STS100	Social Aspects of Science and Technology	Autumn	6
STS112	Revolutions in Science: History, Philosophy and Politics of Science	Spring	6
STS116	Environment in Crisis: Technology and Society	Spring	6
STS120	Technology in Society: East and West	Spring	6
STS128	Computers in Society	Spring	6
<b>200 level subjects</b>			
STS215	Globalisation: Technology Culture and Media	Autumn	8
STS218	Environment in Crisis: Technology and Society	Spring (Batemans Bay, Bega, Moss Vale and Shoalhaven only)	8
STS223	The Politics of Medicine and Health	Summer 04/05	8
STS238	Changing Images of Nature and the Environment	n/o 2005	8
STS240	Technological Change, Popular Culture and New Media	Spring	8
STS250	From Molecular Genetics to Biotechnology	Autumn	8
STS278	Scientific and Technological Controversy	Spring	8
STS288	Science and the media	Summer 04/05, Autumn	8
<b>300 level subjects</b>			
CCS335	Electronic Cultures	Autumn	8
HIST342	Sickness and Death: Social History of Public Health in Australia	Spring	8
PHIL380	Bioethics	Spring	8
STS300	The Environmental Context	Autumn	8
STS322	Politics in a Technological Society	Autumn	8
STS335	The Politics of Risk	Spring	8
STS360	Technology and Body Politics	n/o 2005	8
STS390	Media, War and Peace	Spring	8
STS399	Research Topics in Science, Technology and Society	Spring/Autumn	8

## Elective subjects for Non-Arts students

The following STS subjects are often taken as electives in the Faculties of Science and Engineering and can be taken in any degree where 6 credit point upper level subjects are the norm. They do not count in the Bachelor of Arts or the Bachelor of Communication and Media Studies or as Arts subjects in their combined degrees.

STS241	Technological Change, Popular Culture and New Media	Spring	6
STS251	From Molecular Genetics to Biotechnology	Autumn	6
STS306	Special Topics in the Social and Policy Aspects of Engineering	Spring	6
STS376	The Politics of Risk	Spring	6

## Sociology

Sociology is the study of social life, cultural and social change and the social causes and consequences of human behaviour. By acquiring sociological skills students develop the ability to analyse a wide variety of social processes, institutions, causes of social change and the structures of groups and societies. Specific areas of study for sociologists include gender and social class, crime and punishment, race and ethnicity, the family, welfare and education reform, everyday life experiences, social movements, social change in Asia, sport and entertainment, and youth and popular culture.

## Major Study

A major in Sociology consists of at least 54 credit points:



- at least 6 credit points of Sociology at 100 level in either SOC103 or SOC104
- at least 24 credit points at 200-level including SOC203 and SOC231 and an elective chosen from the list below;
- at least 24 credit points at 300-level in SOC subjects.

### Minor Study

A minor in Sociology will consist of at least 28 credit points from the schedule of the major. It will include either SOC103 or SOC104, as well as SOC203 and SOC231. It must not include more than two subjects at 100 level. Subjects in the minor may not be cross-counted with any other minor or major study.

### Honours

See Bachelor of Arts (Honours)

### Study Program

Subjects	Session	Credit Points
<b>100 level: at least one of the following subjects</b>		
SOC103 Aspects of Australian Society	Autumn	6
SOC104 Communication, Media and Society	Spring	6
<b>200 level: at least 24 credit points including SOC203 and SOC231.</b>		
POL290 Women in Society: Productive and Reproductive Labour	Spring	8
SOC203 Explaining Society	Autumn	8
SOC205 Sociology of the Family	Spring	8
SOC206 Youth and Popular Culture	Spring	8
SOC222 Crime, Criminality and Criminalisation	n/o 2005	8
SOC224 Violence, Fear and Civilisation: the Evolution of States	Autumn	8
SOC231 Social Analysis	Spring	8
SOC241 Culture and Communication	n/o 2005	8
SOC242 Contemporary Issues in Society	n/o 2005	8
SOC243 Contesting Asia: Culture, Diversity, Difference	Autumn	8
SOC244 Punishment: Purpose, Practice, Policy	Spring	8
<b>300 level: at least 24 credit points</b>		
SOC302 Contemporary Social and Political Thought	Autumn	8
SOC303 The Individual in Society	n/o 2005	8
SOC305 Race and Ethnic Studies	Autumn	8
SOC308 Social and Public Policy	Spring	8
SOC309 Social Movement and Community Activism	Spring	8
SOC310 Community Organisations, the Third Sector and Civil Society	Autumn	8
SOC318 Modernity, Development and Social Change	Spring	8
SOC325 Social Research Methods in Policy and Evaluation	Autumn	8
SOC330 Gender and Society	Spring	8
SOC334 Bread and Circuses	Spring	8
SOC341 Special Topics in Sociology	Autumn/Spring	8
SOC349 Governing Society; The Self and the Social	n/o 2005	8

### Major Study areas offered by other Faculties and approved for inclusion in the Bachelor of Arts

The following majors may be taken as second majors only in the single Bachelor of Arts (course code 702). BA students wishing to take one of these majors must combine it with a major from the Faculty of Arts.

In double degrees with the Bachelor of Arts, Psychology and Population Health may be taken as single majors.

### Economics

(Taught by the Faculty of Commerce)

#### Major Study

The Economics major may be taken in the Bachelor of Arts (course code 702) as a second major, provided that the first major is taught by the Faculty of Arts. Aboriginal Studies has the same status as a major taught by Arts.

Students wishing to undertake this major should refer to the Course Structures of the Bachelor of Commerce.

Students are required to take the 8 subjects as set out in the Major Study (48 credit points) and will also need to satisfy any subject prerequisites of any of these subjects. Students in the Bachelor of Arts are not required to complete the core subjects of the Bachelor of Commerce, nor the Integrated subject which is a requirement of the major in the Bachelor of Commerce.

### Education

(Taught by the Faculty of Education)

Study in Education in the Arts degree is grouped into 3 recommended specialised strands:

- Language in Education
- Equity and Socio-cultural Diversity
- Educational Psychology and Special Education

The suggested pattern of studies for each recommended specialised strand is outlined below. Students are free to select subjects across the recommended specialised strands and are able to incorporate related areas of interest into a comprehensive program of studies. It is recommended that students consult with the BA Coordinator in the Faculty of Education regarding their intended program of studies.

### Major Study

Education may be undertaken as a second major in the Bachelor of Arts (course code 702), provided that the first major is selected from one of the major studies offered by the Faculty of Arts (including Aboriginal Studies) and provided that all the degree requirements are met.

A Major in Education in the Bachelor of Arts is made up of at least 48 credit points chosen as follows.

Students must successfully complete EDUF111 and EDUF212,

Plus a further 24 credit points from 300 and 400 level subjects listed in the 3 recommended specialised strands below,

Plus a further 12 credit points from subjects listed in the 3 recommended specialised strands below. Subjects may also be selected from those listed in the Education Course Structures with an EDUE prefix (it should be noted that enrolment quotas apply). Related disciplines, such as Communication Studies, English Language and Linguistics, Psychology or Sociology, may be studied if approved by the Faculty of Education - BA (Education) Coordinator.

Subjects	Session	Credit Points
<b>Core</b>		
EDUF111 Education I	Autumn	6
EDUF212 Education II	Spring	6
<b>Language in Education Stream</b>		
Students should note that a specialist qualification in Language Teaching, the Certificate In Second Language Teaching is also available. Contact the Faculty Of Education for further information.		
<b>Elective: 200 level</b>		
EDUC291 Youth, Culture, Education	Autumn	8
<b>Electives: 300 level</b>		
EDUE303 Teaching Language and Literacy Through Literature in Early Childhood Years	Autumn	6
EDUE304 Teaching Language Through Literature in the Primary and Middle Years	Spring	6
EDUE319 Programming and Methodology in Second Language Teaching	Autumn	6
EDUE336 Practicum or Project in Second Language Teaching	Autumn	6
EDUE340 Materials and Technology in Second Language Teaching	Spring	6
EDUL314 Language and Ideology	Autumn	8
EDUE317 English Language: Examining Learners Problems	Autumn	6
EDUT301 Research Methods	Autumn	6
<i>The following 2 cp subjects are also available. Students proposing to enrol in these subjects should consult with BA Coordinator within the Faculty of Education.</i>		
EDUE328 The English Sound System	Spring	2
EDUE329 Teaching Listening to Second Language Learners	Spring	2
EDUE330 Teaching English in International Contexts	n/o 2005	2
EDUE331 Teaching Reading to Second Language Learners	Autumn	2
EDUE332 Teaching Grammar and Vocabulary	Autumn	2
EDUE334 Teaching Writing to Second Language Learners	Spring	2
EDUE335 Teaching Speaking to Second Language Learners	Autumn	2
<b>Equity and Socio-cultural Diversity Stream</b>		
<b>Electives: 200 level</b>		
EDUC291 Youth, Culture, Education	Autumn	8
EDUC292 Gender and Social Justice	Spring	8
<b>Electives: 300 level</b>		
EDUE326 Curriculum and Program Evaluation	n/o 2005	8
EDUE301 Issues in Aboriginal Education	Autumn	6
EDUE302 Aboriginal Pedagogy	Spring	6
EDUL314 Language and Ideology	Autumn	8
EDUT301 Research Methods	Autumn	6
<b>Educational Psychology and Special Education Stream</b>		
<b>Electives: 200 level</b>		
EDUC213 Educational Psychology in Teaching and Learning	Spring	6
EDUC217 The Psychology of Exceptional Children	Autumn	6
EDUF204 Learners with Exceptional Needs	Spring	6
EDUF232 Early Intervention and Children with Special Needs	Autumn/Spring	6
<b>Electives: 300 level and 400 level</b>		
EDUF311 Education III	Autumn	6
EDUE320 Behaviour Management (Not to count with EDUE311)	Spring	6

EDUE321	Reading Difficulties (Not to count with EDUE312)	Autumn and Spring	6
EDUF311	Education III	Autumn	6
EDUT301	Research Methods	Autumn	6
EDUE411	Disability issues across the Life Span	Autumn	6
EDUE412	Programming for Individuals with Moderate to Severe Disabilities	Spring	6
<b>400-Level Honours (Separate course application required)</b>			
EDUZ401	Education Honours	Annual	24

### **Human Geography or Physical Geography**

(Taught by the Faculty of Science)

#### **Major Study**

Human Geography or Physical Geography may be undertaken as a second major in the Bachelor of Arts, provided that the first major is selected from one of the major studies offered by the Faculty of Arts and provided that all the degree requirements are met. Students wishing to major in Human Geography or Physical Geography in the BA degree must complete 60 credit points as outlined in the Course Structures for the Bachelor of Science (course code 742). (You are not required to complete the additional elective subjects). Please refer to the course structures of the Bachelor of Science for details of the major. Students anticipating a career in teaching would be well advised to choose options from both physical and human geography, and may also choose Geology subjects depending on the prerequisites.

### **Legal Studies**

(Taught by the Faculty of Law)

Note: Legal studies subjects are not designed to prepare students to be practising lawyers.

#### **Major Study**

The Legal Studies major may be taken in the Bachelor of Arts (course code 702) as a second major, provided that the first major is taught by the Faculty of Arts. Aboriginal Studies has the same status as a major taught by Arts. Students wishing to major in legal studies in the Bachelor of Arts degree must complete 54 points of Legal Studies subjects at Pass Grade or better. LAW100 Law in Society is a compulsory subject in the BA major study. At least 24 credit points of the major study must be taken at the 300-level.

NOTE: The Legal Studies major is NOT available to students enrolled in the Bachelor of Arts / Bachelor of Laws degree.

#### **Study Program**

<b>Subjects</b>	<b>Session</b>	<b>Credit Points</b>
<b>Core</b>		
LAW100 Law in Society	Autumn	6
Elective: 200-level		
LAW210 Contract Law	Spring	6
<b>Electives: 300-level</b>		
LAW302 Law of Business Organisations	Autumn	6
LAW303 Children, Families and the Law	Autumn	6
LAW304 Criminal Law and the Process of Justice	Autumn	6
LAW308 Administrative Law	Autumn	6
LAW315 Taxation Law	Spring	6
LAW316 Occupational Health and Safety	Autumn	6
LAW317 E-Commerce Law	Spring	6
LAW330 Law of Employment	Autumn	6
LAW331 Intellectual Property Law	Autumn	6
LAW332 Labour Relations Law	Spring	6
LAW334 Environmental Law	Spring	6
LAW335 Anti-Discrimination Law	Spring	6
LAW343 International Law	Autumn	6
LAW344 Indigenous Peoples and Legal Systems	Autumn	6
LAW348 Media Law	n/o 2005	6
LAW352 Advanced Taxation Law	Autumn	6
LAW360 Foreign Investment Law in the People's Republic of China	n/o 2005	6

#### **Additional Information**

The maximum number of class hours will not exceed an average of four per week per subject. The subject program will specify the actual class hours required for each subject. Seminars normally commence in the first week of session. Students are asked to indicate their preferred seminar/tutorial times prior to the commencement of session.

**Important:** There may be some restrictions on class sizes in Legal Studies subjects. Accordingly, students are strongly advised to finalise their enrolment in Legal Studies subjects for BOTH Autumn and Spring sessions as early as possible, preferably before the commencement of the academic year. In certain instances, adding Legal Studies subjects after the enrolment or re-

enrolment dates may not be possible.

### **Management**

(Taught by the Faculty of Commerce)

#### **Major Study**

The Management major may be taken in the Bachelor of Arts (course code 702) as a second major, provided that the first major is taught by the Faculty of Arts. Aboriginal Studies has the same status as a major taught by Arts.

Students wishing to undertake this major should refer to the Course Structures of the Bachelor of Commerce.

Students are required to take 8 subjects as set out in the Major Study (48 credit points) and will also need to satisfy the subject prerequisites of any of these subjects. Students in the Bachelor of Arts are not required to complete the core subjects of the Bachelor of Commerce, nor the integrated subject which is a requirement of the major in the Bachelor of Commerce.

### **Marketing**

(Taught by the Faculty of Commerce)

#### **Major Study**

The Marketing major may be taken in the Bachelor of Arts (course code 702) as a second major, provided that the first major is taught by the Faculty of Arts. Aboriginal Studies has the same status as a major taught by Arts.

Students wishing to undertake this major should refer to the Course Structures of the Bachelor of Commerce. Students are required to take the 8 subjects as set out in the Major Study (48 credit points) and will also need to satisfy any subject prerequisites of any of these subjects. Students in the Bachelor of Arts are not required to complete the core subjects of the Bachelor of Commerce, nor the Integrated subject which is a requirement of the major in the Bachelor of Commerce.

### **Psychology**

(Taught by the Faculty of Health and Behavioural Sciences)

Students please note: The course code for the Bachelor of Arts in the Faculty of Arts is 702. Note: Students completing this major in the single Bachelor of Arts degree under Course code 702 must also undertake a major study taught by the Faculty of Arts.

#### **Major Study**

The Psychology major may be taken in the Bachelor of Arts in the Faculty of Arts (course code 702) as a second major, provided that the first major is taught by the Faculty of Arts. Aboriginal Studies has the same status as a major taught by Arts. Students enrolled under Course Code 708 should refer to the Faculty of Health and Behavioural Sciences, which administers that degree. Students wishing to undertake this major should refer to the Course Structures of the Bachelor of Arts in the Faculty of Health and Behavioural Sciences.

Notes: Students of the Faculty of Arts do not select elective subjects from the Health and Behavioural Sciences schedule. Students enrolled in Arts or Communication double degrees may take Psychology as a single major.

## **Bachelor of Arts (Community and Environment)**

Testamur Title:	Bachelor of Arts (Community and Environment)
Abbreviation:	BA
Home Faculty:	Faculty of Arts
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Varies according to location
Starting Session(s):	Autumn/Spring
Location:	Batemans Bay, Bega, Moss Vale, Shoalhaven
UOW Course Code:	BB702, BE702, MV702, SH702
UAC Code:	753106, 753107, 753108, 753102
CRICOS Code:	000612E

Note: Students undertaking the BA at Batemans Bay, Bega, Moss Vale or Shoalhaven must complete a major in Community and Environment

### **Overview**

The BA (Community and Environment) is an interdisciplinary degree constructed from a range of subjects offered by the Faculties of Arts, Commerce and Education. These subjects are offered by a range of delivery modes including videoconferenced lectures and seminars, web-based audio lectures and study modules, face-to-face classes in Shoalhaven, Batemans Bay, Bega and Moss Vale, and online classes taught in combination with classes at the Wollongong campus.

Students gain a broad general education with an emphasis on gaining transferable skills in written and oral communication,

research and computer applications. While the traditional humanities and social sciences skills of reading to understand, writing essays and making convincing presentations are central, so are the related skills of report and submission writing, understanding the use of statistics in arguments and using new technologies to find and present information.

Students are able to study progressions of subjects with a strong Australian content in the areas of environment, social and public policy, cultural heritage (including Aboriginal studies, history and literature), and communication studies (including film and television).

## Advanced Standing

Information about Approved Credit Transfer Arrangements is available at <http://www.uow.edu.au/handbook/advancedstanding/>

## Course Requirements

The Bachelor of Arts (Community and Environment) is made up of 144 credit points of subjects listed in the course structures for the Faculty of Arts and the General Schedule. The degree requires students to complete the 54 credit point major in Community and Environment as set out below. The remainder of the credit points in the degree can be made up of subjects from the Course Structures of the Faculty of Arts or the General Schedule. Students who wish to do so may complete another major or minor study as well as Community and Environment, but this normally means that they commute to Wollongong for some subjects.

For a list of other major and minor studies available, please see the Bachelor of Arts (Course Code 702). In their first two semesters of study, students must undertake at least 12 credit points in subjects taught by member units of the Faculty of Arts. Students may count no more than 60 credit points of 100-level subjects in the degree. Students should refer to the Award Rules for the Bachelor of Arts for further details. Major studies completed are noted on the student's testamur awarded at Graduation.

## Assessment

Assessment in this course varies between subjects and programs, but typically includes a combination of essays, tutorial/seminar presentations and in-class tests and/or exams. Some subjects may have an additional practical component. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session.

## Honours

A Community and Environment Honours year is available at our South Coast and Southern Highlands campuses. The end-on Honours year will be made up of coursework and a supervised thesis designed to prepare students for further research in future employment or future study.

To be eligible to study honours, students must have completed a major in Community and Environment with an average of at least 70% across the major with the additional requirement of a Distinction in two subjects at 300 level in the major. The Faculty of Arts Honours Handbook can be accessed as a PDF document at the following web address: <http://www.uow.edu.au/arts/current/honsb.pdf>

See also Bachelor of Arts (Honours)

## Community and Environment

Why does Australia Day mean different things to different people? What part is played by the media, government, the community, scientists and industries in dealing with the environment? How and why does social policy change over time? How can we find out what other people think about cultural issues? What role does history play in helping us to understand present day social change? As a student in the Bachelor of Arts (Community and Environment) you will explore these questions. You will also engage with a wide variety of information and communication technologies and will learn to use web-based discussion boards, e-library facilities, videoconferencing technology, audio-streamed lectures and electronic assignment submission methods. Employers are looking for graduates with these skills.

## Major Study

The Community and Environment major is made up of 54 credit points, consisting of one core subject, ARTS112 and 48 credit points of humanities and social science elective subjects which must be taken from the list below. Of the 48 credit points, at least 14 credit points must be taken at 200 level and at least 24 credit points must be taken at 300 level. The remainder of the degree consists of electives chosen from Arts or from the subjects offered from the other degrees offered at the South Coast and Southern Highlands campuses or from the General Schedule.

## Note for Students planning to proceed to the Graduate Diploma in Education (Primary) or Graduate Diploma in Education (Secondary)

In order to be eligible for entry into the Graduate Diploma in Education program, you will need a good average mark (currently around 70) and you must complete the requirements of your degree. The Department of Education and Training also requires a certain pattern of study which is different for primary and secondary teachers. You need to plan this into your degree.

The Faculty of Education can advise you on a course of study which satisfies the requirements of the Department of Education and Training (DET) for Primary or Secondary teaching.

Students intending to be Primary teachers may need to incorporate into their BA degree the two Education subjects **EDUF111 and EDUF212** or two Psychology subjects. Please check with the Faculty of Education (EDUF subjects) or Health and Behavioural Sciences (PSYC subjects) or check the web Undergraduate Course Handbook for the availability of these subjects at locations outside Wollongong.

### Honours

See Bachelor of Arts (Honours)

### Study Program

Subjects		Session	Credit Points
<b>Core</b>			
ARTS112	People and Place	Autumn	6
<b>100 level electives</b>			
ABST150	Introduction to Aboriginal Australia	Autumn, Spring (Wollongong) Spring (Batemans Bay, Bega, Moss Vale, Shoalhaven)	6
CCS105	Introduction to Communication and Cultural Studies	Autumn	6
EESC104	The Human Environment: Problems and Change	Spring	6
ELL161	English for Academic Purposes: a First Language Perspective	Spring (Wollongong only)	6
ELL171	An Introduction to Linguistics: The English Language	Spring	6
ENGL120	An Introduction to Literature and Screen	Autumn	6
PHIL151	Practical Reasoning A	Autumn	6
<b>200 level electives:</b>			
ABST200	Aboriginal History Since Invasion	Autumn, Spring (Wollongong), Autumn (Batemans Bay, Bega, Moss Vale, Shoalhaven)	8
CCS219	Cinema in Australia	Spring	8
EESC210	Social Spaces: Rural and Urban	Spring	6
ENGL260	Nineteenth Century Australian Literary Culture	Autumn	8
HIST203	Australia and the Great War	Autumn	8
POL290	Women in Society: Productive and Reproductive Labour	Spring	8
SOC231	Social Analysis	Spring	8
STS218	Environment in Crisis: Technology and Society	Spring	8
<b>300 level electives</b>			
ABST300	Indigenous Theories of Decolonisation	Spring	8
CCS357	Television Cultures	n/o 2005	8
ENGL337	Sex, Power and Chivalry: Medieval to Modern Literature	Spring	8
ENGL375	Australia Fair: Nation, 'Race' and Culture	Spring	8
HIST334	Regional History	Autumn	8
SOC308	Social and Public Policy	Spring	8
SOC325	Social Research Methods Policy and Evaluation	Autumn	8
STS300	The Environmental Context	Autumn	8

### Bachelor of Arts (Dean's Scholars)

Testamur Title:	Bachelor of Arts (Dean's Scholars)
Abbreviation:	BA
Home Faculty:	Faculty of Arts
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	702 A
UAC Code:	753105
CRICOS Code:	000612E

### Overview

The Dean's Scholars Degree provides an academic space for high-achieving single degree Arts students. With a limited intake of ten students per year, it aims to provide an enriched educational experience for high-achieving, motivated Arts and

Humanities students who are hoping to make a contribution to their field of study through teaching or research, or as professionals in Arts or humanities areas. Students have the opportunity to attempt subjects not normally available to first-year students and to perform above the level normally expected at first-year. They may be granted exemption from certain first-year subjects and may be permitted extended subject loads, enabling them to complete the degree in under the normal time and enter Honours in their third year.

Each Dean's Scholar has an academic mentor, a member of academic staff who undertakes to offer advice in the Scholar's major area of study.

The Dean's Scholars degree is not a scholarship. Students intending to apply for a place in this degree are encouraged to apply for a University of Wollongong undergraduate scholarship separately.

Dean's Scholars must undertake one major study from the Faculty of Arts and must maintain an average of 75 in each year of study. If the student's average falls below 75, the student will be transferred into the Bachelor of Arts (UOW Course code 702).

As a Bachelor of Arts degree, the Dean's Scholars degree is flexible. Dean's Scholars are able to use the University's student exchange program to undertake a period of study overseas, and several Dean's Scholars have competed successfully for places in the Australian National Internship Program which enables them to undertake a one-session placement in Canberra, usually on the staff of a member of parliament.

### Advanced Standing

Information about Approved Credit Transfer Arrangements is available at <http://www.uow.edu.au/handbook/advancedstanding/>

### Course Requirements

The Bachelor of Arts (Dean's Scholars) is made up of 144 credit points of subjects listed in the course structures for the Faculty of Arts or the General Schedule. In their first two semesters of study, students must undertake at least 12 credit points in subjects taught by member units of the Faculty of Arts and may undertake no more than 60 credit points of 100-level subjects. Students should refer to the Award Rules for the Bachelor of Arts for further details.

The degree requires one major study to be completed, but a student may undertake two major studies within the normal requirements of the degree. Completed major studies are noted on the student's testamur, awarded at Graduation. The degree does not have subjects compulsory for all students, but individual majors may have compulsory subjects.

### Major Study Areas from the Faculty of Arts:

Dean's scholars must select one major from this list, but may select subjects from the General Schedule to make up their total of 144 credit points. Normally, Dean's scholars do not take majors from outside the Faculty.

Aboriginal Studies  
 Asia Pacific Studies  
 Australian Studies  
 Communication Studies  
 English Language Studies  
 English Literatures  
 European Studies  
 French  
 Gender Studies  
 History  
 Information Studies  
 Italian  
 Japanese  
 Philosophy  
 Politics  
 Resource and Environmental Studies  
 Science, Technology and Society  
 Sociology

### Minor Studies

Students enrolled in the Bachelor of Arts (Dean's Scholars) may choose from the following minors:

Aboriginal Studies  
 Asia-Pacific Studies  
 Australian Studies  
 Communication Studies  
 English Language and Linguistics  
 English Literatures  
 European Studies

## Course Information

French  
Gender Studies  
History  
Information Studies  
Italian  
Japanese  
Philosophy  
Politics  
Resource and Environmental Studies  
Science, Technology and Society  
Sociology  
Spanish

## Internship and International Subjects

(See subject descriptions for more information on these subjects)

ARTS201 Introduction to Australia for International Students  
ARTS202 International Studies  
ARTS301 Arts Internship  
POL301 Politics Internship (for students taking the Australian National Internship Program or Washington Internship)

## Assessment

Assessment in this course varies between subjects and programs, but typically includes a combination of essays, tutorial/seminar presentations and in-class tests and/or exams. Some subjects may have an additional practical component. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session.

## Honours - see Bachelor of Arts (Honours)

Students who successfully complete the Bachelor of Arts (Dean's Scholars) Degree will be accepted into the Bachelor of Arts (Honours), provided that supervision is available in the Faculty for their proposed thesis topic.

The Faculty of Arts Honours Handbook can be accessed as a PDF document at the following web address:

<http://www.uow.edu.au/arts/current/honsb.pdf>

## Bachelor of Arts (Honours)

Testamur Title:	Bachelor of Arts (Honours)
Abbreviation:	BA (Hons)
Home Faculty:	Faculty of Arts
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Mostly face-to-face. (In the case of Community and Environment Honours, students will be taught primarily by flexible delivery mode).
Starting Session(s):	Normally autumn, but some schools permit mid-year entry
Location:	Wollongong
UOW Course Code:	701
UAC Code:	n/a
CRICOS Code:	000611F

## Overview

The Honours year functions in the university curriculum principally as a bridge between undergraduate study and advanced research. It offers a unique opportunity to study a chosen discipline or interdisciplinary area in depth and to undertake a personalised research project. As it is also the entry point for postgraduate research students it provides a stimulating and supportive environment in which students formulate ideas, engage in debate and acquire the critical tools that will equip them for a research career. Honours is the most direct pathway to further academic research; a class II division 2 (II.2) is the minimum requirement for entry into an MA research or PhD program. As such, the Honours year provides:

- training in research skills and in information systems (archives, the Library, databases, electronic research networks);
- opportunity to practice articulating complex ideas orally and in writing, practice in working closely with a supervisor on a project and in preparing a major project within a deadline;
- experience in devising, researching and writing up an individual topic of study in an extended argument/thesis.

## Entry Requirements

Entry to the Bachelor of Arts (Honours) is determined by a recommendation from the Honours Co-ordinator of the School, following the student's application to the University and the School for admission to the Honours year. For the Bachelor of Arts (Honours) in Community and Environment, the recommendation will be made by the Community and Environment Honours Co-



ordinator.

To qualify for admission to a course leading to a Bachelor of Arts (Honours) degree a person shall have:

- qualified at this University for the award of a relevant Pass Bachelor degree, with an average of at least 70% across the major in which the Honours degree will be undertaken, with the additional requirement of a Distinction in two subjects at 300 level in the specific major,

OR

- qualified at another tertiary institution for the award of a Pass Bachelor degree containing a coherent study equivalent to a relevant major study with an average of at least 70% across the major in which the Honours degree will be undertaken, with the additional requirement of a Distinction in two subjects at 300 level in the specific major.
- satisfactorily completed other approved requirements (if necessary).

## Course Requirements

Each Program has its unique Honours Course made up of a thesis (50% of the total mark) and a program of coursework (50% of the total mark). In all cases, students considering Honours or Joint Honours are encouraged to talk to the School Honours Coordinators well in advance to seek approval for enrolment, discuss their program, and negotiate a thesis topic and supervisors.

## Grade of Honours

The overall grade of Honours is determined by calculation of the weighted average mark (WAM) for the 400-level subject in which the student is enrolled. Honours are awarded in the following categories:

Class I (WAM 85 to 100%)

Class II, Division 1 (WAM 75 to less than 85%)

Class II, Division 2 (WAM 65 to less than 75%)

Class III (WAM 50 to less than 65%)

If the WAM is below 50%, an Honours grade is not awarded.

## Areas of Study in Honours

An Honours year in the Faculty of Arts is available in the following areas:

Aboriginal Studies#

Communication and Cultural Studies

Community and Environment\*

English Language and Linguistics

English Literatures

European Studies

French

History

Italian

Japanese

Philosophy

Politics

Science, Technology and Society

Sociology

*\*Available at Batemans Bay, Bega, Moss Vale and Shoalhaven only.*

Students may also undertake **Joint Honours** where two of the areas set out above can be combined or when a discipline from the Faculty of Arts is combined with a discipline from another Faculty. Students who are intending to undertake Joint Honours should consult the Faculty Honours Co-ordinator.

# Students who have completed a double major may be accepted into an Honours year. The Honours course will be administered by the academic unit of the student's second major, subject to approval by the Head of the relevant academic unit and the Head of the Aboriginal Studies Program.

## Honours Guide and Code of Practice (Honours)

The **Faculty of Arts Honours Guide** provides detailed information on all Honours courses. It is provided in hard copy to all honours students can be accessed as a PDF document at the following web address:

<http://www.uow.edu.au/arts/current/honsb.pdf>

Students are advised to refer to the following University of Wollongong web site for access to the **Code of Practice** - Honours:

<http://www.uow.edu.au/handbook/honourscode.html>

## Honours Subjects

**Please note new subject requirements for 2005:** Full-time students enrol in one 24 credit point subject each session. Part-

## Course Information

time students enrol in the 12 credit point equivalent each session. The way the subject is constituted (i.e. the relationship between thesis and coursework) is determined by individual Programs and/or Schools. Details of the Honours courses offered by different Programs are outlined below.

Subjects		Session	Credit Points
<b>School of English Literatures, Philosophy and Languages</b>			
ELL 451	Honours in English Language and Linguistics	Autumn, Spring	24
ELL 452	Honours in English Language and Linguistics (PT)	Autumn, Spring	12
ENGL411	English IV Honours	Autumn, Spring	24
ENGL412	English IV Honours (PT)	Autumn, Spring	12
ENGL421	Combined Honours (English)	Autumn, Spring	24
ENGL422	Combined Honours (English) (PT)	Autumn, Spring	12
EURO411	European Studies Honours	Autumn, Spring	24
EURO412	European Studies Honours (PT)	Autumn, Spring	12
FREN451	French IV Honours	Autumn, Spring	24
FREN452	French IV Honours (PT)	Autumn, Spring	12
ITAL451	Italian IV Honours	Autumn, Spring	24
ITAL452	Italian IV Honours (PT)	Autumn, Spring	12
JAPA451	Japanese IV Honours	Autumn, Spring	24
JAPA452	Japanese IV Honours (PT)	Autumn, Spring	12
LANG431	Combined French and Italian Honours (PT)	Autumn, Spring	24
LANG432	Combined French and Italian Honours (PT)	Autumn, Spring	12
PHIL411	Philosophy Honours	Autumn, Spring	24
PHIL412	Philosophy Honours (PT)	Autumn, Spring	12
PHIL421	Combined Philosophy Honours	Autumn, Spring	24
PHIL422	Combined Philosophy Honours (PT)	Autumn, Spring	12
<b>School of History and Politics</b>			
HIST411	History IV (Honours)	Autumn, Spring	24
HIST412	History IV (Honours) (PT)	Autumn, Spring	12
HIST431	Joint Honours in History and another Discipline	Autumn, Spring	12
HIST432	Joint Honours in History and another Discipline (PT)	Autumn, Spring	6
POL 411	Politics IV (Honours)	Autumn, Spring	24
POL 412	Politics IV (Honours) (PT)	Autumn, Spring	12
POL 431	Joint Honours in Politics and another Discipline	Autumn, Spring	24
POL 432	Joint Honours in Politics and another Discipline (PT)	Autumn, Spring	12
<b>School of Social Sciences, Media and Communication</b>			
CCS 411	CCS Honours	Autumn, Spring	24
CCS 412	CCS Honours (PT)	Autumn, Spring	12
CCS 421	Joint Honours in Communication and Cultural Studies and another Discipline	Autumn, Spring	24
CCS 422	Joint Honours in Communication and Cultural Studies and another Discipline (PT)	Autumn, Spring	12
SOC 411	Sociology IV (Honours)	Autumn, Spring	24
SOC 412	Sociology IV (Honours) (PT)	Autumn, Spring	12
SOC 461	Joint Honours in Psychology and Sociology	Autumn, Spring	24
SOC 462	Joint Honours in Psychology and Sociology (PT)	Autumn, Spring	12
SOC 421	Joint Honours in Sociology and another Discipline	Autumn, Spring	24
SOC 422	Joint Honours in Sociology and another Discipline (PT)	Autumn, Spring	12
STS 411	Science, Technology and Society Honours	Autumn, Spring	24
STS 412	Science, Technology and Society Honours (PT)	Autumn, Spring	12
STS 431	Joint Honours in Science, Technology and Society and another Discipline	Autumn, Spring	24
STS 432	Joint Honours in Science, Technology and Society and another Discipline (PT)	Autumn, Spring	12
<b>Community and Environment</b>			
ARTS411	Community and Environment Honours (Batemans Bay, Bega, Moss Vale and Shoalhaven campuses only)	Autumn, Spring	24
ARTS412	Community and Environment Honours (PT) (Batemans Bay, Bega, Moss Vale and Shoalhaven campuses only)	Autumn, Spring	12
<b>All Schools</b>			
ARTS421	Joint Honours (Arts and other Faculties)	Autumn, Spring	12
ARTS422	Joint Honours (Arts and other Faculties) (PT)	Autumn, Spring	6

## Double degrees with the Bachelor of Arts

The following double degree programs are available to suitably qualified students of the Faculty of Arts. The Faculty of Arts administers the Bachelor of Arts/Bachelor of Commerce and the Bachelor of Communication and Media Studies/ Bachelor of Arts.

For information on double degrees administered by other faculties, students should consult the entries of the second faculty (see “Home Faculty” in the table below).

UAC Code	UOW Code	Home Faculty	Course name
751301	703	Arts	Bachelor of Arts/Bachelor of Commerce
751201	771	Law	Bachelor of Arts/Bachelor of Laws
751350	794	Arts	Bachelor of Communication and Media Studies/Bachelor of Arts (for details, see under Double Degrees with the Bachelor of Communication and Media Studies)
751501	720	Creative Arts	Bachelor of Creative Arts/Bachelor of Arts
751302	704	Engineering	Bachelor of Engineering (Civil, Environmental, Materials, Mechatronics, Mining)/Bachelor of Arts
751303	704E and 704F	Informatics	Bachelor of Engineering (Computer, Electrical, Telecommunications)/ Bachelor of Arts
751801	747 and 747A	Science	Bachelor of Science/Bachelor of Arts

## Bachelor of Arts / Bachelor of Commerce

Testamur Title:	Bachelor of Arts/ Bachelor of Commerce
Abbreviation:	BA, BCom
Home Faculty:	Faculty of Arts
Duration:	4.5 years full-time or part-time equivalent
Total Credit Points:	216
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn/Spring. (Students with Advanced Standing may begin in Summer Session if appropriate subjects are available).
Location:	Wollongong
UOW Course Code:	703
UAC Code:	751301
CRICOS Code:	012086A

### Overview

This double degree program enables students to combine a major study from the Bachelor of Arts with the core subjects and a major study from the Bachelor of Commerce. The advantage of a the double degree over a double major in Arts and Commerce subjects in the BA is that it enables qualified students to proceed to an honours year in either Arts or Commerce.

### Course Requirements

To qualify for the award of the double degree of Bachelor of Arts, Bachelor of Commerce a candidate shall accrue an aggregate of at least 216 credit points by satisfactory completion of subjects approved for inclusion in the Bachelor of Arts, the Bachelor of Commerce and the General Schedule.

The 216 credit points shall include:

- the subjects prescribed for one of the majors for the Bachelor of Arts degree; this will include one major study taught by a member unit of the Faculty of Arts or a major in Psychology or Population Health;
- the subjects prescribed for one of the majors for the Bachelor of Commerce degree;
- not more than 96 credit points for 100-level subjects.

Note the change to course rule 105, as from 2004 “In the case of Arts double degrees the major study required for the Arts component of the double degree will be selected from one of the majors offered by member units of the Faculty of Arts\*\* and approved for inclusion in the Course Structures of the Bachelor of Arts (course code 702).

*Exception:* Students majoring in Psychology or Population Health in Arts double degree programs will complete the subjects prescribed for the majors in the course structures of Bachelor of Arts offered by the Faculty of Health and Behavioural Sciences (course code 708).”

\*\* Including Aboriginal Studies.

### Assessment

Assessment in this course varies between subjects and programs, but typically includes a combination of essays, tutorial/seminar presentations and in-class tests and/or exams. Some subjects may have an additional practical component. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session.

### Major Study

The requirements for all Arts majors are listed under the Bachelor of Arts in the Faculty of Arts where the majors are administered by the Faculty of Arts or for Psychology and Population Health in the Bachelor of Arts in the Faculty of Health and Behavioural Sciences. The requirements for all Commerce majors are listed under the Bachelor of Commerce within the Faculty

## Course Information

of Commerce. Students enrolled in the double degree program should consult both faculties about their choice of major studies.

## Minor Study

Students may also take a minor study in any of the majors listed in the Course Structures of the Bachelor of Arts (Course code 702).

## Honours

An Honours degree of Bachelor of Arts or Bachelor of Commerce requires additional study (one year full-time, or two years part-time) and may be undertaken by students who meet the requirements for enrolment in Honours early as possible and especially prior to the commencement of 300 level subjects.

Students should consult the single degree Bachelor of Arts and Bachelor of commerce entries for Honours requirements.

The Faculty of Arts Honours Handbook can be accessed as a PDF document at the following web address:

<http://www.uow.edu.au/arts/current/honsb.pdf>

## Bachelor of Communication and Media Studies

Testamur Title:	Bachelor of Communication and Media Studies
Abbreviation:	BCM
Home Faculty	Faculty of Arts
Course Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Mostly Face-to-face
Starting Session(s):	Autumn/Spring
Campus:	Wollongong
UOW Course Code:	798
UAC Code:	753109 (Journalism) 753110 (Screen Studies) 753111 (Advertising and Marketing) 753113 (Media Technology Studies) <i>No intake in 2005</i>
CRICOS Code:	045471G

## Overview

This degree draws on the University's expertise in global communication and digital media. It introduces students to a variety of theoretical perspectives in studying media such as film, television and 'new media', and complements these subjects with a number of specialist streams which will open up employment possibilities in fields such as journalism, advertising and marketing, public affairs and press relations.

## Entry Requirements/Assumed Knowledge

### NSW HSC entry through UAC:

Students apply through UAC and satisfy the UAI requirement for the year of application.

Assumed Knowledge: Any two units of English.

### Other Secondary Qualifications:

Students with secondary qualifications outside NSW will be considered on a case-by-case basis.

### Tertiary Qualifications

Applications will be considered from students with the following tertiary qualifications:

- A completed Two-year Diploma or Advanced Diploma from TAFE or another accredited institution;
- Not less than one-sixth of a Bachelor degree from an approved University;
- Other tertiary courses approved by the University of Wollongong.

### Overseas Qualifications

Students with tertiary qualifications obtained overseas will be considered provided that they satisfy University's minimum admission requirements.

### Alternative Entry (Domestic applicants)

STAT test

UAP

Aboriginal and Torres Strait Islander alternative entry program

## Advanced Standing

Information about Approved Credit Transfer Arrangements is available at <http://www.uow.edu.au/handbook/advancedstanding/>

## Course Requirements

All students undertake the 56 credit point core. To complete the major students must also take the required subjects in one of the Specialist Streams: Advertising and Marketing, Journalism or Screen Studies. In 2005 there will be no intake into the Media Technology Studies stream. Students may take extra credit points in optional Summer Session subjects appropriate to their Specialist Streams. The remainder of the 144 credit points may be taken from the Course structures of this degree, subjects taught by member units of the Faculty of Arts (including Aboriginal Studies), or from subjects listed in the General Schedule.

Second majors: Students may take a second major study from this degree by completing the subjects in another specialist stream or they may take a second major from the major studies offered by the member units of the Faculty of Arts (including Aboriginal Studies but excluding Communication Studies). Students who decide to take a second major from Arts may need to complete more than the required minimum of 144 credit points for the degree.

Students may not count more than 60 credit points at 100-level in the degree.

Continuation in the Bachelor of Communication and Media Studies will be dependent upon the student's achieving a cumulative average of at least 65% at the end of each academic year. Students who do not meet the required average will be transferred to the Bachelor of Arts (702).

Minor Study: Students may also take a minor study listed in the Course Structures of the Bachelor of Arts (Course code 702), with the exception of the minor in Communication Studies.

## Course Program

### Core

All students enrolled in the degree must complete the following subjects:

Subjects		Session	Credit Points
<b>100-level Core</b>			
CCS105	Introduction to Communication and Cultural Studies	Autumn	6
SOC110	Understanding Audiences	Autumn	6
POL121	Politics in a Globalising World	Spring	6
PHIL106	Media, Ethics and Law	Spring	6
<b>200-level Core</b>			
CCS200	Media Events and Rituals (This subject replaces the core subject CCS207 for 2005 only)	Spring	8
POL224	Politics and The Media	Spring	8
<b>300-level Core</b>			
CCS335	Electronic Cultures (this subject replaces CCS357 in the core for 2005 only)	Autumn	8
STS390	Media, War and Peace	Spring	8

### Summer Session electives (taught by the Faculty of Creative Arts)

Summer Session subjects are optional and are available to all students enrolled in the degree.

Students must satisfy prerequisites for upper-level subjects.

These subjects are not all offered every year.

Subjects		Session	Credit Points
JOUR299	Desktop publishing	Summer 2004/05	8
DESN108	Screen Production	n/o 2004/5	6
DESN109	Screen Production B	n/o 2004/5	6
DESN190	Introduction to Digital Imaging	n/o 2004/5	6

## Major Studies

### Advertising and Marketing

This major will provide students with an understanding of markets, and how these may be reached by manipulating the "marketing mix", the core elements of marketing practice. A focus on the psychology of consumers as decision-makers provides a foundation for the management of the "marketing communication mix", the various channels through which goods and services are promoted and advertised in the marketplace. The subjects in the stream cover the theory and practice of marketing in both national and international contexts.

These subjects are taught by the Faculty of Commerce.

## Major Study

The Advertising and Marketing major is made up of the 56 credit point core and all the following subjects:

Subjects (All subjects are compulsory)	Session	Credit Points
<b>100-level</b>		
MGMT110 Introduction to Management and Employment Relations*	Autumn/Spring	6
MARK101 Marketing Principles*	Autumn/Spring	6
<b>200-level</b>		
MARK217 Consumer Behaviour	Autumn	6
MARK270 Services Marketing	Spring	6
<b>300-level</b>		
MARK333 Marketing Communications	Autumn	6
MARK343 International Marketing	Autumn	6

### Notes:

(a) Students undertaking the Bachelor of Communication and Media/ Bachelor of Commerce who are taking Marketing as their major in the Commerce component of the degree cannot take the Advertising and Marketing specialisation in the BCM component.

(b) \*Students undertaking the Bachelor of Communication and Media/ Bachelor of Commerce and who find that these subjects are prescribed in the core of their Commerce degree should consult the School of Management and Marketing for appropriate replacement subjects, and have these subjects approved by the Head of the School of Social Sciences, Media and communication in the Faculty of Arts.

## Journalism

The Journalism sequence is designed to develop basic journalism skills to complement the conceptual knowledge of media process in the BA Communication and Media Studies program. Instead of looking at journalism from three separate media - print, radio and television -- the sequence focuses on media convergence based on the practical foundation of generic print media techniques. Students take four core journalism subjects. The teaching approach focuses on learning by doing.

## Major Study

The Journalism major is made up of the 56 credit point core and all the following subjects:

Subjects All subjects are compulsory	Session	Credit Points
<b>200-level</b>		
JOUR201 Print Media Reporting	Autumn	8
JOUR202 Feature Writing	Spring	8
<b>300-level</b>		
JOUR301 Investigative Reporting	Autumn	8
JOUR302 Directed Study /Practice	Spring	8

## Media Technology Studies

The major in Media Technology Studies is currently under review and there will be no new intake in 2005. Students who have declared this major before the close of Spring Session 2004 will be able to complete it and should consult the Head of the School of Social Sciences, Media and Communication for advice on subject selection.

## Screen Studies

Students specialising in Screen Studies will gain experience in media content analysis, and will be introduced to the history of film and television production in Australia and the United States. In addition, they will become familiar with the key policy and theoretical issues raised by the globalisation of broadcast media. This specialisation will offer students a chance to develop advanced skills in research and critical analysis of the screen media.

## Major Study

The major in Screen Studies is made up of the 56 credit point core and the following subjects:

Subjects	Session	Credit Points
<b>Students must choose four of the following subjects:</b>		
<b>200-level</b>		
CCS217 Film Form and Style	Autumn	8
CCS219 Cinema in Australia	Spring	8
HIST291 Film and History	Spring	8
<b>300-level</b>		
CCS333 Genre: Theory and Analysis	n/o 2005	8
CCS337 Hollywood in Context	n/o 2005	8

CCS341	Media and Cultural Studies: Advanced Seminar (Note: this subject has a quota of 24)	Spring	8
CCS357	Television Cultures	n/o 2005	8
ENGL350	Fantasy and Popular Fiction	Autumn	8

### Assessment

Assessment in this course varies between subjects and programs, but typically includes a combination of essays, tutorial/seminar presentations and in-class tests and/or exams. Some subjects may have an additional practical component. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session.

## Double Degrees with Communication and Media Studies

The following double degree programs are available to suitably qualified students of the Faculty of Arts. The Faculty of Arts administers the Bachelor of Communication and Media Studies/Bachelor of Arts, the Bachelor of Communication and Media Studies/Bachelor of Commerce and the Bachelor of Communication and Media Studies/Bachelor of Science.

For information on the second degrees, students should consult the entries of the second faculty.

UAC Code	UOW Code	Home faculty	Course name
751350	794	Arts	Bachelor of Communication and Media Studies/Bachelor of Arts
751351	795	Arts	Bachelor of Communication and Media Studies/Bachelor of Commerce
751352	796	Creative Arts	Bachelor of Communication and Media Studies/Bachelor of Creative Arts
751210	760	Law	Bachelor of Communication and Media Studies/Bachelor of Laws
751353	797	Arts	Bachelor of Communication and Media Studies/Bachelor of Science

## Bachelor of Communication and Media Studies / Bachelor of Arts

Testamur Title:	Bachelor of Communication and Media Studies/Bachelor of Arts
Abbreviation:	BCM, BA
Home Faculty:	Faculty of Arts
Duration:	4.5 years full-time or part-time equivalent
Total Credit Points:	216
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn/Spring. (Students with Advanced Standing may begin in Summer Session if appropriate subjects are available).
Location:	Wollongong
UOW Course Code:	794
UAC Code:	751350
CRICOS Code:	049640G

### Overview

By combining the Bachelor of Communication and Media Studies with another degree, students will broaden their employment prospects into the growing areas of media and communication. In the BCM, students can take a major in journalism, advertising and marketing or screen and media studies and still take elective subjects in the other areas. The core of the BCM deals with contemporary issues in politics, communication studies and media, giving students a broad grounding in which to situate their major study. For the Arts degree, the BCM adds employment focus, with identifiable career options in journalism, advertising and marketing. The journalism major in the BCM combines well with the humanities areas in the Arts degree. It provides an avenue for Arts students to extend their writing skills in an area directly tied to an employment destination.

### Course Requirements

To qualify for the award of the Bachelor of Communication and Media Studies/Bachelor of Arts a candidate must:

- complete all the compulsory (core) subjects in the Bachelor of Communication and Media Studies and the required subjects of one of the major studies in that degree;
- complete one major study offered by a member unit of the Faculty of Arts (including Aboriginal Studies) or a major in Psychology or Population Health\*;
- complete not more than 90 credit points at 100-level;
- where necessary, undertake elective subjects from the Course Structures of the Bachelor of Arts, the Bachelor of Communication and Media Studies or the General Schedule to ensure that at least 216 credit points have been completed.

Please Note: Because of an overlap of core subjects, students in this degree cannot take Communication subjects as a major

in the Arts component of the double degree.

\* Students majoring in Psychology or Population Health in Arts double degree programs will complete the subjects prescribed for those majors in the course structures of Bachelor of Arts offered by the Faculty of Health and Behavioural Sciences (single degree course code 708).

## Assessment

Assessment in this course varies between subjects and programs, but typically includes a combination of essays, tutorial/seminar presentations and in-class tests and/or exams. Some subjects may have an additional practical component. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session.

## Major Study

**Students must take one major from each degree program.** If a student wishes to take more than one major from a degree program, s/he should see an academic adviser in the Faculty of Arts.

## Majors in the Bachelor of Communication and Media Studies available in 2005

For details of the major studies please refer to the Bachelor of Communication and Media Studies (single degree entry). Majors are available in: Advertising and Marketing, Journalism, and Screen Studies.

## Majors in the Bachelor of Arts

All Arts majors and their requirements are listed under the Bachelor of Arts entry.

Students enrolled in the double degree program should consult the academic adviser in the Faculty of Arts about their choice of major studies.

## Minor Study

Students may also take a minor study listed in the Course Structures of the Bachelor of Arts (Course code 702), with the exception of the minor in Communication Studies.

## Bachelor of Communication and Media Studies / Bachelor of Commerce

Testamur Title:	Bachelor of Communication and Media Studies/ Bachelor of Commerce
Abbreviation:	BCM, BCom
Home Faculty:	Faculty of Arts
Duration:	4.5 years full-time or part-time equivalent
Total Credit Points:	216
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn/Spring. (Students with Advanced Standing may begin in Summer Session if appropriate subjects are available).
Location:	Wollongong
UOW Course Code:	795
UAC Code:	751351
CRICOS Code:	TBA

## Overview

This double degree program enables students to combine a major study from the Bachelor Communication and Media Studies with the core subjects and a major study from the Bachelor of Commerce. Many students interested in communication studies actually want to work at management level in the business sector. The advertising and marketing major in the BCM will allow Commerce students a little more space to extend their business focus. The core subjects and the other majors in the degree (journalism and screen and media studies, for example) add employment options to the degree program.

## Course Requirements

To qualify for the award of the Bachelor of Communication and Media Studies/Bachelor of Commerce, a candidate must:

- complete all the compulsory (core) subjects in the Bachelor of Communication and Media Studies and the required subjects of one of the major studies in that degree;
- complete subjects from the Commerce Schedule, including core subjects, and subjects to satisfy the requirements of one of the Commerce majors;
- complete not more than 90 credit points at 100-level;



- where necessary, undertake elective subjects from the Course Structures of the Bachelor of Commerce, the Bachelor of Communication and Media Studies or the General Schedule to ensure that at least 216 credit points have been completed.

Note: Students undertaking this double degree program may *not* complete both the Marketing major in the Bachelor of Commerce and the Advertising and Marketing major in the Bachelor of Communication and Media Studies.

## Assessment

Assessment in this course varies between subjects and programs, but typically includes a combination of essays, tutorial/seminar presentations and in-class tests and/or exams. Some subjects may have an additional practical component. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session.

## Major Study

Students must take one major from each degree program.

### Majors in the Bachelor of Communication and Media Studies available in 2005

For details of the major studies please refer to the Bachelor of Communication and Media Studies (single degree entry). Majors are available in: Advertising and Marketing, Journalism, and Screen Studies.

### Majors in the Bachelor of Commerce available in 2005

The requirements for all Commerce majors are listed under the Bachelor of Commerce within the Faculty of Commerce.

Students enrolled in the double degree program should consult both faculties about their choice of major studies.

## Minor Study

Students may also take a minor study listed in the Course Structures of the Bachelor of Arts (Course code 702), with the exception of the minor in Communication Studies.

## Bachelor of Communication and Media Studies / Bachelor of Science

Testamur Title:	Bachelor of Communication and Media Studies/ Bachelor of Science
Abbreviation:	BCM, BSc
Home Faculty:	Faculty of Arts
Duration:	4.5 years full-time or part-time equivalent
Total Credit Points:	216
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn/Spring. (Students with Advanced Standing may begin in Summer Session if appropriate subjects are available).
Location:	Wollongong
UOW Course Code:	797
UAC Code:	751353
CRICOS Code:	049644D

## Overview

In Science where students take extensive studies in discipline areas, the BCM adds an opportunity to broaden the focus, to acquire skills outside the main areas of the degree and thereby increase its marketability. The core of the BCM deals with contemporary issues in politics, communication studies and media, giving students a broad grounding in which to situate their major study. The Media Technology Studies major complements the Science degree well, allowing students to examine the rise of the media industry and critique the controversies marking the growth of media technology.

## Course Requirements

To qualify for the award of the Bachelor of Communication and Media Studies/Bachelor of Science, a candidate must:

- complete all the compulsory (core) subjects in the Bachelor of Communication and Media Studies and the required subjects of one of the major studies in that degree;
- at least 90 credit points of subjects from the Course Structures of the Faculty of Science (including a minimum of 60 credit points) for a Science major;
- complete not more than 90 credit points at 100-level;
- where necessary, undertake elective subjects from the Course Structures of the Bachelor of Science, the Bachelor of

Communication and Media Studies or the General Schedule to ensure that at least 216 credit points have been completed

## Assessment

Assessment in this course varies between subjects and programs, but typically includes a combination of essays, tutorial/seminar presentations, practicals, labs in-class tests and/or exams. The assessment requirements of each subject are set out in the individual subject outlines which students receive in the first week of session.

## Major Study

Students must take one major from each degree program.

**Majors in the Bachelor of Communication and Media Studies available in 2005:** For details of the major studies please refer to the Bachelor of Communication and Media Studies (single degree entry). Majors are available in: Advertising and Marketing, Journalism and Screen Studies.

**Majors in the Bachelor of Science available in 2005:** The requirements for all Science majors are listed under the Bachelor of Science within the Faculty of Science or, for Population Health and Psychology, in the Bachelor of Science in the Faculty of Health and Behavioural Sciences.

Students enrolled in the double degree program should consult both faculties about their choice of major studies.

## Minor Study

Students may also take a minor study listed in the Course Structures of the Bachelor of Arts (Course code 702), with the exception of the minor in Communication Studies.

# Faculty of Commerce

## Member Units

School of Accounting and Finance  
School of Economics and Information Systems  
School of Management and Marketing  
Graduate School of Business and Professional Development

## Degrees Offered

### Single Degrees

Bachelor of Business Administration  
Dean's Scholars – Bachelor of Business Administration  
Bachelor of Business Administration (Hospitality)  
Bachelor of Commerce  
Dean's Scholars – Bachelor of Commerce  
Bachelor of Commerce (Honours)  
Bachelor of Mathematics and Finance  
Bachelor of Mathematics and Economics

### Double Degrees

Bachelor of Arts-Bachelor of Commerce  
Bachelor of Communication and Media Studies – Bachelor of Commerce  
Bachelor of Creative Arts - Bachelor of Commerce  
Bachelor of Engineering - Bachelor of Commerce  
Bachelor of Laws - Bachelor of Commerce  
Bachelor of Science (Faculty of Science) - Bachelor of Commerce  
Bachelor of Science (Faculty of Health and Behavioural Sciences) - Bachelor of Commerce  
Bachelor of Psychology - Bachelor of Commerce

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>  
International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

## Bachelor of Business Administration

Testamur Title of Degree:	Bachelor of Business Administration
Abbreviation:	BBA
Home Faculty:	Commerce
Duration:	3 years or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face to Face
Starting Session(s):	Autumn/Spring
Location/ UOW Course code /and UAC Code:	Wollongong/ 783/ 753602 Shoalhaven/ SH783/ 753603 Batemans Bay/ BB783/ 753604 Bega/ BE783/ 753605 Moss Vale/ MV783/ 753606 Loftus/ LO783/ 753607
CRICOS Code:	039557G

## Overview

A generalist degree designed to provide students with a broad educational base in business as preparation for a variety of positions in corporations, small businesses and the public sector. Students are exposed to a series of foundation subjects that provide a solid basis for developing a higher-level understanding of all the principal areas of business including: accountancy, finance, information systems, marketing and management. It is not suitable for students who wish to major in a specialised area of Commerce.

## Entry Requirements / Assumed Knowledge

**Assumed Knowledge:** Any two units of English. Entry is open to students who have gained a UAI or equivalent at a level determined by UOW for this calendar year. Entry for 2004 for the Wollongong campus was UAI 81.

Applications are also accepted from students who have successfully completed a recognised TAFE qualification or course of study from an accredited institution.

## Advanced Standing

The Faculty offers advanced standing (credit exemption) to students who have successfully completed relevant courses at accredited universities and colleges. Refer to: <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

1. A maximum of 72 credit points of 100-level subjects can be undertaken as part of the Bachelor of Business Administration Degree.
2. Students should note that a Pass Conceded, Pass Terminating or Pass Restricted grade at 300-level in any required subject within the program of study for the Bachelor of Business Administration does not satisfy degree requirements.

## Course Program

Number	Subject	Session	Credit
ACCY100	Accounting IA	Autumn	6
ACCY102	Accounting IB	Spring	6
BUSS110	Introduction to Business Information Systems	Autumn	6
COMM100	Employment Relations	Spring	6
COMM121	Quantitative Methods I	Spring	6
ECON101	Macroeconomic Essentials for Business	Autumn	6
ECON111	Introductory Microeconomics	Spring	6
LAW100	Law in Society	Autumn	6
MGMT110	Introduction to Management & Employment Relations	Autumn	6
MARK101	Marketing Principles	Spring	6
ACCY211	Management Accounting II	Autumn	6
FIN221	Business Finance I	Autumn	6
MARK217	Consumer Behaviour	Autumn	6
MARK270	Services Marketing	Spring	6
MARK344	Marketing Strategy	Spring	6
MGMT314	Strategic Management	Autumn/Spring	6

### Plus one of each of the following pairs of subjects

(Note that in some locations only one subject from each pair may be offered).

BUSS211	Requirements Determinations and Systems Analysis	Autumn	6
ECON230	Quantitative Analysis for Decision Making	Spring	6
FIN226	Financial Institutions	Spring	6
FIN227	Finance in Small Business	Spring	6
MGMT201	Organisational Behaviour	Autumn	6
MGMT206	Managing Human Resources	Spring	6

BUSS308	Computer Systems Management	Spring	6
ECON309	Environmental Economics	Autumn	6
MGMT348	Employers and Industrial Relations	NA 2005	
MGMT389	International Business Management	Autumn	6

Plus 18 credit points of electives of which only 12 credit points may be from 100-level subjects.

## Dean's Scholars - Bachelor of Business Administration

Testamur Title of Degree:	Dean's Scholars - Bachelor of Business Administration
Abbreviation:	BBADS
Home Faculty:	Commerce
Duration:	3 years or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Day/evening
Starting Session(s):	Autumn/Spring
Location:	Wollongong, Shoalhaven, Batemans Bay, Bega, Moss Vale, Loftus
UOW Course Code:	783A
UAC Code:	753920 Wollongong
CRICOS Code:	042546G

### Overview

This degree provides an enriched educational experience for high achieving students that will encourage them to continue their studies through to the completion of honours and research degrees. This course is available to a limited number of candidates. Dean's Scholars receive one to one academic mentoring and have special opportunities to attend workshops and seminars. The degree includes the awarding of a book allowance and access to work experience.

### Entry Requirements

Entry will be by application form and interview for candidates with a minimum UAI of 93 or equivalent. Current Commerce students can apply for a course transfer to this program after completion of a minimum of 48 credit points at the University of Wollongong.

### Course Requirements

Candidates for this degree will be required to maintain a Weighted Average Mark (WAM) of at least 75 each year to continue in the program.

### Course Program

Dean's Scholars will complete all requirements as listed for the Bachelor of Business Administration degree and may be permitted to take accelerated programs after their first session.

### Other Information

Additional information can be obtained by contacting [commerce@uow.edu.au](mailto:commerce@uow.edu.au).

## Bachelor of Business Administration (Hospitality)

Testamur Title of Degree:	Bachelor of Business Administration (Hospitality)
Abbreviation:	BBA (Hosp)
Home Faculty:	Commerce
Duration:	3 years or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Day/evening
Starting Session(s):	Autumn/Spring
Location/ UOW Course code /and UAC Code:	Wollongong/ 783H/ 753910 Shoalhaven/ SH783H/ 753911 Loftus/ LO783H/ 753912
CRICOS Code:	042546G

### Overview

The BBA (Hospitality) is delivered jointly by the University of Wollongong and the Institute of TAFE. Upon completion, students receive a BBA degree from the University of Wollongong and a Diploma in Hospitality from TAFE. The program offers broad and comprehensive preparation for students wishing to pursue a management career in the hospitality industry.

### Entry Requirements / Assumed Knowledge

Students need to be 18 years of age by 1 April in their first year of TAFE enrolment. Assumed knowledge is any two units of English. Entry is open to students who have gained a UAI or equivalent at a level determined by UOW for this calendar year. Entry for 2004 was UAI 81.

Applications are also accepted from students who have successfully completed a recognised TAFE qualification or course of study from an accredited institution.

### Advanced Standing

The Faculty offers advanced standing (credit exemption) to students who have successfully completed relevant courses at accredited universities and colleges. Refer to: <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

### Course Requirements

This course is offered in conjunction and concurrently with the TAFE Diploma in Hospitality Management. The Hospitality Management component will be delivered by TAFE and result in the award of a Diploma in Hospitality Management.

1. To qualify for the award of Bachelor of Business Administration (Hospitality) a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of subjects listed in the program of study.
2. A maximum of 72 credit points of 100-level subjects can be undertaken as part of the Bachelor of Business Administration (Hospitality) Degree.
3. Students should note that a Pass Conceded, Pass Terminating or Pass Restricted grade at 300-level in any required subject within the program of study for the Bachelor of Business Administration (Hospitality) does not satisfy the degree requirements.
4. Cross articulation may occur between the TAFE Diploma in Hospitality Management and the University of Wollongong Bachelor of Business Administration (Hospitality) provided these courses are completed concurrently.
5. Should the Diploma in Hospitality Management be completed prior to enrolling in the BBA the standard articulation agreement will apply.
6. All admission applications must be completed on an Undergraduate Course Application Form.

### Course Program

Number	Subject	Session	Credit Points
ACCY100	Accounting IA	Autumn	6
ACCY102	Accounting IB	Spring	6
COMM121	Quantitative Methods I	Spring	6
ECON101	Macroeconomic Essentials for Business	Autumn	6
ECON111	Introductory Microeconomics	Spring	6
ACCY211	Management Accounting II	Autumn	6
FIN221	Business Finance I	Autumn	6
MARK217	Consumer Behaviour	Autumn	6
MARK270	Services Marketing	Spring	6
MARK344	Marketing Strategy	Spring	6
MGMT314	Strategic Management	Autumn/Spring	6

#### Plus one of each of the following pairs of subjects

(Note that in some locations only one subject from each pair may be offered.)

BUSS211	Requirements Determinations and Systems Analysis	Autumn	6
ECON230	Quantitative Analysis for Decision Making	Spring	6
FIN226	Financial Institutions	Spring	6
FIN227	Finance in Small Business	Spring	6
BUSS308	Computer Systems Management	Spring	6
ECON309	Environmental Economics	Autumn	6
MGMT348	Employers and Industrial Relations	NA 2005	
MGMT389	International Business Management	Autumn	6

Plus those subjects for which credit is granted for the TAFE Diploma in Hospitality Management.

### Other Information

For additional information contact [commerce@uow.edu.au](mailto:commerce@uow.edu.au)

## Bachelor of Commerce

Testamur Title of Degree:	Bachelor of Commerce
Abbreviation:	BCom
Home Faculty:	Commerce
Duration:	3 years or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location/ UOW Course	Wollongong/ 710/ 753602
Code/and UAC Code:	Shoalhaven/ SH710/ 753603 Bateman's Bay/ BB710/ 753604 Bega/ BE710/ 753605 Moss Vale/ MV710/753606
CRICOS Code:	027464A

## Overview

This degree is designed for students who would like to major in one or more of the principle areas of business and commerce. It is a suitable preparation for students who would like to become professionals in a particular discipline or want to pursue a general career in business. The degree consists of two components a core and a major(s). The core includes an integrating subject that is designed to bring students studying different majors together to examine a contemporary topic. The aim is to provide a foundation for the understanding of the business and commercial environment.

## Entry Requirements / Assumed Knowledge

Assumed Knowledge – any two units of English.

Entry is open to students who have gained a UAI or equivalent at a level determined by UOW for this calendar year. Entry for 2004 was UAI 81. Applications are also accepted from students who have successfully completed a recognised TAFE qualification or course of study from an accredited institution.

## Advanced Standing

The Faculty offers advanced standing (credit exemption) to students who have successfully completed relevant courses at accredited universities and colleges. Refer to: <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

- (1) To qualify for award of the degree of Bachelor of Commerce a candidate shall accrue an aggregate of at least 144 credit points, including a major study, by satisfactory completion of subjects listed in the General Schedule.
- (2) Students must complete and pass all core subjects plus one of the approved BCom degree majors, double majors or a major and a minor and elective subjects.
- (3) A maximum of 72 credit points of 100-level subjects can be undertaken as part of the Bachelor of Commerce Degree.
- (4) Students should note that a Pass Conceded, Pass Terminating or Pass Restricted grade at 300-level in any required subject for the selected major area does not satisfy degree requirements. A student wishing to graduate with a double major must obtain clear passes in both majors at 300-level to satisfy requirements.
- (5) Each major in the BCom requires 48 credit points and each minor requires 24 credit points as specified in the relevant schedules. The following rules apply:
  - a. Students must complete at least one major but may complete two if they wish. A single subject may count towards two different majors. However, such double counting can apply to only one, 6 credit point subject. Thus completing a second major will require completion of an additional 42 to 48 specified credit points. Where two or more subjects are common to two majors, the relevant Head of School will designate a replacement subject(s).
  - b. Students may complete one or two of the designated minors but the completion of a minor is not a degree requirement. A minor cannot be completed in the same discipline as the major, for example an Accountancy Major with an Accountancy Minor. A single subject may not count towards a major and minor or towards two minors; double counting is not permitted when completing a minor. Thus completing each minor will require an additional 24 specified credit points. Where one (or more) subject(s) is common to a major and a minor or to two different minors, the relevant Head of School will designate a replacement subject(s).

## Commerce Core

Code	Subject	Session	Credit
ACCY100	Accounting IA	Autumn/Spring	6
ACCY102	Accounting IB	Spring	6
BUSS110	Introduction to Business Information Systems	Autumn/Spring	6
COMM121	Quantitative Methods I	Autumn/Spring	6
ECON101	Macroeconomic Essentials for Business	Autumn/Spring	6
ECON111	Introductory Microeconomics	Autumn/Spring	6

## Course Information

MARK101	Marketing Principles	Autumn/Spring	6
MGMT110	Introduction to Management & Employment Relations	Autumn/Spring	6

**Plus at least one Integrating subject selected from:**

Code	Subject	Session	Credit
COMM303	Development of Modern Business	Spring 2005	6
COMM351	Business Ethics and Governance	Spring 2005	6
COMM327	Business Innovation, Technology and Policy	Autumn/Spring	6
COMM328	Contemporary Issues in Commerce	NA 2005	6

**Total Credit Points in Core = 54**

Accountancy students may substitute STAT131 Understanding Variation and Uncertainty for COMM121 Quantitative Methods I. Note: entry to this subject depends on HSC or equivalent performance (see General Schedule, Faculty of Informatics, School of Mathematics and Applied Statistics, for details).

### Major Study Areas:

Students taking a major in a degree offered by a Faculty other than the Faculty of Commerce are not required to complete the core subjects in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the major. All students must satisfy subject prerequisites except where waivers have been granted.

### Accountancy

Whether they work in a large multinational corporation, a government agency or a small company, accountants play a pivotal role in advising senior management on the financial direction of the enterprise.

#### **Professional Recognition**

On completion of a Bachelor of Commerce (Accountancy) degree you will have gained the necessary skills and qualifications to work as an accountant. Careful selection of subjects will ensure you can join one of the major professional accounting bodies.

The accounting bodies have student associations which you can join while you are studying at the University of Wollongong.

The Australian professional organisations are:

- CPA Australia
- The Institute of Chartered Accountants in Australia

#### **Subjects required for major study**

Code	Subject	Session	Credit
ACCY200	Financial Accounting IIA	Autumn	6
ACCY201	Financial Accounting IIB	Spring	6
ACCY211	Management Accounting II	Autumn	6
FIN221	Business Finance I	Autumn	6
ACCY302	Financial Accounting III	Autumn	12
ACCY312	Management Accounting III	Spring	6
ACCY342	Auditing and Assurance Services	Spring	6

Additional specified subjects (30 credit points) required for professional accreditation; ACCY231, LAW100, LAW210, LAW302 and LAW315. The last four subjects constitute a minor in Business Law.

### Applied Finance (Planning)

Financial planners must have an understanding not only of finance but also of accounting, management and marketing. They need to be able to utilise information systems to track clients' portfolios and keep up-to-date on investment information. Financial advisors work independently and for large concerns. They may be employees or be self-employed. They provide counselling services to individuals or to corporations about how to best plan for future financial needs. This major builds the skill set needed for recognition by the Australian Securities and Investments Commission, allowing finance graduates who choose this major to work as financial dealers, for stock brokers, in banks, life insurance companies or credit unions, or as independent funds managers.

#### **Professional Recognition**

On completion of a Bachelor of Commerce (Applied Finance (Planning)), you will have gained the necessary skills and qualifications to work as a financial planner offering services to a broad clientele. This degree has been designed to meet the requirements of the Australian Securities and Investments Commission (ASIC) and is accredited with the Financial Planning Association (FPA) for entry into the FPA CFP Education program.

#### **Subjects required for major study**



Code	Subject	Session	Credit
ACCY228	Tax Planning	Spring	6
FIN221	Business Finance I	Autumn	6
FIN251	Introduction to Financial Planning	Autumn	6
FIN320	Risk and Insurance	Spring	6
FIN328	Retirement and Estate Planning	Spring	6
FIN329	Real Estate Planning	Autumn	6
FIN324	Financial Statement Analysis	Autumn	6
MGMT215	Small Business Management	Autumn	6

Additional specified subjects (30 credit points) required for professional accreditation: FIN223, FIN226, FIN323, LAW100 and LAW210.

### Other Information

Additional information is available from <http://www.uow.edu.au/> or email: [accfin@uow.edu.au](mailto:accfin@uow.edu.au)

### **Business Information Systems**

This course is designed for those who wish to enter a career as a professional systems analyst or as an information systems specialist in a business environment. Students who complete this major at the required standard may be accepted to proceed to the Bachelor of Commerce Honours year, which involves advanced study and a significant research report, or undertake the Master of Information Systems.

### Professional Recognition

Students require all subjects from both strands (72 credit points) for accreditation by the Australian Computer Society (ACS). The major study has accreditation with the Australian Computer Society and the joint specialisation with Accountancy has accreditation with the Australian Society of Certified Practising Accountants.

### Subjects required for major study

Code	Subject	Session	Credit
BUSS111	Business Programming I	Spring	6
BUSS212	Database Management Systems	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS318	Information Systems Project	Spring	6
<b>Plus 24 credit points selected from either Systems Analysis and Design Strand</b>			
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS218	Systems Design and Architecture	Spring	6
BUSS308	Computer Systems Management	Spring	6
BUSS316	Information Systems Prototyping	Autumn	6
<b>Or Information Systems Development Strand</b>			
BUSS214	Business Programming II	Autumn	6
BUSS215	Business Programming III	Spring	6
BUSS312	Distributed Information Systems	Autumn	6
BUSS317	Business Programming IV	Spring	6

\*Students require all subjects from both strands (72 credit points) for accreditation by the Australian Computer Society (ACS).

### **Business Law**

The Business Law major provides graduates with the skills and knowledge base that are critical to successfully understanding the context, application and impact of law on the structures and transactions of business. After completing the foundation law subjects, students are able to choose from a large range of specialist subjects. The Business Law major may be taken separately or in conjunction with any other major in the Commerce Schedule and complements other discipline studies, providing a legal framework perspective on the institutions and structures of those disciplines.

Students considering transferring to the double degree Bachelor of Commerce-Bachelor of Law should seek academic advice before enrolling in any subject in this major.

### Subjects required for major study

Code	Subject	Session	Credit
LAW100	Law in Society	Autumn	6
LAW210	Contract Law	Spring	6
<b>Plus 36 credit points selected from:</b>			
LAW302	Law of Business Organisations	Autumn	6
LAW315	Taxation Law	Spring	6
LAW316	Occupational Health and Safety Law	Autumn	6
LAW317	E-Commerce Law	Spring	6

## Course Information

LAW321	Banking Law	Spring	6
LAW330	Law of Employment	Autumn	6
LAW331	Intellectual Property Law	Autumn	6
LAW332	Labour Relations Law	Spring	6
LAW335	Anti-Discrimination Law	Spring	6
LAW348	Media Law*		
LAW352	Advanced Taxation Law*		
LAW360	Foreign Investment Law in the People's Republic of China*		

\* Not on offer in 2005

## Economics

Economics is the study of the economy at the micro and macro levels. Areas of interest to economists include the behaviour of consumers and business firms, the labour market, health care, the environment, technology and innovation, economic growth and development, monetary and fiscal policy, international trade and finance, and the global economy.

Students taking an Economics major will study the theory, policies, practices and institutions of national economies and the international economy. They will learn tools of analysis that can be applied to a wide range of economic issues.

### Subjects required for major study

Code	Subjects	Session	Credit
ECON205	Macroeconomic Theory and Policy	Autumn/Spring	6
ECON215	Microeconomic Theory and Policy	Autumn/Spring	6
ECON222	Quantitative Methods II	Autumn/Spring	6
ECON305	Economic Policy	Spring	6
ECON316	History of Economic Thought	Autumn	6
<b>Or</b>			
ECON304	The Historical Foundations of the Modern Australian Economy	Autumn	6

**Plus** 18 credit points, 12 of which must be from 300-level Economics subjects and the other 6 from 200- or 300-level Economics subjects.

## Finance

Finance is about money and investments. People on their own and in partnerships, companies and other entities, including state and federal governments, have a common objective of profitable investment. How do companies choose between possible investments, and how do they raise capital? How does hedging with options and futures reduce risk of an investment portfolio? What is the role of capital markets, and how do they value assets such as stocks, options and futures? These are the questions answered within the theory and practice of finance.

### Preparatory Studies

Accounting, Economics, Mathematics and Statistics are all important foundations for understanding the theory and applications of finance principles. However, behavioural studies are also important for an understanding of applied finance issues and decision-making.

### Subjects required for major study

Code	Subjects	Session	Credit
ACCY200	Financial Accounting IIA	Autumn	6
FIN221	Business Finance I	Autumn	6
FIN223	Investments I	Spring	6
FIN322	Business Finance II	Spring	6
FIN323	Investments II	Autumn	6
FIN324	Financial Statement Analysis	Autumn	6

**Plus at least one of the following:**

Code	Subjects	Session	Credit
FIN226	Financial Institutions	Spring	6
FIN227	Finance In Small Business	Spring	6

**Plus at least one of the following:**

Code	Subjects	Session	Credit
FIN325	Banking Practice	Autumn	6
FIN320	Risk and Insurance	Spring	6
FIN351	International Business Finance	Spring	6
FIN352	Critical Perspectives in Finance	Spring	6
ECON331	Financial Economics	Spring	6

## Human Resource Management

Increasingly, business firms and the public sector recognise that a major source of sustainable success is found in capable

and productive human resources. The human resource management (HRM) major focuses on the people side of organisations. It is relevant to students wishing to pursue a professional career in HRM as well as to those students who see people management as a necessary part of their future skills portfolio.

The major provides students with an understanding of human resource management theories, concepts and applications. This includes detailed study of theory and practices in key functional areas of HRM, including job analysis, recruitment and selection, training and development, change management and occupational health and safety management.

### Professional Recognition

The HRM major has accreditation from the Australian Human Resources Institute. Students are eligible for membership of the Institute.

### Subjects required for major study

Code	Subjects	Session	Credit
MGMT201	Organisational Behaviour	Autumn	6
MGMT205	Recruitment and Selection	Spring	6
MGMT206	Managing Human Resources	Autumn/Spring	6
MGMT220	Organisational Studies	Spring	6
MGMT311	Management of Change	Spring	6
MGMT314	Strategic Management	Autumn/Spring	6
MGMT321	Occupational Health & Safety Management	Spring	6
MGMT322	Training and Development	Autumn	6

### International Business

The International Business major gives you an awareness and understanding of business in other cultures and regions. It prepares you to respond to the intricacies of international business (including the impact of differing cultures and languages, issues posed by differing markets, and differing government regulations) within this rapidly growing environment.

You will gain an understanding of leadership, strategy, cultural diversity, communications and decision-making as they relate to contemporary international business issues, including financial management, employment relations, industry and trade in South-East Asia, international marketing and management, and business in Europe.

As the world is becoming 'smaller' with regards to advances in technology, employers are seeking graduates with international business skills.

### Subjects required for major study

Code	Subjects	Session	Credit
ECON216	International Trade Theory and Policy	Spring	6
ECON251	Industry and Trade in East Asia	Spring	6
FIN241	International Financial Management	Autumn	6
MGMT301	Managing Across Cultures	Autumn	6
MGMT314	Strategic Management	Autumn/Spring	6
MGMT341	International and Comparative Employment Relations	Spring	6
MARK343	International Marketing	Autumn	6
MGMT389	International Business Management	Autumn	6

### Logistics

Logistics is the concept of moving and handling goods and materials, from the beginning of production to the end of the sales process. It involves the management of activities including transport, storage, packaging, procurement, and inventory management.

The Logistics major combines many subject areas to develop a theoretical and practical understanding of the complexities of the activities of logistics. This major develops skills in strategic management, inventory planning, supply chain integration, transportation, distribution and warehousing.

Emphasis is placed on the ability to analyse budget aspects and the resources of logistics.

### Subjects required for major study

Code	Subjects	Session	Credit
ECON230	Quantitative Analysis for Decision Making	Spring	6

## Course Information

ECON332	Managerial Economics and Operations Research	Spring	6
MGMT200	Management and Electronic Business	Autumn	6
MGMT255	Inventory Management	Autumn	6
MGMT309	Supply Chain Management	Spring	6
MGMT316	Operations Management	Spring	6
MGMT328	Transport Logistics Management	Autumn	6
MGMT332	Enterprise and Innovation	Spring	6
Or			
MGMT314	Strategic Management	Autumn/Spring	6

## Management

Management is the art and science of planning, coordinating and leading group efforts. It is the mobilising of human and material resources to achieve organisational goals. Managerial skills include the ability to make sound judgements on all issues that arise at work and to achieve objectives through organisational skills.

The management major combines many subject areas to develop theoretical and practical understanding of the complexities of management. This major develops skills in decision-making, conflict resolution, administration and communication.

### Subjects required for major study

Code	Subjects	Session	Credit
MGMT102	Business Communications	Spring	6
MGMT201	Organisational Behaviour	Autumn	6
MGMT206	Managing Human Resources	Autumn/Spring	6
MGMT220	Organisational Studies	Spring	6
MGMT311	Management of Change	Spring	6
MGMT314	Strategic Management	Autumn/Spring	6
MGMT316	Operations Management	Spring	6
MGMT350	Quality Management	Spring	6

## Marketing

A marketing major provides the skills to generate products and services for which there is a defined customer need and to position the product or service in the market with effective promotion, pricing and distribution strategies.

The Marketing major is geared toward problem-solving and management decision-making. Emphasis is given to how to analyse, plan, organise, motivate and control the marketing process. Communication skills and creative thinking are essential to successful marketing.

This major has a variety of subjects covering a range of topics in marketing including consumer behaviour, services marketing, marketing research and international marketing. There is opportunity to join several business-related student groups on campus such as the Marketing Society.

### Professional Recognition

The Marketing major is accredited by the Australian Marketing Institute (AMI).

### Subjects required for major study

Code	Subjects	Session	Credit
MARK201	Applied Marketing Research A	Autumn	6
MARK202	Applied Marketing Research B	Spring	6
MARK217	Consumer Behaviour	Autumn	6
MARK270	Services Marketing	Spring	6
MARK301	Internet Applications for Marketing	Spring	6
MARK333	Marketing Communications	Autumn	6
MARK343	International Marketing	Autumn	6
MARK344	Marketing Strategy	Spring	6

### Minor Study Areas

Students taking a minor in a degree offered by a Faculty other than the Faculty of Commerce are not required to complete the core subjects in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the minor. All students must satisfy subject prerequisites except where waivers have been granted.

## Accountancy

24 credit points selected from 200 and 300 level ACCY subjects.

**Business Information Systems**

Code	Subjects	Session	Credit
BUSS111	Business Programming I	Spring	6
<b>Plus for the strand in Analysis and Design</b>			
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS218	Systems Design and Architecture	Spring	6
BUSS316	Information Systems Prototyping	Autumn	6
<b>OR for the strand in Data Management</b>			
BUSS212	Database Management Systems	Spring	6
BUSS308	Computer Systems Management	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
<b>OR for the strand in Systems Development</b>			
BUSS214	Business Programming II	Autumn	6
BUSS215	Business Programming III	Spring	6
BUSS317	Business Programming IV	Spring	6

**Business Law**

Code	Subjects	Session	Credit
LAW100	Law in Society	Autumn	6
LAW210	Contract Law	Spring	6
<b>Plus 12 credit points selected from:</b>			
LAW302	Law of Business Organisations	Autumn	6
LAW315	Taxation Law	Spring	6
LAW316	Occupational Health and Safety Law	Autumn	6
LAW317	E-Commerce Law	Spring	6
LAW321	Banking Law	Spring	6
LAW330	Law of Employment	Autumn	6
LAW331	Intellectual Property Law	Autumn	6
LAW332	Labour Relations Law	Spring	6
LAW335	Anti-Discrimination Law	Spring	6
LAW348	Media Law	Spring	6
LAW352	Advanced Taxation Law*	Autumn	6
LAW360	Foreign Investment Law in the People's Republic of China*		

\* Not on offer in 2005

**Economics**

Code	Subjects	Session	Credit
ECON205	Macroeconomic Theory and Policy	Autumn/Spring	6
<b>Or</b>			
ECON215	Microeconomic Theory and Policy	Autumn/Spring	6

Plus 18 credit points, 12cp of which must be from 300-level Economics subjects and the other 6cp from one 200- or 300-level Economics subject.

**Electronic Commerce**

24 credit points selected from:

Code	Subjects	Session	Credit
ECON319	Electronic Commerce and Economics of Business	Autumn	6
FIN353	Global Electronic Finance	Autumn	6
MARK301	Internet Applications for Marketing	Spring	6
MGMT200	Management and Electronic Business	Autumn	6
MGMT300	Innovation and E-commerce	Spring	6

**Finance**

Code	Subject	Session	Credit
FIN221	Business Finance I	Autumn	6

Plus 18 credit points selected from 200 & 300 level FIN subjects

**Human Resource Management**

24 credit points selected from:

Code	Subjects	Session	Credit
MGMT201	Organisational Behaviour	Autumn	6

## Course Information

MGMT205	Recruitment and Selection	Spring	6
MGMT206	Managing Human Resources	Autumn/Spring	6
MGMT220	Organisational Studies	Spring	6
MGMT311	Management of Change	Spring	6
MGMT314	Strategic Management	Autumn/Spring	6
MGMT321	Occupational Health & Safety Management	Spring	6
MGMT322	Training and Development	Autumn	6

## Industrial Relations

Code	Subjects	Session	Credit
COMM100	Employment Relations	Autumn	6
MGMT240	Industrial Relations B: Wage Determination	Spring	6
MGMT342	Special Topics: Industrial Relations	NA 2005	
MGMT352	Negotiation, Advocacy and Bargaining	Spring	6

## International Business

Code	Subjects	Session	Credit
ECON216	International Trade Theory and Policy	Spring	6
FIN241	International Financial Management	Autumn	6
MGMT341	International and Comparative Employment Relations	Spring	6
Or			
MARK343	International Marketing	Autumn	6
Plus			
MGMT389	International Business Management	Autumn	6

## Logistics

Code	Subjects	Session	Credit
MGMT255	Inventory Management	Autumn	6
MGMT309	Supply Chain Management	Spring	6
MGMT316	Operations Management	Spring	6
MGMT328	Transport Logistics Management	Autumn	6

## Management

Code	Subjects	Session	Credit
MGMT102	Business Communications	Spring	6

Plus 18 credit points selected from 200 and 300 level MGMT subjects

## Marketing

24 credit points from 200 and 300 level MARK subjects.

## Dean's Scholars - Bachelor of Commerce

Testamur Title of Degree:	Dean's Scholars - Bachelor of Commerce
Abbreviation:	BCOMDS
Home Faculty:	Commerce
Duration:	3 years or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Day/evening
Starting Session(s):	Autumn/Spring
Location:	Wollongong, Shoalhaven, Batemans Bay, Bega, Moss Vale
UOW Course Code:	710A
UAC Code:	735610 Wollongong
CRICOS Code:	042546G

## Overview

This degree provides an enriched educational experience for high achieving students that will encourage them to continue their studies through to the completion of honours and research degrees. This course is available to a limited number of candidates. Dean's Scholars receive one to one academic mentoring and have special opportunities to attend workshops and seminars. The degree includes the awarding of a book allowance, individualised mentoring and access to work experience relevant to their chosen careers.

## Entry Requirements

Entry will be by application form and interview for candidates with a minimum UAI of 93 or equivalent. Current Commerce students can apply for a course transfer to this program after completion of a minimum of 48 credit points at the University of Wollongong.

## Course Requirements

Candidates for this degree will be required to maintain a Weighted Average Mark (WAM) of at least 75 each year to continue in the program.

## Course Program

Dean's Scholars will complete all requirements as listed for the Bachelor of Commerce degree and may be permitted to take accelerated programs after their first session.

## Other Information

Additional information can be obtained by contacting [commerce@uow.edu.au](mailto:commerce@uow.edu.au).

## Bachelor of Commerce (Honours)

Testamur Title of Degree:	Bachelor of Commerce (Honours)
Abbreviation:	BCom (Honours)
Home Faculty:	Commerce
Duration:	1 year
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	711
CRICOS Code:	001710F

## Overview

An Honours degree is awarded for one additional year of study following the successful completion of a three-year degree with superior performance throughout the degree. To qualify for the award of Bachelor of Commerce (Honours) a candidate must satisfy Rules 103 (5), (6), (7), (8) & 118 of the Bachelor Degree Rules. The Head/s of the relevant discipline and the Head of School must approve admission to this degree.

## Bachelor of Commerce (Honours) is available in the following areas:

Accountancy  
Business Information Systems  
Econometrics  
Economics  
Employment Relations  
Finance  
Human Resource Management  
Industrial Relations  
International Business  
Management  
Marketing

*(Double majors are also permitted)*

COMM401	Honours Coursework - coursework component for a single major	24
COMM406	Honours Coursework Part time	122
COMM402	Honours Research - research component for a single major	122
COMM407	Honours Research Part time	122
COMM403	Joint Honours Coursework - coursework component for a double major	12
COMM408	Joint Honours Coursework Part time	
COMM404	Joint Honours Research - research component for a double major	24

COMM409	Joint Honours Research Part time	12
COMM405	Joint Honours - Commerce component of a double major when the second major is in another Faculty. Appropriate for double degrees.	
COMM410	Joint Honours Part time	

## **Bachelor of Mathematics and Finance, Bachelor of Mathematics and Economics**

*Refer to the Faculty of Informatics*

### **Double Degrees with Bachelor of Commerce**

Students may combine their Commerce studies with studies in a number of other Faculties and qualify for the award of two degrees. Double degrees aim to broaden a student's knowledge and skill base and improve career options in competitive, increasingly interactive fields. Students must seek advice and approval from both Faculties before enrolment.

For further information refer to the Policy Guidelines for Double Degrees at:  
[http://www.uow.edu.au/handbook/courserules/double\\_degree.html](http://www.uow.edu.au/handbook/courserules/double_degree.html).

Students must seek advice and approval from both Faculties before enrolment.

### **Course Requirements**

Candidates must satisfy the entry requirements of both the degree programs. Double degrees, where both degrees are normally of three years duration will be a minimum of 216 credit points and take a minimum of four years to complete. Double degrees, where one of the degrees is normally of four years duration will be a minimum of 264 credit points and take a minimum of five years to complete. Students may be given exemptions where equivalences exist between subjects.

For all double degrees, candidates are required to complete subjects from the Commerce Schedule, including core subjects and subjects to satisfy the requirements of one of the Commerce majors or a major/major, or major/minor combination. In addition to the Commerce requirements, candidates will need to complete one of the following:

#### **Bachelor of Arts - Bachelor of Commerce:**

Students must:

- i. complete at least 72 credit points, including a major study, for subjects listed in the Arts schedule, and including at least 36 credit points for subjects offered by member Units of the Faculty of Arts;
- ii. not more than 96 credit points for 100-level subjects may be undertaken for both degrees;
- iii. the Arts major study and the Commerce major are to be chosen from two different disciplines.

#### **Bachelor of Communication and Media Studies - Bachelor of Commerce**

Students must:

- i) complete all the compulsory (core) subjects in the Bachelor of Communication and Media Studies and the required subjects of one of the major studies in that degree;
- ii) complete subjects from the Commerce Schedule, including core subjects, and subjects to satisfy the requirements of one of the Commerce majors.
- iii) complete not more than 90 credit points at 100-level;
- iv) where necessary, undertake elective subjects from the Course Structures of the Bachelor of Commerce, the Bachelor of Communication and Media Studies, or the General Schedule to ensure that at least 216 credit points have been completed.

Note: Students undertaking this double degree program may not complete both the Marketing major in the Bachelor of Commerce and the Advertising and Marketing major in the Bachelor of Communication and Media Studies.

#### **Bachelor of Creative Arts - Bachelor of Commerce:**

Students must:

- i. complete a major study for the Bachelor of Creative Arts comprising 108 credit points of compulsory subjects as listed in the Creative Arts Schedule;
- ii. undertake, where necessary, elective subjects to ensure a total of 216 credit points have been completed.

#### **Bachelor of Engineering - Bachelor of Commerce:**



Students must complete a minimum of 264 credit points as follows:

- i. a total of at least 174 credit points of engineering subjects made up of the Engineering core or compulsory subjects and one of the engineering majors. The minimum of 174 credit points will be exceeded by some engineering program requirements;
- ii. where required, at least 12 weeks of approved professional engineering experience during the course. Exemptions may be given to part-time candidates who are in approved full-time engineering employment.

**Bachelor of Laws - Bachelor of Commerce:**

Students must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- a) all compulsory Law subjects;
- b) elective subjects to the value of 56 credit points from the LLB Schedule; to be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- c) subjects selected from the General Schedule, including the satisfactory completion of:
  - i) compulsory subjects;
  - ii) an approved Commerce major except for a Business Law major; and
  - iii) subjects with a value of at least 90 credit points, consisting of (i) and (ii) and excluding subjects listed in (a) and (b), except,
  - iv) where the subjects in (i) and (ii) have the prefix LAW, the equivalent LLB subjects must be substituted.

**Bachelor of Science (Faculty of Science) - Bachelor of Commerce:**

Students must complete 90 credit points of subjects from the Science Schedule, including a Science major study. Any extra credit points required to achieve a double degree total of 216 credit points, additional to the Commerce and Science Requirements specified above, may be selected from the Commerce, Science or General Schedule.

**Bachelor of Science (Faculty of Health and Behavioural Sciences) - Bachelor of Commerce:**

Students will be required to complete subjects from the Health and Behavioural Sciences Schedule approved by the Faculty of Health and Behavioural Sciences. Any additional subjects needed to complete a minimum of 216 credit points should be selected from the Health and Behavioural Sciences Schedule, the Commerce Schedule or the Science Schedule.

**Bachelor of Psychology - Bachelor of Commerce:**

Students must complete a total of 264 credit points. This double degree fulfils the requirements needed to become a registered psychologist.

For the Bachelor of Psychology, students will be required to complete:

- i. the 150 credit points of psychology subject requirements for the Bachelor of Psychology.
- ii. Any additional subjects needed to complete the required 264 credit points should be selected from either the Health and Behavioural Sciences Schedule or the Commerce Schedule.

# Faculty of Creative Arts

## Member Units

### School of Journalism and Creative Writing

Journalism  
Creative Writing

### School of Music and Drama

Performance (Music and Theatre)  
Sound - Composition and Production

### School of Art and Design

Visual Arts  
Graphic Design and New Media

## Degrees Offered

### Single Degrees

Bachelor of Creative Arts  
Bachelor of Creative Arts (Honours)

### Double Degrees

Bachelor of Creative Arts - Bachelor of Communication and Media Studies  
Bachelor of Creative Arts - Bachelor of Arts  
Bachelor of Creative Arts - Bachelor of Commerce  
Bachelor of Creative Arts - Bachelor of Science  
Bachelor of Creative Arts - Bachelor of Computer Science  
Bachelor of Creative Arts - Bachelor of Laws

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>  
International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/)

## Bachelor of Creative Arts

Testamur Title of Degree:	Bachelor of Creative Arts
Abbreviation:	BCA
Home Faculty:	Faculty of Creative Arts
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	840
UAC Codes:	Specified below for each major
CRICOS Code:	-

## Overview

The Bachelor of Creative Arts is a three-year full-time course made up of a combination of theory and practical work in a major study area.

## Entry Requirements

Applicants need to meet the artistic requirements determined by an interview or audition. Applicants must be prepared to demonstrate their ability (in both theory and artistic practice) to meet the criteria for a proposed major. No applications (whether made via the UAC or directly to UOW) will be considered unless the student has completed and submitted a Creative Arts application for Interview/ Audition by Friday 30 September, 2004. A late application fee of \$50 will apply for applications submitted after the closing date. Portfolio and/or audition requirements are specified below for each major.

International applications may be submitted anytime throughout the year, for commencement in the next academic year.

## Advanced Standing

Advanced standing arrangements for the Bachelor of Creative Arts are currently under review. Students seeking advanced standing are advised to contact the Faculty of Creative Arts office for further details.

## Course Requirements

The BCA degree requires 3 years of full-time study or part-time equivalent and the completion of subjects to the value of 144 credit points.

Students enrolling in the BCA are required to complete either:

1. a) 108 credit points of core subjects in the major (36 credit points each at 100, 200 and 300 level); and  
b) 36 credit points of elective subjects of which no more than 18 credit points may be taken at 100 level.  
OR
2. 144 credit points of core subjects in the Visual Arts and Graphic Design major.

A limited range of electives is offered by the Faculty of Creative Arts. However, students are encouraged to take advantage of the full range of subjects available within the University. The core subjects focus on practice in conjunction with a study in the history and theory of the discipline.

## Honours

A fourth year is available at Honours level for outstanding students.

## Major Study Areas

### Creative Writing

UAC Code: 754601

A major in Creative Writing offers both a practical and theoretical understanding of writing practice. In year one, following an introductory subject on writing fundamentals, students specialise in one or more of the following areas:

- poetry
- prose fiction, and
- scripting for either film, television or theatre.

In year two, additional subjects are offered in:

- arts journalism
- editing

- hypertexts
- writing for performance, and
- scripting/scoring sound texts.

Year three subjects are geared towards:

- refinement of writing technique, and
- aspects of style.

Third year subjects allow for the development of larger-scale writing projects. Throughout the degree, students are involved in the critical examination of poetics and writing theory. In general, class activities are based around a combination of lectures, intensive workshops, writing exercises, group discussions and individual student presentations. The degree regularly makes use of various artist and writer-in-residence schemes. Students are encouraged to participate in public readings and performance of their work, as well as the active pursuit of publication.

### Specific Entry Requirements

It is expected that applicants for a major study in Creative Writing will have developed a body of work in either prose fiction (short story or novel), poetry or some form of dramatic writing, and be able to demonstrate an ongoing and independent commitment to writing.

### Major Study Program

Code	Subject	Session	Credit Points
<b>100-Level</b>			
WRIT111	Writing Overview	Autumn	6
<i>And any 3 of the following</i>			
WRIT121	Writing for Stage and Screen	Autumn	6
WRIT122	Writing Prose Fiction 100	Spring	6
WRIT123	Poetry 100: Introduction to Writing Poetry	Spring	6
WRIT109	Writing Strategies for Theme and Structure	Autumn	6
<i>Plus 12 credit points of theory:</i>			
WRIT119	Theory for Practising Writers: Classicism to the Gothic	Autumn	6
WRIT129	Theory for Practising Writers	Spring	6
<b>200-Level - Any 4 of the following</b>			
WRIT210	Writing for the Internet	Autumn/Spring	6
WRIT211	Writing/Performing	Autumn	6
WRIT212	Writing Prose Fiction 200	Autumn	6
WRIT213	Poetry 200: Poetic Forms	Spring	6
WRIT214	Writing for Theatre 200	Autumn	6
WRIT215	Writing for Film and Television 200	Autumn	6
WRIT216	Editing Practice for Creative Writers	Spring	6
WRIT222	Writing Extended Prose Fiction	Spring	6
WRIT228	Writing for Sound 200	Autumn	6
<i>Plus 12 credit points of theory:</i>			
WRIT219	Writing theory: Modernism	Autumn	6
WRIT229	Writing Theory: Modernist Avant-Gardes	Spring	6
<b>300-Level - Any 4 of the following</b>			
WRIT312	Advanced Prose Fiction A	Autumn	6
WRIT313	Advanced Poetry A	Autumn/Spring	6
WRIT314	Writing for Theatre 300	Spring	6
WRIT315	Writing for Film and Television 300	Autumn	6
WRIT316	Editing 300	Autumn	6
WRIT317	Writing: The Author and the Media	Autumn	6
WRIT322	Advanced Prose Fiction B	Spring	6
WRIT323	Advanced Poetry B	Autumn/Spring	6
WRIT328	Writing for Sound 300 - Scoring and Production	Spring	6
<i>Plus 12 credit points of theory:</i>			
WRIT319	Writing theory: Structuralism to the Postmodern	Autumn	6
WRIT329	Contemporary Theory and the Practising Writer	Spring	6

### Electives

Single degree BCA students must also include 36 credit points of electives in their degree, of which no more than 18 credit points should be at 100 level. Electives may be selected from the general schedule and might include CREA102 and CREA202, JOUR201, JOUR202, JOUR301 and JOUR302.

### Performance (Music & Theatre)

UAC Code: 754603

The Performance major offers subjects progressively leading to a high level of achievement in on-stage performance. Students accepted into Performance are provided with studies in:

- vocal performance: singing and speech
- physical performance: movement and dance
- dramaturgy, history and theory

- text interpretation
- devised performance techniques through improvisation
- tuition in production skills for students showing aptitude in Performance Technology.

Classes addressing all aspects of performance will provide students with the opportunity to perform for their peers and to work with visiting professional artists in masterclass and workshop situations. There are many opportunities for performance within the Faculty and the University.

In first year the focus is on The Ensemble. Students undertake core technique subjects that provide a broad appreciation of performance history and culture. Interpretative skills are developed with reference to standard repertoire. Improvisation techniques are also developed to allow students to devise/perform material. Students also develop an integrated appreciation of theatrical values and acquire literacy in skills that will encompass all aspects of production. The second year focuses on on-stage interaction and students continue technique classes and perform in limited-access performances. (Black Box projects are based on script work, music projects or devised workshops). Students are encouraged to engage in key creative production roles for third year performances. Third year studies include Individualism in Performance. Students continue technique classes and perform to a wider audience at one of the theatres on campus or at performance venues off campus.

### Specific Entry Requirements

For audition, applicants will be asked to learn and prepare: one monologue or a scene from materials supplied. This information will be sent to short-listed applicants by the first week in November. Applicants will be asked to present one song of their choice that best displays vocal range and ability. At the auditions, applicants will be assessed on their movement and improvisation skills.

### Major Study Program

Subjects		Session	Credit Points
<b>100-Level</b>			
PERF102	Studio Practice A	Autumn	6
PERF103	Studio Practice B	Spring	6
PERF120	Performance Skills A	Autumn	6
PERF121	Performance Skills B	Spring	6
<i>Plus 12 credit points of theory:</i>			
PERF116	Dramaturgy A	Autumn	6
PERF117	Dramaturgy B	Spring	6
<b>200-Level</b>			
PERF202	Studio Practice C	Autumn	6
PERF203	Studio Practice D	Spring	6
PERF220	Performance Skills C	Autumn	6
PERF221	Performance Skills D	Spring	6
<i>Plus 12 credit points of Theory</i>			
PERF216	Dramaturgy C	Autumn	6
PERF217	Dramaturgy D	Spring	6
<b>300-Level</b>			
PERF302	Studio Practice E	Autumn	6
PERF303	Studio Practice F	Spring	6
PERF320	Performance Skills E	Autumn	6
PERF321	Performance Skills F	Spring	6
<i>Plus 12 credit points of Theory</i>			
PERF316	Dramaturgy E	Autumn	6
PERF317	Dramaturgy F	Spring	6

### Electives

Single degree BCA students must also include 36 credit points of electives in their degree, of which no more than 18 credit points should be at 100 level. Electives may be selected from the general schedule and might include CREA102 and CREA202.

### Sound - Composition & Production

UAC Code: 75406

This major explores the creation and manipulation of sound, in particular through the use of digital technologies. It will be suitable for students from a traditional music background as well as those who have developed an interest in sound design and music composition through computer-based technologies. The design of sound for multi-media applications will form a significant component of the major.

Students' creativity will be extended through studies in:

- theory of sound (acoustics)
- composition (electronic media/ improvisational and traditional)
- computer music applications
- critical listening skills

Classes addressing all aspects of sound studies will give students the opportunity to interact with their peers and with visiting professional sound artists.

### Specific Entry Requirements

Applicants need to present original examples of their work (scores and recordings).

### Major Study Program

Subjects		Session	Credit Points
<b>100-Level</b>			
SCMP101	Investigations in Sound 1	Autumn	6
SCMP102	Investigations in Sound 2	Spring	6
SCMP121	Sound Studies 1	Autumn	6
SCMP122	Sound Studies 2	Spring	6
<i>Plus 12 credit points of Theory</i>			
SCMP111	Issues in Sound 1	Autumn	6
SCMP112	Issues in Sound 2	Spring	6
<b>200-Level</b>			
SCMP201	Investigations in Sound 3	Autumn	6
SCMP202	Investigations in Sound 4	Spring	6
SCMP221	Sound Studies 3	Autumn	6
SCMP222	Sound Studies 4	Spring	6
<i>Plus 12 credit points of Theory</i>			
SCMP211	Issues in Sound 3	Autumn	6
SCMP212	Issues in Sound 4	Spring	6
<b>300-Level</b>			
SCMP301	Investigations in Sound 5	Autumn	6
SCMP302	Investigations in Sound 6	Spring	6
SCMP321	Sound Studies 5	Autumn	6
SCMP322	Sound Studies 6	Spring	6
<i>Plus 12 credit points of Theory</i>			
SCMP311	Issues in Sound n 5	Autumn	6
SCMP312	Issues in Sound 6	Spring	6

### Electives

Single degree BCA students must also include 36 credit points of electives in their degree, of which no more than 18 credit points should be at 100 level. Electives may be selected from the general schedule and might include CREA102 and CREA202.

### Visual Arts

*UAC Code: 754605*

This major is based on studio practice and related theory and history studies. The studio processes cover textiles, painting and sculpture with support studies in curatorial practice, photography, video, printmaking, installation and digital image making. Student work is shown throughout the year in one of the gallery spaces in the Faculty.

In first year, studio subjects introduce students to a range of media and processes. Studio skills are taught and a critical approach to their use is fostered in weekly seminars, which study the histories of each art and craft discipline. In second year, studio subjects build on these basic techniques and skills. Increased emphasis is placed on the students' ability to achieve independence in ideas, technical skills and work practices. Students are encouraged to contextualise their artwork in contemporary practice by developing research processes, attending exhibitions and participating in the wider artistic community. In third year studio subjects, students are expected to explore and develop personal themes and ideas to a greater depth. Professional practice as a visual artist is introduced. This includes skills in visual presentation appropriate to the medium, gallery practice and compiling a professional portfolio. The focus is on the completion of a body of work for exhibition in the final year graduating exhibition.

In first year students are given a foundation in Introduction to Theories of Visual Culture and Perspectives on Modernism as a background to their second year of study in Early Visual Arts and Design in Australia and The Artist in Contemporary Culture. By third year, the focus turns to Australian Indigenous Art and Visual Culture and Representation and Space in the Post Colonial World.

### Specific Entry Requirements

Applicants are asked to submit a set of photographs of six or more of their most recent artworks. If selected for an interview, applicants must bring a full portfolio of their work - original work is required.

### Major Study Program

Subjects		Session	Credit Points
<b>100-Level</b>			
VISA101	Visual Investigations A	Autumn	6
VISA102	Visual Investigations B	Spring	6

## Course Information

VISA103	Introduction to Visual Arts Studio A	Autumn	6
VISA104	Introduction to Visual Arts Studio B	Spring	6
<i>Plus 12 credit points of Theory</i>			
VISA121	Introduction to Theories of Visual Culture	Autumn	6
VISA122	Perspectives on Modernism	Autumn	6
<b>200-Level</b>			
VISA201	Visual Investigations C	Autumn	6
VISA202	Visual Investigations D	Spring	6
VISA203	Visual Arts Studio C	Autumn	6
VISA204	Visual Arts Studio D	Spring	6
<i>Plus 12 credit points of Theory</i>			
VISA221	Early Visual Arts and Design in Australia	Autumn	6
VISA222	The Artist in Contemporary Culture	Spring	6
<b>300-Level</b>			
VISA301	Visual Investigations E	Autumn	6
VISA302	Visual Investigations F	Spring	6
VISA303	Advanced Visual Arts Studio E	Autumn	6
VISA304	Advanced Visual Arts Studio F	Spring	6
<i>Plus 12 credit points of Theory</i>			
VISA321	Introduction to Indigenous Art and Visual Culture	Autumn	6
VISA322	Representation and Space in the Post Colonial World	Spring	6

## Electives

Single degree BCA students must also include 36 credit points of electives in their degree, of which no more than 18 credit points should be at 100 level. Electives may be selected from the general schedule and might include CREA102, CREA202 and VISA350.

## Graphic Design & New Media

UAC Code: 754602

This major combines Visual Arts and design theory with laboratory production components. Students are introduced to a range of graphic and digital imaging techniques and practices across a number of conceptual and industry contexts including graphic design, web and interactive multimedia design. The major encourages an interdisciplinary approach to the study and practice of creative print and screen-based design. Student work is shown throughout the year in one of five gallery spaces in the Faculty.

The first year of the course covers both an introduction to graphic design and to theories of visual and graphic arts. Students are encouraged to carry out research on historical and contemporary designers and cultural trends, and then experiment with a range of production techniques, computer software and hardware skills and creative solutions. Students gain a solid grounding in visual art methods of drawing and constructing images, both analogue and digital. Throughout the second year, specific subjects in typography, campaign graphics and editorial design, web design and design theory are introduced to the course. Students will be more independent in their motivations and research focus. Increasingly, student projects are concerned with real clients and job briefs. Theory and production subjects run in parallel throughout the year. In year three, advanced design theory and production subjects introduce the student to professional practice methods and techniques. The emphasis is on developing a range of critical and practical skills in the rapidly expanding fields of graphic and digital design. Interactive multimedia and new media theory form a focus for end of degree students. Major projects are developed for real clients. An end of year exhibition of final session work is held in one or more of the Faculty galleries. An on-line gallery is also available for students to show their work.

## Specific Entry Requirements

Applicants are asked to submit a set of six photographs or prints that show examples of approaches to at least three of the following design categories: web page design, interactive multimedia, poster design (photo or paper collage is acceptable), book/music CD cover design (pencil, water colour or gouache paint is acceptable), logo design (pen and ink or rubdown lettering is acceptable), T-shirt design using screen print, advertising design using photography or editorial illustration (hand or digital). If selected for an interview, applicants must bring a full portfolio of their work – original work is required.

## Major Study Program

Subjects		Session	Credit Points
<b>100-Level</b>			
DESN101	Introduction to Graphic Design	Autumn	6
DESN102	Design for Visual Communications	Spring	6
VISA101	Visual Investigations A	Autumn	6
VISA102	Visual Investigations B	Spring	6
<i>Plus 12 credit points of theory:</i>			
VISA121	Introduction to Theories of Visual Culture	Autumn	6
VISA122	Perspectives on Modernism	Spring	6
<b>200-Level</b>			
DESN201	Typography, Text and Illustration	Autumn	6
DESN202	Campaign Graphics and Editorial Design	Spring	6
DESN211	Introduction to Web Design	Autumn	6

DESN212	Advanced Web design	Spring	6
<i>Plus 12 credit points of Theory</i>			
VISA221	Early Visual Arts and Design in Australia	Autumn	6
DESN222	Design Theory	Spring	6
<b>300-Level</b>			
DESN301	Commercial Graphic Design Practice A	Autumn	6
DESN302	Commercial Graphic Design Practice B	Spring	6
DESN311	Interactive Multimedia Design	Autumn	6
DESN312	Advanced Design Project	Spring	6
<i>Plus 12 credit points of Theory</i>			
DESN321	New Media Theory	Autumn	6
DESN322	Advanced Design Project	Spring	6

### Electives

Single degree BCA students must also include 36 credit points of electives in their degree, of which no more than 18 credit points should be at 100 level. Electives may be selected from the general schedule and might include CREA102 and CREA202.

## Visual Arts & Graphic Design

*UAC Code: 754607*

This major is designed for those who have strong interests in both visual arts practice and in aspects of graphic design. It allows visual artists who wish to broaden their career options, to develop skills that have commercial application. The graphic design emphasis in this major is towards design for print media, using both manual and digital technologies. Studio subjects are supported by design theory and visual arts theory subjects.

### Specific Entry Requirements

Refer to the specific entry requirements for Visual Arts and also for Graphic Design and New Media.

### Major Study Program

Subjects		Session	Credit Points
<b>100-Level</b>			
VISA101	Visual Investigations A	Autumn	6
VISA103	Introduction to Visual Arts Studio A	Autumn	6
DESN101	Introduction to Graphic Design	Autumn	6
VISA102	Visual Investigations B	Spring	6
VISA104	Introduction to Visual Arts Studio B	Spring	6
DESN102	Design for Visual Communication	Spring	6
<i>Plus 12 credit points of theory:</i>			
VISA121	Introduction to Theories of Visual Culture	Autumn	6
VISA122	Perspectives on Modernism	Spring	6
<b>200-Level</b>			
DESN201	Typography, Text and Illustration	Autumn	6
VISA221	Early Visual Arts and Design in Australia	Autumn	6
VISA201	Visual Investigations C	Autumn	6
VISA203	Visual Arts Studio C	Autumn	6
DESN202	Campaign Graphics and Editorial Design	Spring	6
DESN222	Design Theory	Spring	6
VISA222	The Artist in Contemporary Culture	Spring	6
And			
VISA202	Visual Investigations D	Spring	6
Or			
VISA204	Visual Arts Studio D	Spring	6
<b>300-Level</b>			
DESN301	Commercial Graphic Design Practice A	Autumn	6
VISA321	Introduction to Indigenous Art and Visual Culture	Autumn	6
VISA301	Visual Investigations E	Autumn	6
VISA303	Advanced Visual Arts Studio E	Autumn	6
DESN302	Commercial Graphic Design Practice B	Spring	6
VISA322	Representation and Space in the Post Colonial World	Spring	6
DESN322	Advanced Graphic Design Theory	Spring	6
And			
VISA302	Visual Investigations F	Spring	6
Or			
VISA304	Advanced Visual Arts Studio F	Spring	6

## Bachelor of Creative Arts (Honours)

Testamur Title of Degree:	Bachelor of Creative Arts (Honours)
Abbreviation:	BCA(Hons)
Home Faculty:	Creative Arts
Duration:	1 year
Total Credit Points:	48
Delivery Mode:	Mostly face to face



Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	843
CRICOS Code:	006983G

## Overview

Students who have fulfilled the requirements of a Bachelor of Creative Arts and achieved a distinction average may undertake an Honours degree in their major area of study.

The Honours program is an end-on degree in Creative Arts and provides an opportunity for candidates to develop, to a sophisticated level, established theoretical and practical skills gained during their undergraduate course. In the BCA (Hons) course, the student is given close supervision of both a research topic and a creative presentation. In addition, a weekly research methodology seminar in Autumn Session provides training in advanced research skills specific to disciplines with the creative arts. The course thus provides a pathway to higher research degrees at masters and doctoral levels.

## Entry Requirements

Students may apply to enrol in an Honours degree after the requirements of the pass degree have been fulfilled at the prescribed academic standard usually a distinction average in practical and theory subjects is required. Admission to Honours is by recommendation of the relevant head of the discipline and approval by the Dean or Associate Dean of the Faculty, and acceptance by an academic supervisor in the discipline.

Students proceeding directly from a 3-year degree to Honours do not graduate until after they have completed Honours. However, it is possible to graduate with a Pass Degree and then decide to undertake Honours at a later date, either at this University or at another University. Graduates from other Universities may also apply to undertake Honours at the University of Wollongong.

## Course Program

Subjects		Session	Credit Points
CREA401	Minor Thesis in Creative Arts	Annual	24
CREA402	Creative Arts Presentation	Annual	24

## Bachelor of Communication and Media Studies / Bachelor of Creative Arts

Testamur Title:	Bachelor of Communication and Media Studies, Bachelor of Creative Arts
Abbreviation:	BCM-BCA
Home Faculty:	Faculty of Creative Arts
Duration:	4.5 years full-time of part-time equivalent
Total Credit Points:	216
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn/Spring. (Students with Advanced Standing may begin in Summer Session if appropriate subjects are available).
Location:	Wollongong
UOW Course Code:	796
CRICOS Code:	049642F

## Overview

In Creative Arts students take extensive studies in a discipline area. The BCM adds an opportunity to broaden the focus, to acquire skills outside the main areas of the degree and thereby increase its marketability. The core of the BCM deals with contemporary issues in politics, communication studies and media, giving students a broad grounding in which to situate their major study.

## Course Requirements

To qualify for the award of the Bachelor of Communication and Media Studies- Bachelor of Creative Arts, a candidate must:

- complete a major in the BCA comprising 108 credit points of core subjects;
- complete all the compulsory (core) subjects in the Bachelor of Communication and Media Studies and the required subjects of one of the major studies in that degree;
- complete at least 90 credit points of subjects from the Course Structures of the Faculty of Creative Arts (including a minimum of 60 credit points) for a Creative Arts major;
- complete not more than 90 credit points at 100-level;
- where necessary, undertake elective subjects from the Course Structures of the Bachelor of Creative Arts, the Bachelor of Communication and Media Studies or the General Schedule to ensure that at least 216 credit points have been completed.

## Major Study

Students must take one major from each degree program.

### Majors in the Bachelor of Communication and Media Studies

For details of the major studies, refer to the Bachelor of Communication and Media Studies (single degree entry) in the Arts section of the Handbook.

Advertising and Marketing  
Journalism  
Media Technology Studies  
Screen Studies

### Majors in the Bachelor of Creative Arts

For details of the major studies, refer to the Bachelor of Creative Arts single degree entry.

Students enrolled in the double degree program should consult both faculties about their choice of major studies.

## Honours

A Bachelor of Creative Arts (Honours) degree requires additional study and may be undertaken by students who meet the requirements for enrolment in Honours. Students should consult the single degree Bachelor of Creative Arts entry for Honours requirements.

A Bachelor of Communication and Media Studies (Honours) degree will be proposed by the Faculty of Arts in 2004 to begin in 2005.

## Other Information

For further information see Policy Guidelines for Double Degrees at:  
[www.uow.edu.au/handbook/courserules/double\\_degree.html](http://www.uow.edu.au/handbook/courserules/double_degree.html)

## Bachelor of Creative Arts / Bachelor of Arts

Testamur Title of Degree:	Bachelor of Creative Arts, Bachelor of Arts
Abbreviation:	BCA-BA
Home Faculty:	Creative Arts
Duration:	At least 4 years
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	720
UAC Code:	751501
CRICOS Code:	028395A

## Overview

This double degree enables students to undertake comprehensive majors in both Creative Arts and Arts.

## Entry Requirements

See requirements for separate degrees. Students are required to complete:

1. a major in the BCA comprising 108 credit points of core subjects.
2. the subjects prescribed for one of the majors in the BA degree (this will include one major study taught by a member unit of the Faculty of Arts (including Aboriginal Studies) or a major in Psychology or Population Health); and
3. sufficient elective credit points to ensure a total of 216 credit points is completed.

## Honours

Students who complete the double degree to the required academic standard in the relevant major are eligible for either BCA (Honours) or BA (Honours).

## Other Information

For further information see Policy Guidelines for Double Degrees at:  
[www.uow.edu.au/handbook/courserules/double\\_degree.html](http://www.uow.edu.au/handbook/courserules/double_degree.html)

## Bachelor of Creative Arts / Bachelor of Commerce

Testamur Title of Degree:	Bachelor of Creative Arts/ Bachelor of Commerce
Abbreviation:	BCA, BCom
Home Faculty:	Creative Arts
Duration:	At least 4 years
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	709
UAC Code:	751502
CRICOS Code:	028396M

### Overview

This double degree enables students to undertake comprehensive majors in both Creative Arts and Commerce.

### Entry Requirements

See requirements for separate degrees.

### Course Requirements

Students must consult both the Faculty of Creative Arts and the Faculty of Commerce academic advisers about selecting appropriate subjects.

Students are required to complete:

1. a major in the BCA comprising 108 credit points of core subjects;
2. a major sequence in the other Faculty as prescribed by that Faculty; and
3. sufficient elective credit points to ensure a total of 216 credit points is completed.

### Honours

Students who complete the double degree with the required academic standard in the relevant major are eligible for either BCA (Honours) or BCom (Honours).

## Bachelor of Creative Arts / Bachelor of Science

Testamur Title of Degree:	Bachelor of Creative Arts, Bachelor of Science
Abbreviation:	BCA-BSc
Home Faculty:	Creative Arts
Duration:	At least 4 years
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	845
UAC Code:	751504
CRICOS Code:	031167J

### Overview

This double degree enables students to undertake comprehensive majors in both Creative Arts and Science.

### Entry Requirements

See requirements for separate degrees.

### Course Requirements

Students must consult both the Faculty of Creative Arts and the Faculty of Science academic advisers about selecting appropriate subjects.

Students are required to complete:

1. a major in the BCA comprising 108 credit points of core subjects;
2. a major sequence in the other Faculty as prescribed by that Faculty; and

3. sufficient elective credit points to ensure a total of 216 credit points is completed.

### Honours

Students who complete the double degree with the required academic standard in the relevant major are eligible for either BCA (Honours) or BSc (Honours).

## Bachelor of Creative Arts / Bachelor of Computer Science

Testamur Title of Degree:	Bachelor of Creative Arts, Bachelor of Computer Science
Abbreviation:	BCA-BCompSc
Home Faculty:	Creative Arts
Duration:	At least 4 years
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	844
UAC Code:	751503
CRICOS Code:	031166K

### Overview

This double degree enables students to undertake comprehensive majors in both Creative Arts and Computer Science.

### Entry Requirements

See requirements for separate degrees.

### Course Requirements

Students must consult both the Faculty of Creative Arts and the Faculty of Informatics academic advisers about selecting appropriate subjects.

Students are required to complete:

1. a major in the BCA comprising 108 credit points of core subjects;
2. a major sequence in the other faculty as prescribed by that Faculty; and
3. sufficient elective credit points to ensure a total of 216 credit points is completed.

### Honours

Students who complete the double degree with the required academic standard in the relevant major are eligible for either BCA (Honours) or BCompSc (Honours).

## Bachelor of Creative Arts / Bachelor of Laws

Refer to Faculty of Law section of Handbook.

# Faculty of Education

## Degrees Offered

Bachelor of Teaching (Early Childhood Education)  
Bachelor of Education (Early Childhood Education)  
Bachelor of Education in Early Childhood Education (Honours)  
Bachelor of Teaching (Primary Education)  
Bachelor of Education (Primary Education)  
Bachelor of Education in Primary Education (Honours)  
Bachelor of Education (Physical and Health Education)  
Bachelor of Education in Physical and Health Education (Honours)  
Bachelor of Mathematics Education  
Bachelor of Science Education

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>  
International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

## Bachelor of Teaching (Early Childhood Education)

Testamur Title of Degree:	Bachelor of Teaching (Early Childhood Education)
Abbreviation:	BTeach (Early Child)
Home Faculty:	Education
Duration:	3 years full time or part time equivalent
Total Credit Points:	144
Delivery Mode:	Face to face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	881
UAC Code:	755111
CRICOS Code:	012100G

### Overview

The Bachelor of Teaching in Early Childhood Education program focuses upon developing early childhood teachers as critically reflective teachers and managers who can work with children across the age range 0-8 years in a variety of early childhood settings. Course content covers: Foundations of Education (psychology, history sociology, and philosophy of early childhood education); Curriculum Studies (e.g. Mathematics, Science, Language, Creative Arts, in early childhood education); Managing Early Childhood Learning Environments; and Child Development and Care. Fieldwork is an ongoing component throughout the course, and students are expected to conduct independent and collaborative inquiry in the field as part of their learning and assessment tasks.

Approaches to course delivery emphasise students' autonomy and critical reflection in their learning. Students are involved in problem-solving; field and library research, which is conducted in teams, following input provided by lecturing staff. Teamwork is also used to promote students' interpersonal skills, which is identified as a requirement for early childhood practitioners. A three-stage framework that provides scaffolding which is systematically reduced over the three years of the course, further aims to develop skills in self-directing team work.

Appropriate arrangements are made to cater for the needs of students not proceeding through the program at the normal rate, as defined in the schedule below.

### Advanced Standing

Academic credit of 48 credit points is awarded to students who have completed a TAFE Diploma in Children's Services, or Associate Diploma in Social Science (Child Studies) or equivalent.

### Entry Requirements / Assumed Knowledge

The New South Wales Department of Education and Training requires graduates seeking employment with the Department to have completed any two units of English, or equivalent subjects, and any two units of mathematics as part of their HSC or university studies, to gain registration as a teacher.

### Course Requirements

#### *Practical Teaching Experience*

Students enrolled in the Bachelor of Teaching (Early Childhood Education) are required to undertake a practical teaching experience. Practical teaching experiences include 5-8 year-olds in K-2 classrooms; 3-5 year-olds in preschool and birth -5 year olds in long day care settings; plus a six-week extended teaching practicum selected from these three options. Practical teaching experiences usually occur in Illawarra, Shoalhaven, Southern Highlands and Southern Sydney. Opportunities to undertake a practical teaching experience in countries such as China, Fiji, Malaysia and Thailand, or in mobile units or Western NSW areas may also be available.

#### *Prohibited Persons Legislation*

Teacher education students must complete a "Prohibited Employment Declaration" before undertaking practical teaching experience as required by the Child Protection (Prohibited Employment) Act 1998.

### Course Program

Subjects		Session	Credit Points
<b>Year 1 - Autumn</b>			
EDUF111	Education I	Autumn	6
EDUL101	Language and Literacy Education I	Autumn	6
EDUS122	Mathematics Education in Early Childhood	Autumn	6
EDUT121	Curriculum and Pedagogy I Early Childhood	Autumn	6
<b>Year 1 - Spring</b>			
EDIT102	Information Technology for Learning	Spring	6
EDUA111	Creative and Expressive Arts in Early Childhood Education	Spring	6
EDUF104	Early Childhood Learning Environment I	Spring	6

EDUF106	Child Development and Care I	Spring	6
<b>Year 2 - Autumn</b>			
EDUF201	Early Childhood Learning Environment II	Autumn	6
EDUF232	Early Intervention and Children with Special Needs	Autumn	6
EDUS203	Human Society and Its Environment	Autumn	6
EDUS213	Science Education in Early Childhood	Autumn	6
<b>Year 2 - Spring</b>			
EDUF204	Learners with Exceptional Needs	Spring	6
EDUF212	Education II	Spring	6
EDUF252	Child Development and Care II	Spring	6
EDUP201	Personal Development Health and Physical Education	Spring	6
<b>Year 3 - Autumn</b>			
EDUF303	Early Childhood Learning Environment III	Autumn	6
EDUF313	Historical and Philosophical Perspectives of Early Childhood	Autumn	6
EDUF353	Management of Early Childhood Services	Autumn	6
EDUL301	Language and Literacy Studies in Early Childhood	Autumn	6
<b>Year 3 - Spring</b>			
EDUF304	Early Childhood Curriculum	Spring	12

Plus two Elective Studies subjects to be chosen from the list below or from 200/300 level subjects in the General Schedule. Enrolment quotas apply to these subjects. Subjects that do not have sufficient enrolments will not run.

EDUE302	Aboriginal Pedagogy (not to count with ABST 362)	Spring
EDUE304	Teaching Language Through Literature in the Primary and Middle Years	Spring
EDUE306	Learning Strategies and Communication in Adult Education	Spring
EDUE308	PDHPE: Health Promotion	Spring
EDUE314	Interactivity and the Web (Designing Hypertext Multimedia)	Spring
EDUE316	Environmental Education - The Built Environment	Spring
EDUE320	Behaviour Management (not to count with EDUE311)	Spring
EDUE321	Reading Difficulties (not to count with EDUE312)	Spring
EDUE323	Educational Psychology in Teaching & Learning	Spring
EDUE324	Gender & Social Justice	Spring
EDUE326	Curriculum & Program Evaluation	Spring
EDUE336	Practicum or Project in Second Language Teaching	Spring
EDUE340	Materials and Technology in Second Language Teaching	Spring

## OR

EDUA331	Creative Arts Key Learning Area Elective II	Spring	6
EDUL335	Language Education Key Learning Area Elective II	Spring	6
EDUM333	Mathematics Education Key Learning Area Elective II	Spring	6
EDUP335	Personal Development, Health and Physical Education Key Learning Area Elective II	Spring	6
EDUS333	Science and Technology Education (K-6) Key Learning Area Elective II	Spring	6
EDUS335	Human Society and Its Environment Key Learning Area Elective II	Spring	6

## Professional Recognition

The Bachelor of Teaching (Early Childhood Education) is recognised by the Kindergarten Union of New South Wales, the New South Wales Department of Education & Training, and the New South Wales Department of Community Services and is a registered VETAB Early Childhood Teacher Education course.

## Bachelor of Education (Early Childhood Education)

Testamur Title of Degree:	Bachelor of Education (Early Childhood Education)
Abbreviation:	BEd (Early Child)

## Course Information

Home Faculty:	Education
Duration:	1 year full time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	882
UAC Code:	N/A
CRICOS Code:	012102F

## Overview

Bachelor of Teaching (Early Childhood Education) graduates may qualify for the award of Bachelor of Education (Early Childhood Education) by completing a fourth year of study. The Bachelor of Education (Early Childhood Education) is designed to develop further the knowledge and skills acquired in the Bachelor of Teaching (Early Childhood Education). Some subjects will be offered after 4.30 pm to allow students who are working during the day to take some of their course after school hours. Students who wish to attend university only in the evenings will need to enrol in the part-time mode.

## Entry Requirements / Assumed Knowledge

The Bachelor of Education (Early Childhood Education) requires, as a pre-requisite, the successful completion of a Bachelor of Teaching (Early Childhood Education) or its equivalent. Entry is competitive and selection is based on overall academic achievement and performance in practical teaching experiences.

## Course Program

Subjects		Session	Credit Points
<b>Year 1 - Annual</b>			
EDUT490	Project in Early Childhood*	Annual	12
<b>Year 1 - Autumn</b>			
EDUT432	Inquiry Project in Education*	Autumn	6

Plus one elective from any part of the Primary program including Key Learning Area electives, Discipline electives or a 200 or higher-level subject chosen from those on offer in any Faculty as well as the Faculty of Education in which the student's enrolment is accepted.

\*EDUT490 and EDUT432 are compulsory subjects

Plus two subjects selected from the following Key Learning Area Elective Studies subjects.

EDUA441	Creative Arts Key Learning Area Elective III	Autumn	6
EDUL441	Language Education Key Learning Area Elective III	Autumn	6
EDUM441	Mathematics Education Key Learning Area Elective III	Autumn	6
EDUP444	Personal Development Health and Physical Education Key Learning Area Elective IV	Autumn	6
EDUS411	Science and Technology Education Key Learning Area Elective III	Autumn	6
EDUS441	Human Society and Its Environment Key Learning Area Elective III	Autumn	6
EDUE401	Issues In Aboriginal Education (not to count with EDUE301/ABST361)	Autumn	6
EDUE405	Assessing Performance in Adult Training	Autumn	6
EDUE407	Inquiry Project in Physical and Health Education	Autumn	6
EDUE408	Placement in Physical and Health Education	Autumn	6
EDUE411	Disability Issues Across the Lifespan	Autumn	6
EDUE413	Managing Multimedia Resources	Autumn	6
EDUE415	School and Community Based Sustainable Development Practices	Autumn	6
EDUE317	English Language: Examining Learners' Problems	Autumn	6
EDUE319	Programming and Methodology in Second Language Teaching	Autumn	6
EDUT432	Project in Education	Autumn	6

## Year 1 - Spring

Three electives from any part of the Primary program including Key Learning Area electives, Discipline electives or a 200 or higher level subject chosen from those on offer in any Faculty as well as the Faculty of Education in which the student's enrolment is accepted.

EDUA442	Creative Arts Key Learning Area Elective IV	Spring	6
EDUL442	Language Education Key Learning Area Elective IV	Spring	6
EDUM442	Mathematics Education Key Learning Area Elective IV	Spring	6
EDUP441	Personal Development Health and Physical Education Key Learning Area Elective III	Spring	6
EDUS444	Human Society and Its Environment Key Learning Area Elective IV	Spring	6
EDUE402	Aboriginal Pedagogy (not to count with EDUE302/ABST362)	Spring	6
EDUE406	Theories of Adult Learning	Spring	6
EDUE407	Inquiry Project in Physical and Health Education	Spring	6
EDUE408	Placement in Physical and Health Education	Spring	6



EDUE412	Programming for Individuals with Moderate to Severe Disabilities	Spring	6
EDUE414	Cognition, Interface and Interactivity	Spring	6
EDUE416	Environmental Education - Through Information Technology	Spring	6
EDUE340	Materials and Technology in Second Language Teaching	Spring	6
EDUT432	Project in Education	Spring	6

### Professional Recognition

The Bachelor of Education (Early Childhood Education) is recognised by the Kindergarten Union of New South Wales, the New South Wales Department of Education & Training and the New South Wales Department of Community Services.

## Bachelor of Education (Early Childhood Education) Honours

Testamur Title of Degree:	Bachelor of Education (Early Childhood Education) with Honours
Abbreviation:	BEd (Hons)
Home Faculty:	Education
Duration:	1 year full time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	883
UAC Code:	755111
CRICOS Code:	012102F

### Overview

Students admitted to the Honours program will be expected to study over two sessions for a total of 48 credit points. The program requires the completion of a 24-credit point thesis, EDUT496 - Honours Thesis in Early Childhood, an annual subject, plus EDUT495 - Selected Topics in Early Childhood Education, plus EDUT403 - Research Methods. Refer to subject listing for further information.

## Bachelor of Teaching (Primary Education)

Testamur Title of Degree:	Bachelor of Teaching (Primary Education)
Abbreviation:	BTeach (Prim)
Home Faculty:	Education
Duration:	3 years full time or part time equivalent
Total Credit Points:	144
Delivery Mode:	Face to face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	880
UAC Code:	755112
CRICOS Code:	012099G

### Overview

This course aims to develop reflective, professional teachers who can work effectively in a variety of educational settings including primary schools in both the public and private sectors. Core subjects are drawn from four strands: Education Foundation Studies, Studies in the Key Learning Areas, Studies in Curriculum and Pedagogy and Elective Studies. Elective choices are available from both within the Faculty and from the schedules of subjects offered by other Faculties. The course requires students to complete 12 credit points of elective studies outside the Faculty of Education.

While it is possible to complete the course on a part-time basis, students need to be aware that there could be timetable difficulties. Students intending to attempt the degree part-time should consult with the Director of Primary Education at enrolment.

### Entry Requirements / Assumed Knowledge

The New South Wales Department of Education and Training requires graduates seeking employment with the Department to have completed any two units of English, or equivalent subjects, and any two units of mathematics as part of their HSC or university studies, to gain registration as a teacher.

## Course Requirements

### *Practical Teaching Experience*

The course involves practical teaching experiences in each year. The details relating to practical teaching experience are noted in the subject descriptions for EDUT111 - Curriculum and Pedagogy I, EDUT211 - Curriculum and Pedagogy II and EDUT302 - Curriculum and Pedagogy III. Practical teaching experiences usually occur in Illawarra, Shoalhaven, Southern Highlands and Southern Sydney schools. Opportunities to undertake a practical teaching experience in countries such as China, Fiji, Malaysia and Thailand may also be available.

### *Prohibited Persons Legislation*

Teacher education students must complete a "Prohibited Employment Declaration" before undertaking practical teaching experience as required by the Child Protection (Prohibited Employment) Act 1998.

## Course Program

Students should note that a revised program of study is being implemented for the Bachelor of Teaching (Primary Education) in 2004. Students who commenced the course before 2004 should refer to the program of study that applied at the time of their enrolment. Such information is available at the Faculty of Education Web Page.

Subjects		Session	Credit Points
<b>Year 1 - Autumn</b>			
EDUF111	Education I	Autumn	6
EDUL101	Language and Literacy Education I	Autumn	6
EDUM201	Mathematics Education	Autumn	6
EDUT111	Curriculum and Pedagogy I	Autumn	6
<b>Year 1 - Spring</b>			
EDUA201	Creative Arts Education	Spring	6
EDUP201	Personal Development, Health and Physical Education	Spring	6
EDUS102	Science and Technology Education	Spring	6
EDUS104	Human Society and Its Environment	Spring	6
<b>Year 2 - Autumn</b>			
EDIT102	Information Technology for Learning	Autumn	6
Plus one of the following Key Learning Area Elective Studies. Enrolment quotas apply to these subjects.			
EDUA224	Creative Arts Key Learning Area Elective I	Autumn	6
EDUL224	Language Education Key Learning Area Elective I	Autumn	6
EDUM224	Mathematics Education Key Learning Area Elective I	Autumn	6
EDUP226	Personal Development, Health and Physical Education Key Learning Area Elective I	Autumn	6
EDUS224	Science and Technology Education Key Learning Area Elective I	Autumn	6
EDUS226	Human Society and Its Environment Key Learning Area Elective I	Autumn	6
Plus one Elective Studies subject to be chosen from the list below or from 200/300 level subjects in the General Schedule. Enrolment quotas apply to these subjects. Subjects that do not have sufficient enrolments will not run.			
EDUE301	Issues in Aboriginal Education (not to count with ABST361)	Autumn	6
EDUE303	Teaching Language and Literacy Through Literature in Early Childhood	Autumn	6
EDUE305	Design and Assessment of Learning Experiences for Adults	Autumn	6
EDUE307	Physical Education: Coaching and Sports Administration	Autumn	6
EDUE313	Interactive Multimedia by Design	Autumn	6
EDUE315	Environmental Education - The Natural Environment	Autumn	6
EDUE317	English Language: Examining Learners Problems	Autumn	6
EDUE319	Programming and Methodology in Second Language Teaching	Autumn	6
EDUE320	Behaviour Management (Not to count with EDUE311)	Autumn	6
EDUE321	Reading Difficulties (Not to count with EDUE312)	Autumn	6
EDUE322	The Psychology of Exceptional Children	Autumn	6
EDUE325	Youth, Culture, Education	Autumn	6
EDUE327	Language & Ideology	Autumn	6
EDUE336	Practicum or Project in Second Language Teaching	Autumn	6
Plus one 6-credit point subject chosen from those subjects on offer in any Faculty other than the Faculty of Education in which the students' enrolment is accepted. Refer to the General Schedule.			
<b>Year 2 - Spring</b>			
EDUF204	Learners with Exceptional Needs	Spring	6
EDUF212	Education II	Spring	6
EDUL202	Language and Literacy Education II	Spring	6
EDUT211	Curriculum and Pedagogy II	Spring	6
<b>Year 3 - Autumn</b>			
EDUF311	Education III	Autumn	6
EDUT301	Research Methods	Autumn	6

Plus one of the following Key Learning Area Elective Studies. Enrolment quotas apply to these subjects.

EDUA224	Creative Arts Key Learning Area Elective I	Autumn	6
EDUL224	Language Education Key Learning Area Elective I	Autumn	6
EDUM224	Mathematics Education Key Learning Area Elective I	Autumn	6
EDUP226	Personal Development, Health and Physical Education Key Learning Area Elective I	Autumn	6
EDUS224	Science and Technology Education Key Learning Area Elective I	Autumn	6
EDUS226	Human Society and Its Environment Key Learning Area Elective I	Autumn	6

Plus one 6-credit point subject chosen from those subjects on offer in any Faculty other than the Faculty of Education in which the students' enrolment is accepted. Refer to the General Schedule.

### Year 3 - Spring

EDUT302	Curriculum & Pedagogy III	Spring	12
---------	---------------------------	--------	----

Plus one of the following Key Learning Area Elective Studies. Enrolment quotas apply to these subjects.

EDUA331	Creative Arts Key Learning Area Elective II	Spring	6
EDUL335	Language Education Key Learning Area Elective II	Spring	6
EDUM333	Mathematics Education Key Learning Area Elective II	Spring	6
EDUP335	Personal Development, Health and Physical Education Key Learning Area Elective II	Spring	6
EDUS333	Science and Technology Education (K-6) Key Learning Area Elective II	Spring	6
EDUS335	Human Society and Its Environment Key Learning Area Elective II	Spring	6

Plus one Elective Studies subject to be chosen from the list below or from 200/300 level subjects in the General Schedule. Enrolment quotas apply to these subjects. Subjects that do not have sufficient enrolments will not run.

EDUE302	Aboriginal Pedagogy (Not to count with ABST 362)	Spring	6
EDUE304	Teaching Language Through Literature in the Primary and Middle Years	Spring	6
EDUE306	Learning Strategies and Communication in Adult Education	Spring	6
EDUE308	PDHPE: Health Promotion	Spring	6
EDUE314	Interactivity and the Web (Designing Hypertext Multimedia)	Spring	6
EDUE316	Environmental Education - The Built Environment	Spring	6
EDUE320	Behaviour Management (Not to count with EDUE311)	Spring	6
EDUE321	Reading Difficulties (Not to count with EDUE312)	Spring	6
EDUE323	Educational Psychology in Teaching & Learning	Spring	6
EDUE324	Gender & Social Justice	Spring	6
EDUE326	Curriculum & Program Evaluation	Spring	6
EDUE336	Practicum or Project in Second Language Teaching	Spring	6
EDUE340	Materials and Technology in Second Language Teaching	Spring	6

### Summer Session

EDUF111	Education I	Summer	6
EDUE304	Teaching Language Through Literature in the Primary and Middle Years	Summer	6
EDUE333	International Teaching Project	Summer	6

## Major Study Areas

Education and professional studies, primary school key learning areas.

## Professional Recognition

The Bachelor of Teaching (Primary Education) degree is a recognised New South Wales teaching credential and is also recognised in most other Australian states and territories.

## Other Information

### *Knowledge Building Community (KBC) - Mentor Program*

It is possible for students to participate in an innovative approach to teacher training, the KBC - Mentor Program. Students who participate in the KBC - Mentor Program complete the requirements of the Bachelor of Teaching (Primary Education) by engaging in collaborative problem solving under the guidance of mentoring lecturers and classroom teachers. Students requiring information concerning the KBC should consult the Director of Primary Education.

## Bachelor of Education (Primary Education)

Testamur Title of Degree:	Bachelor of Education (Primary Education)
Abbreviation:	BEd (Prim)
Home Faculty:	Education
Duration:	1 year full time or part-time equivalent

## Course Information

Total Credit Points:	48
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	871
UAC Code:	N/A
CRICOS Code:	012102F

## Overview

Bachelor of Teaching (Primary Education) graduates may qualify for the award of Bachelor of Education (Primary Education) by completing a fourth year of study. The Bachelor of Education (Primary Education) is designed to develop further the knowledge and skills acquired in the Bachelor of Teaching (Primary Education). Some subjects will be offered after 4.30 pm to allow students who are working during the day to take some of their course after school hours. Students who wish to attend university only in the evenings will need to enrol in the part-time mode.

## Entry Requirements / Assumed Knowledge

The Bachelor of Education (Primary Education) requires, as a pre-requisite, the successful completion of a Bachelor of Teaching (Primary Education) or its equivalent. Entry is competitive and selection is based on overall academic achievement and performance in practical teaching experiences. Students entering with a BTeach (Early Childhood) are required to undertake a three-week practicum with Years 3-6.

## Course Program

Subjects		Session	Credit Points
<b>Year 1 - Autumn</b>			
Either			
EDUF421	Leadership and International Perspectives In Education	Autumn	6
Or			
EDUT422	Reflective Practice	Autumn	6
Plus one elective from any part of the Primary program including Key Learning Area electives, Discipline electives or a 200 or higher-level subject chosen from those on offer in any Faculty as well as the Faculty of Education in which the student's enrolment is accepted.			
Plus either two subjects selected from the following Key Learning Area Elective Studies subjects.			
EDUA441	Creative Arts Key Learning Area Elective III	Autumn	6
EDUL441	Language Education Key Learning Area Elective III	Autumn	6
EDUM441	Mathematics Education Key Learning Area Elective III	Autumn	6
EDUP444	Personal Development Health and Physical Education Key Learning Area Elective IV	Autumn	6
EDUS411	Science and Technology Education Key Learning Area Elective III	Autumn	6
EDUS441	Human Society and Its Environment Key Learning Area Elective III	Autumn	6
Or one subject selected from the Key Learning Area Elective Studies subjects set out above plus one subject selected from the Elective Studies subjects listed below.			
EDUE401	Issues In Aboriginal Education (Not to count with EDUE301/ABST361)	Autumn	6
EDUE405	Assessing Performance in Adult Training	Autumn	6
EDUE407	Inquiry Project in Physical and Health Education	Autumn	6
EDUE408	Placement in Physical and Health Education	Autumn	6
EDUE411	Disability Issues Across the Lifespan	Autumn	6
EDUE413	Managing Multimedia Resources	Autumn	6
EDUE415	School and Community Based Sustainable Development Practices	Autumn	6
EDUE317	English Language: Examining Learners' Problems	Autumn	6
EDUE319	Programming and Methodology in Second Language Teaching	Autumn	6
EDUT432	Project in Education	Autumn	6
<b>Year 1 - Spring</b>			
Either			
EDUF421	Leadership and International Perspectives In Education	Spring	6
Or			
EDUT422	Reflective Practice	Spring	6
Plus one elective from any part of the Primary program including Key Learning Area electives, Discipline electives or a 200 or higher-level subject chosen from those on offer in any Faculty as well as the Faculty of Education in which the student's enrolment is accepted.			
Plus either two subjects selected from the following Key Learning Area Elective Studies subjects.			
EDUA442	Creative Arts Key Learning Area Elective IV	Spring	6
EDUL442	Language Education Key Learning Area Elective IV	Spring	6
EDUM442	Mathematics Education Key Learning Area Elective IV	Spring	6
EDUP441	Personal Development Health and Physical Education Key Learning Area Elective III	Spring	6

EDUS444	Human Society and Its Environment Key Learning Area Elective IV	Spring	6
Or one subject selected from the Key Learning Area Elective Studies subjects set out above plus one subject selected from the Elective Studies subjects listed below.			
EDUE402	Aboriginal Pedagogy (not to count with EDUE302/ABST362)	Spring	6
EDUE406	Theories of Adult Learning	Spring	6
EDUE407	Inquiry Project in Physical and Health Education	Spring	6
EDUE408	Placement in Physical and Health Education	Spring	6
EDUE412	Programming for Individuals with Moderate to Severe Disabilities	Spring	6
EDUE414	Cognition, Interface and Interactivity	Spring	6
EDUE416	Environmental Education - Through Information Technology	Spring	6
EDUE340	Materials and Technology in Second Language Teaching	Spring	6
EDUT432	Project in Education	Spring	6

### Professional Recognition

The Bachelor of Education (Primary Education) degree is a recognised New South Wales teaching credential and is also recognised in most other Australian states and territories.

## Bachelor of Education (Primary Education) Honours

Testamur Title of Degree:	Bachelor of Education (Primary Education) Honours
Abbreviation:	BEd (Hons)-Prim
Home Faculty:	Education
Duration:	1 year full time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	870
UAC Code:	755112
CRICOS Code:	012102F

### Overview

Students admitted to the Bachelor of Education (Primary Education) with Honours must enrol in EDUT 403 - Research Methods in Education in Autumn Session plus a 24 credit point Annual subject EDUT 493 - Thesis (annual) plus 3 subjects chosen from 400 level subjects offered in the Bachelor of Education (Primary Education) course structure.

## Bachelor of Education (Physical & Health Education)

Testamur Title of Degree:	Bachelor of Education (Physical & Health Education)
Abbreviation:	BEd (Phy/HlthEd)
Home Faculty:	Education
Duration:	4 years full time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	804
UAC Code:	755101
CRICOS Code:	012101G

### Overview

This course is intended to provide a sound academic and professional training for teachers who wish to be employed in the areas of Personal Development, Health and Physical Education.

The course normally extends over a minimum period of four years, and offers specialist studies in the physical and behavioural sciences and socio-cultural foundations of human movement and their application to physical education in schools. Extensive studies in health education and personal development are offered in the course. The specialist subjects in the program are complemented by studies in dance, games, gymnastics, aquatics and track and field, together with fieldwork and practice teaching experience.

## Course Information

The course requires the aggregation of at least 192 credit points, with 48 credit points normally being undertaken in each year of full time study.

The course contains core subjects, the study of which is mandatory and elective subjects, which allow an element of choice for the student. It should be noted that:

1. In each of the four years a period of mandatory practical teaching experience in schools is required.
2. Attendance is mandatory at tutorials, laboratory classes and excursions, unless given specific exemption by the Program Director.

## Entry Requirements / Assumed Knowledge

The New South Wales Department of Education and Training requires graduates seeking employment with the Department to have completed any two units of English, or equivalent subjects, as part of their HSC or university studies, to gain registration as a teacher.

## Course Requirements

### *Practical Teaching Experience*

The course involves practical teaching experiences in each year. Practical teaching experiences usually occur in Illawarra, Shoalhaven, Southern Highlands and Southern Sydney schools. Opportunities to undertake a practical teaching experience in countries such as China, Fiji, Malaysia and Thailand or Western NSW may also be available.

### *Prohibited Persons Legislation*

Teacher education students must complete a "Prohibited Employment Declaration" before undertaking practical teaching experience as required by the Child Protection (Prohibited Employment) Act 1998.

## Course Program

Subjects	Session	Credit Points
<b>Year 1 - Autumn</b>		
EDUF111	Education I	Autumn 6
EDUP123	Movement Concepts and Practices	Autumn 6
EDUP131	Systemic Anatomy	Autumn 6
EDUP153	Foundations of Personal Development, Health and Physical Education	Autumn 6
<b>Year 1 - Spring</b>		
EDIT102	Information Technology for Learning	Spring 6
EDUP124	Skill Analysis and Performance I	Spring 6
EDUP132	Physiology	Spring 6
EDUP144	Health and Health Behaviour	Spring 6
<b>Year 2 - Autumn</b>		
EDUP223	Skill Analysis and Performance II	Autumn 6
EDUP235	Biomechanics for Educators	Autumn 6
EDUP243	Exploring Emotional Well-being	Autumn 6
EDUP255	Teaching Physical Education	Autumn 6
<b>Year 2 - Spring</b>		
EDUP224	Skill Analysis and Performance III	Spring 6
EDUP234	Exercise Physiology	Spring 6
EDUP246	Risk taking and Young People	Spring 6
EDUP256	Teaching Health Education	Spring 6
<b>Year 3 - Autumn</b>		
EDUP323	Advanced Skill Analysis I	Autumn 6
EDUP333	Motor Learning	Autumn 6
EDUP391	Research and Evaluation in Physical and Health Education	Autumn 6
EDUP392	Social and Cultural Perspectives of Physical Activity and Physical Education	Autumn 6
<b>Year 3 - Spring</b>		
EDUP324	Advanced Skill Analysis II	Spring 6
EDUP346	Sexuality, Identity and Relationships	Spring 6
EDUP355	Curriculum Perspectives and Issues in Personal Development, Health and Physical Education	Spring 6
Plus: Any 6cp elective subject chosen from either the list of electives for the Bachelor of Education (Physical and Health Education), or any Education KLA or Discipline elective or a subject chosen from those on offer in any other Faculty in which the student's enrolment is accepted.		
<b>Year 4 - Autumn</b>		
EDUP453	Professional Studies in Personal Development, Health and Physical Education	Autumn 6
EDUP454	Physical and Health Education Extended Practicum	Autumn 6
EDUP491	Theory and Application of Special Education in Physical and Health Education	Autumn 6

Plus: Any 6cp elective subject chosen from either the list of electives for the Bachelor of Education (Physical and Health Education), or any Education Key Learning Area or Discipline elective or a subject chosen from those on offer in any other Faculty in which the student's enrolment is accepted.

#### Year 4 - Spring

EDUP435	First Aid and Sports Medicine	Spring	6
EDUP446	Contemporary Health Issues	Spring	6
EDUP492	Leadership and Management in Physical and Health Education	Spring	6

Plus: Any 6cp elective subject chosen from either the list of electives for the Bachelor of Education (Physical and Health Education), or any Education Key Learning Area or Discipline elective or a subject chosen from those on offer in any other Faculty in which the student's enrolment is accepted.

EDUP313	Advanced Coaching and Administration	TBA	6
EDUP361	Progress and Issues in Health and Health Promotion	TBA	6
EDUP362	Issues in Drug Education	Autumn	6
EDUP363	Stress Management	Spring	6
EDUP381	Outdoor Education	Autumn	6
EDUP382	Leadership and Management Skills in Outdoor Education	Spring	6
EDUP368	Fitness Assessment and Exercise Prescription for Children	Spring	6
EDUP367	Sport Studies II	Spring	6
EDUP366	Independent Project in Physical and Health Education	Autumn and Spring	6
EDUP447	Sport Studies I	Autumn	6

### Professional Recognition

The Bachelor of Education (Physical & Health Education) is recognised as a teaching credential in all Australian states and territories.

## Bachelor of Education (Physical & Health Education) Honours

Testamur Title of Degree:	Bachelor of Education (Physical & Health Education) Honours
Abbreviation:	BEd(Hons)
Home Faculty:	Education
Duration:	1 year
Total Credit Points:	48cps
Delivery Mode:	Face to face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	872
UAC Code:	N/A
CRICOS Code:	012101G

### Overview

Students who have achieved a high level of academic performance in the first 3 years of the Bachelor of Education (Physical & Health Education) may complete the fourth year of the Bachelor of Education (Physical & Health Education) at Honours level.

The pattern of progression for the Honours degree conforms to the normal pattern of progression for the Pass degree except that in the Honours degree EDUP366 - Independent Project usually replaces an elective in the third year of the course and EDUP430 - Project in Physical and Health Education replaces two electives in the fourth year.

## Bachelor of Mathematics Education

Testamur Title of Degree:	Bachelor of Mathematics Education
Abbreviation:	BMathEd
Home Faculty:	Education
Duration:	4 years full time or part time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Loftus
UOW Course Code:	886
UAC Code:	755102

## Overview

The Bachelor of Mathematics Education course is directed towards providing pre-service educational training for teachers. The degree focuses on developing secondary school teachers as critical reflective practitioners with a sound basis of practical teaching skills. In addition, this degree also develops mathematical concepts in a broad range of areas to provide a full Mathematics major in a specialisation of their choice that can be utilised in other community settings. The degree applies an innovative approach to provide students with both the mathematical knowledge/training and the teaching/educational training in an integrated fashion.

Students accepted into the program will study the following areas:

- Educational Foundation Studies
- Curriculum & Pedagogy
- Discipline Studies in Mathematics
- Teaching & Learning in Mathematics

The degree is structured to allow the integration of university and classroom experience throughout the course. Degree delivery includes lectures, tutorials, seminars and school-based workshops using alternative modes of delivery.

## Entry Requirements / Assumed Knowledge

The New South Wales Department of Education and Training requires graduates seeking employment with the Department to have completed Mathematics and any two units of English, or equivalent subjects, as part of their HSC or university studies, to gain registration as a teacher.

## Course Requirements

### *Practical Teaching Experience*

The course involves a total of 13 weeks of practical teaching experience and observation in secondary schools.

### *Prohibited Persons Legislation*

Teacher education students must complete a "Prohibited Employment Declaration" before undertaking practical teaching experience as required by the Child Protection (Prohibited Employment) Act 1998.

### *Course requirements*

To teach Mathematics in NSW Government Schools, students need to have completed a **minimum** of 12 credit points at 100-level plus 18 credit points at 200-level in Mathematics as part of their teacher training program.

## Course Program

Recommended Structure for Odd Year Intake

Subjects		Session	Credit Points
<b>Year 1 - Autumn Session</b>			
EDUF111	Education I	Autumn	6
MATH187	Mathematics IA Part A	Autumn	6
STAT131	Understanding Variation & Uncertainty	Autumn	6
Plus one 6-credit point 100 level Mathematics/Computing elective subject.			
<b>Year 1 - Spring Session</b>			
CSCI114	Procedural Programming	Spring	6
EDUT104	Introduction to Teaching/Learning	Spring	6
MATH188	Mathematics 1A Part B	Spring	6
Plus one 6-credit point 100 level Mathematics/Computing elective subject.			
<b>Year 2 - Autumn</b>			
EDIT102	Information Technology For Learning	Autumn	6
EDUF204	Learners with Special Needs	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH121	Discrete Mathematics	Autumn	6
<b>Year 2 - Spring</b>			
EDUF212	Education II	Spring	6
EDUT204	Professional Mathematics Community I	Spring	6
MATH202	Differential Equations 2	Spring	6
MATH111	Applied Mathematical Modelling	Spring	6
<b>Year 3 - Autumn</b>			
EDUT301	Research Methods	Autumn	6
MATH203	Linear Algebra	Autumn	6
Plus two 6-credit point 200 level Mathematics/Computing elective subjects.			
<b>Year 3 - Spring</b>			
EDUT304	Professional Mathematics Community II	Spring	6
EDUL312	Understanding the Literacy Needs of Adolescents	Spring	6
MATH204	Complex & Group Theory	Spring	6
Plus one 6-credit point 200 level Mathematics/Computing elective subject.			
<b>Year 4 - Autumn</b>			



EDUP301	Issues in Health and Physical Activity	Autumn	6
EDUT405	Critical Approaches to Curriculum	Autumn	6
Plus two 6-credit point 300 level Computing/Mathematics elective subjects.			
<b>Year 4 - Spring</b>			
EDUT404	Professional Mathematics Community III	Spring	12
INFO301	Secure and reliable Digital Communications	Spring	6
Plus one 6-credit point 300 level Computing/Mathematics elective subject.			

## Major Study Areas

Mathematics, educational theory and practice.

## Professional Recognition

Most states and territories of Australia as well as the UK, Asia and Canada.

## Bachelor of Science Education

Testamur Title of Degree:	Bachelor of Science Education
Abbreviation:	BScEd
Home Faculty:	Education
Duration:	4 years full time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face to face with online support
Starting Session(s):	Autumn
Location:	Loftus Education Centre
UOW Course Code:	887
UAC Code:	755103
CRICOS Code:	Not applicable

## Overview

The Bachelor of Science Education course is directed towards providing pre-service educational training for teachers. The degree focuses on developing secondary school teachers as critical reflective practitioners with a sound basis of practical teaching skills. In addition, this degree also develops scientific concepts in a broad range of areas to provide a full Science major in a specialisation of their choice that can be applied in other community settings.

The degree applies an innovative approach to provide students with both the scientific knowledge/training and the teaching/educational training in an integrated fashion.

Students accepted into the program will study the following areas:

- Educational Foundation Studies
- Curriculum & Pedagogy
- Discipline Studies in Science
- Teaching & Learning in Science

The degree is structured to allow the integration of university and classroom throughout the course. Degree delivery includes lectures, tutorials, seminars and school-based workshops using alternative modes of delivery.

## Entry Requirements / Assumed Knowledge

The New South Wales Department of Education and Training requires graduates seeking employment with the Department to have completed any two units of English, or equivalent subjects, as part of their HSC or university studies, to gain registration as a teacher.

Assumed Knowledge - Mathematics (not General Mathematics) and any two units of English.

Recommended Studies - Four units of science selected from Chemistry, Physics, Biology or Earth and Environment.

Students with a limited background in these subjects or mathematics are advised to enrol in bridging courses held in February each year.

## Course Requirements

### *Pattern Of Study*

In choosing subjects for this degree the following points need to be considered:

## Course Information

1. Students need to complete 12 credit points at the 100 level in three of the four science disciplines on offer in Years 1 and 2. However, students majoring in Physics need to complete 12 credit points at the 100 level in two of the four science disciplines plus 6 credit points at the 100 level in one other science.
2. To teach in NSW Government Schools students need to have completed a minimum of two years in one science (24 credit points) plus one year in a second science (12 credit points), provided that one of the sciences is either Physics or Chemistry as part of their teacher training program.

## Practical Teaching Experience

The course involves a total of 13 weeks of practical teaching experience and observation in secondary schools.

## Prohibited Persons Legislation

Teacher education students must complete a "Prohibited Employment Declaration" before undertaking practical teaching experience as required by the Child Protection (Prohibited Employment) Act 1998.

## Course Program

Recommended Structure for Odd year intake:

### Subjects (by year)

#### Year 1 - Autumn

Subjects (by year)	Session	Credit Points
EDUF111 Education I	Autumn	6
Either		
MATH141 Mathematics 1C Part 1	Autumn	6
Or		
MATH187 Mathematics 1A Part 1	Autumn	6
Students proposing to teach Physics must choose MATH 187.		
Plus two other subjects chosen from the following:		
GEOS111 Planet Earth	Autumn	6
PHYS141 Physics 1A	Autumn	6
Plus any 100 level subject, chosen from those on offer in any Faculty in which the student's enrolment is accepted.		

#### Year 1 - Spring

EDUT104 Introduction to Teaching/Learning	Spring	6
SCIE101 Modern Perspectives in Science	Spring	6
Plus two other subjects chosen from the following:		
GEOS102 Earth, Environments and Resources	Spring	6
PHYS142 Fundamentals of Physics B	Spring	6
Either		
MATH142 Mathematics 1C Part 2	Spring	6
Or		
MATH188 Mathematics 1A Part 2	Spring	6
Plus any 100 level Science subject, chosen from those on offer in any Faculty in which the student's enrolment is accepted.		
Students proposing to teach Physics must choose either MATH142 or MATH188.		

#### Year 2 - Autumn

EDUF204 Learners with Special Needs	Autumn	6
EDIT102 Information Technology For Learning	Autumn	6
Plus two other subjects chosen from the following:		
CHEM101 Chemistry 1A: Introduction to General and Physical Chemistry	Autumn	6
BIOL104 Evolution, Biodiversity and Environment	Autumn	6
MATH201* Multivariate and Vector Calculus	Autumn	6
Or any 100 level subject, chosen from those on offer in any Faculty in which the student's enrolment is accepted.		
*Students proposing to teach Physics must choose MATH201.		

#### Year 2 - Spring

EDUT206 Professional Science Community I	Spring	6
EDUF212 Education II	Spring	6
Plus two other subjects chosen from the following:		
CHEM102 Chemistry 1B: Introduction to Organic and Physical Chemistry	Spring	6
BIOL103 Molecules, Cells and Organisms	Spring	6
MATH202* Differential Equations 2	Spring	6
Or any 100 level subject, chosen from those on offer in any Faculty in which the student's enrolment is accepted.		
*Students proposing to teach Physics must choose MATH202.		

#### Year 3 - Autumn

EDUT301 Research Methods	Autumn	6
Plus either a 200/300 level Elective Studies subject chosen from those offered in the Bachelor of Teaching (Primary Education) or MATH203. Students proposing to teach Physics must choose MATH203.		

Plus two 6-credit point 200 level Science elective subjects.

#### Year 3 - Spring

EDUT306 Professional Science Community II	Spring	6
EDUL312 Understanding the Literacy Needs of Adolescents	Spring	6

Plus two 6-credit point 200 level Science elective subjects.

#### Year 4 - Autumn

EDUP301	Issues in Health and Physical Activity	Autumn	6
EDUT405	Critical Approaches to Curriculum	Autumn	6
Plus two 6-credit point 300 level Science elective subjects.			
<b>Year 4 - Spring</b>			
EDUT406	Professional Science Community III	Spring	12
Plus two 6-credit point 300 level Science elective subjects.			

### Major Study Areas

Education theory and practice, science.

### Professional Recognition

Most states and territories of Australia as well as UK, Asia and Canada.

# Faculty of Engineering

## Member Units

School of Civil, Mining and Environmental Engineering

School of Engineering Physics

School of Mechanical, Materials and Mechatronics Engineering

## Degrees Offered

Bachelor of Engineering

Bachelor of Medical and Radiation Physics Advanced (Honours)

Bachelor of Medical and Radiation Physics

Bachelor of Science (Materials)

Bachelor of Science (Photonics)

Bachelor of Science (Honours) Advanced Program - Physics

Bachelor of Science (Physics)

## Double Degrees

Bachelor of Engineering - Bachelor of Arts

Bachelor of Engineering - Bachelor of Commerce

Bachelor of Engineering - Bachelor of Computer Science

Bachelor of Engineering - Bachelor of Mathematics

Bachelor of Engineering - Bachelor of Science

Bachelor of Engineering (Mechanical or Mechatronics) - Bachelor of Science (Exercise Science)

Bachelor of Science (Physics) - Bachelor of Mathematics

### Refer to the Faculty of Science for the following double degrees and Nanotechnology degrees:

Bachelor of Commerce - Bachelor of Science (Physics)

Bachelor of Nanotechnology

Bachelor of Science (Nanotechnology)

### Refer to the Faculty of Arts for the following double degree:

Bachelor of Arts - Bachelor of Science (Physics)

### Refer to the Faculty of Creative Arts for the following double degree:

Bachelor of Creative Arts - Bachelor of Science (Physics)

### Refer to the Faculty of Law for the following double degree:

Bachelor of Law - Bachelor of Science (Physics)

Bachelor of Engineering - Bachelor of Laws

### Refer to the Faculty of Informatics for the following double degree:

Bachelor of Engineering (Computer, Electrical or Telecommunications) - Bachelor of Science (Physics)

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>

International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

## Bachelor of Engineering

Civil Engineering  
Environmental Engineering  
Materials Engineering  
Mechanical Engineering  
Mechatronic Engineering  
Mining Engineering

### Course Requirements

The normal full time load for a Bachelor of Engineering is 48 credit points per year and, apart from thesis and professional experience subjects, all subjects have a credit point value of 6. All students must complete the required number of credit points and satisfy all course requirements for a degree or double degree before graduation – refer to course structures below.

The Bachelor of Engineering normally takes four years to complete, with double majors and double degrees normally taking five years to complete. All students must take notice of the Course Rules regarding minimum rate of progress.

Full-time Bachelor of Engineering students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between the third and fourth years.

Each student must prepare a substantial project (thesis) on a research or design topic under the supervision of an academic staff member. There are two thesis options – ENGG452 Thesis A (12 credit points) and ENGG453 Thesis B (18 credit points). ENGG453 may be taken by students in the Engineering Scholars Program, or by other high achieving students, with permission of the Sub Dean. ENGG453 students are exempt from one 6cp elective.

The formal contact hours, methods of teaching and learning and forms of assessment vary from subject to subject. Explicit details will be provided to students at the commencement of each subject by the subject coordinator.

Students should attend all classes including lectures, tutorials and laboratory classes.

### Scholars Program

Students require a UAI of 93 to enter the Scholars Program in first year. Once accepted to the program students need to achieve a Weighted Average Mark (WAM) of at least 75 each year to maintain a place. Current students can apply for a course transfer to this program after completion of a minimum of 48 credit points. Scholars Program students must complete all requirements for their respective degrees.

### Scholars Research Options

Engineering Scholars Program students have the option of undertaking research projects with the various Faculty Research Units. Students should discuss proposals with the Sub Dean or Discipline Adviser before enrolling in any of the following six credit point elective subjects:

ENGG171 Scholars Research Project 1  
ENGG271 Scholars Research Project 2  
ENGG371 Scholars Research Project 3

### Professional Options

The Faculty encourages the development of engineering skills and knowledge gained in the workplace through Professional Options. Students who work in appropriate industries can enrol in Professional Option subjects and count their industry skills and knowledge toward their degree.

Depending on the degree, and subject to approval by the Discipline Adviser, students will be able to take up to three of the following six credit point Professional Option subjects during their course:

ENGG255 Professional Option 2  
ENGG355 Professional Option 3  
ENGG455 Professional Option 4

### Honours

Honours are awarded at the end of the course on the basis of overall performance throughout the course.

## Advanced Standing

Applicants holding relevant TAFE Diplomas and Advanced Diplomas with a consistently good performance will normally be granted 48 credit points (one year) of advanced standing. Students are advised to take the maximum number of mathematics and science units available in their TAFE course. Credit may also be given for appropriate work experience or for courses completed in the workplace.

## Professional Recognition

The Engineering degrees have been fully recognised by Engineers Australia. This recognition ensures that graduates from this course are admitted, on application, to the grade of Graduate Membership of Engineers Australia.

## Study Options - Double Majors

A number of double engineering majors are available:

Bachelor of Engineering - Civil/Mining

Bachelor of Engineering - Civil/Environmental

Bachelor of Engineering - Mining/Environmental

These programs of study usually take five years to complete. Students may apply to transfer to a double major at the end of the first year of study. Study programs are detailed in the following pages.

## Study Options - Double Degrees

A number of double degrees are offered by the Faculty of Engineering:

Bachelor of Engineering - Bachelor of Arts

Bachelor of Engineering - Bachelor of Commerce

Bachelor of Engineering - Bachelor of Computer Science

Bachelor of Engineering - Bachelor of Mathematics

Bachelor of Engineering - Bachelor of Science

Bachelor of Engineering (Mechanical or Mechatronics) - Bachelor of Science (Exercise Science)

Bachelor of Science (Physics) - Bachelor of Mathematics

Requirements for each of the double degrees are outlined in the following pages.

## Further Studies Options

Graduates can apply for entry to the Master of Engineering Practice, Master of Engineering, Master of Engineering-Research or PhD. Continual education is a requirement for registration as a professional engineer and most engineers undertake further study and/or short courses. Research opportunities are also available.

## Bachelor of Engineering (Civil Engineering)

Testamur Title of Degree:	Bachelor of Engineering (Civil Engineering)
Abbreviation:	BE(Civil)
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	721
UAC Code:	755611
CRICOS Code:	027466K

## Overview / Course Aims

The Civil Engineering course aims to provide students with broad-based knowledge, training, skills and experience in areas required for practice in civil engineering. Upon satisfactory completion of the course students should be able to practise in areas requiring skills for planning, design and construction of buildings and bridges, dams, harbours, water supply systems, waste management systems, airports, roads, tunnels and railways. Graduates, therefore, will be able to integrate technical, planning, organisational, management and financial skills, with an emphasis on those areas as their talents allow.

## Career Opportunities

Opportunities exist in the design, construction, maintenance and management of roads, railways, bridges, buildings, supply of water and electricity, dams and port facilities.

## Study Options

The degree can be combined with Environmental or Mining Engineering in second year. Double degrees are also available.

## Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
		<b>Session</b>	<b>Credit Points</b>
CIVL196	Engineering Computing 1	Autumn	6
ENGG251	Mechanics of Solids	Autumn	6
ENGG252	Engineering Fluid Mechanics	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
CIVL245	Construction Materials	Spring	6
CIVL272	Surveying	Spring	6
ECTE290	Fundamentals of Electrical Engineering	Spring	6
EESC252	Geology for Engineers 1	Spring	6
<b>Year 3</b>			
		<b>Session</b>	<b>Credit Points</b>
CIVL311	Structural Design 1	Autumn	6
CIVL352	Structures 1	Autumn	6
CIVL361	Geomechanics 1	Autumn	6
CIVL392	Engineering Computing 2	Autumn	6
CIVL314	Structural Design 2	Spring	6
CIVL322	Hydraulics and Hydrology	Spring	6
CIVL394	Construction	Spring	6
ENGG361	Project and Business Management	Spring	6
<b>Year 4</b>			
		<b>Session</b>	<b>Credit Points</b>
CIVL462	Geomechanics 2	Autumn	6
CIVL489	Roads Engineering	Autumn	6
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
CIVL444	Civil Engineering Design	Spring	6
CIVL454	Structures 2	Spring	6
ENGG452	Thesis A	Annual	12
or			
ENGG453**	Thesis B	Annual	18
ENGG454	Professional Experience		0
plus	1 elective		6
<b>Electives listed below</b>			<b>Credit Points</b>
CIVL415	Structural Design 3		6
CIVL457	Structures 3		6
CIVL463	Geomechanics 3		6
CIVL487	Traffic Engineering		6
CIVL491	Engineering Computing 3		6
CIVL495	Public Health Engineering		6
ECON101	Macroeconomic Essentials for Business		6
ECON111	Introductory Microeconomics		6
ECON215	Microeconomic Theory and Policy		6
EESC210	Social Spaces: Rural and Urban		6
EESC208	Environmental Impact of Societies		6
EESC305	Remote Sensing of the Environment		6
MINE311	Surface Mining and Blasting		6

- All electives may not be available every year - check subject timetable.
- \*\* 18cp thesis is equivalent to the 12cp thesis and one 6cp elective.

## Bachelor of Engineering (Environmental Engineering)

Testamur Title of Degree:	Bachelor of Engineering (Environmental Engineering)
Abbreviation:	BE (Enve)
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	733
UAC Code:	755612
CRICOS Code:	027466K

### Overview / Course Aims

The Environmental Engineering course aims to provide students with broad based knowledge, training, skills and experience in areas required for practice in environmental engineering.

### Career Opportunities

Graduates of this course will be able to work for industry, for government agencies and for engineering consultancies. The range of work that will lead to Ecologically Sustainable Development include: monitoring, analysis, modelling and design to control water, air, noise and soil pollution; recycling and re-use of water; renewable energy technologies, including solar, wind, wave and biomass; treatment and disposal of solid and hazardous waste; site remediation; and cleaner production and industrial waste management.

### Study Options

The degree can be combined with Civil or Mining Engineering in second year. Double degrees are also available.

### Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
CIVL196	Engineering Computing 1	Autumn	6
ENGG251	Mechanics of Solids	Autumn	6
ENGG252	Engineering Fluid Mechanics	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
CHEM214	Analytical and Environmental Chemistry	Spring	6
CIVL272	Surveying	Spring	6
ENVE220	Water Quality Engineering	Spring	6
ENVE221	Air and Noise Pollution	Spring	6
<b>Year 3</b>			
BIOL352	Biology for Environmental Engineers	Autumn	6
CIVL361	Geomechanics 1	Autumn	6
ENVE320	Environmental Engineering Design 1	Autumn	6
plus	1 elective	Autumn	6
CIVL322	Hydraulics and Hydrology	Spring	6
ENGG361	Project and Business Management	Spring	6
ENVE311	Pollution Control and Cleaner Production	Spring	6
ENVE321	Solid and Hazardous Waste Management	Spring	6
<b>Year 4</b>			
CIVL462	Geomechanics 2	Autumn	6
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
ENVE410	Site Remediation	Spring	6
ENVE421	Environmental Design 2	Spring	6



## Course Information

ENGG452	Thesis A	Annual	12
or			
ENGG453**	Thesis B	Annual	18
ENGG454	Professional Experience		0
plus	2 electives	Autumn/Spring	12

### Electives listed below\*

ACCY100	Accounting 1A	6
CIVL392	Engineering Computing 2	6
CIVL394	Construction	6
CIVL463	Geomechanics 3	6
CIVL489	Roads Engineering	6
ECON101	Macroeconomic Essentials for Business	6
ECON111	Introductory Microeconomics	6
ENVE420	Water Engineering	6
ENVE422	Membrane Science and Technology	6
EESC208	Environmental Impact of Societies	6
EESC303	Fluvial Geomorphology, Sedimentology and River Management	6
EESC304	Geographical Information Systems	6
EESC305	Remote Sensing of the Environment	6
EESC252	Geology for Engineers 1	6
LAW100	Law in Society	6
LAW210	Contract Law	8
LAW334	Environmental Law	6
MECH341	Thermodynamics	6
MECH343	Heat Transfer and Gas Dynamics	6
MECH438	Sustainable Transport and Engine Technologies	6
STS216	Environment in Crisis: Technology and Society	6
STS376	The Politics of Risk	6
STS399	Research Topics in Science and Technology Studies	6

- \*Electives may not be available every year – check subject timetable. Students are encouraged to take MECH378 as the third year elective and ENVE420 as one of the fourth year electives.
- \*\* 18cp thesis is equivalent to the 12cp thesis and one 6cp elective.

## Bachelor of Engineering (Materials Engineering)

Testamur Title of Degree:	Bachelor of Engineering (Materials Engineering)
Abbreviation:	BE (Matl)
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	732
UAC Code:	755613
CRICOS Code:	027466K

### Overview / Course Aims

The objective of the Materials Engineering course is to provide students with the knowledge and skills necessary for the design, development, production and application of engineering materials for gainful use by society. This objective is achieved through detailed study of the relationships between the structure, processing and properties of materials. The course is also designed to provide training in effective communication, management and teamwork skills, and the environmental sensitivity required of modern engineers.

### Career Opportunities

Opportunities exist in a wide range of industries from materials processing industries (steel, copper, aluminium, plastics, ceramics and composites) through to manufacturing and product design. Many graduates work in engineering consultancy companies dealing with failure analysis, corrosion, life-time assessment, and materials testing. Other graduates pursue a research career, as materials technology (and similar areas such as nanotechnology) is recognised worldwide as a key research strength and driver of economic prosperity. Many research opportunities exist in universities and government (eg. CSIRO) and private sector laboratories both in Australia and overseas.

## Study Options

In the final year, students can choose a series of elective subjects from a number of specialist areas: Materials Science and Technology, Metallurgical Processing or Materials Manufacturing. Double degrees are also available.

## Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
MATE201	Structure and Properties of Materials	Autumn	6
MATE202	Thermodynamics and Phase Equilibria	Autumn	6
MATE291	Engineering Computing and Laboratory Skills	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE290	Fundamentals of Electrical Engineering	Spring	6
MATE203	Phase Transformations	Spring	6
MATE204	Mechanical Behaviour and Fracture	Spring	6
MATE304	Transport Phenomena in Materials Processing	Spring	6
<b>Year 3</b>			
ENGG251	Mechanics of Solids	Autumn	6
MATE301	Engineering Alloys	Autumn	6
MATE302	Polymeric Materials	Autumn	6
MATE391	Materials Testing Techniques	Autumn	6
ENGG361	Project and Business Management	Spring	6
MATE303	Ceramics, Glass and Refractories	Spring	6
MATE305	Primary Materials Processing	Spring	6
MATE306	Degradation of Engineering Materials	Spring	6
<b>Year 4</b>			
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
MATE401	Selection of Materials in Engineering Design	Autumn	6
MATE402	Secondary Materials Processing	Spring	6
ENGG452	Thesis A	Annual	12
or			
ENGG453**	Thesis B	Annual	18
ENGG454	Professional Experience		0
plus	3 electives	Autumn/Spring	18
<b>Electives listed below*</b>			
<b>Materials Science and Technology</b>			
MATE411	Advanced Materials and Processing		6
MATE412	Electronic Materials		6
MATE413	Structural Characterisation Techniques		6
MATE433	Surface Engineering		6
<b>Metallurgical Processing</b>			
MINE421	Minerals Beneficiation		6
MATE421	Metallurgical Process Engineering		6
MATE422	Iron and Steelmaking		6
MATE432	Mechanical and Thermal Processing		6
<b>Materials Manufacturing</b>			
ENGG434	Introduction to Materials Welding and Joining		6
MATE431	Sheet Metal Processing		6
MATE432	Mechanical and Thermal Processing		6
MATE433	Surface Engineering		6

- \* Electives may not be available every year - check subject timetable.
- \*\* 18cp thesis is equivalent to the 12cp thesis and one 6cp elective.

## Bachelor of Engineering (Mechanical Engineering)

Testamur Title of Degree:	Bachelor of Engineering (Mechanical Engineering)
Abbreviation:	BE(Mech)
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	723
UAC Code:	755614
CRICOS Code:	027466K

## Overview / Course Aims

The aim of this course is to give high quality academic training in mechanical engineering and to produce graduates with the core skills, knowledge and attributes required to practice as professional engineers. These required graduate skills/attributes are transferable to a wide range of careers and include: ability to formulate and solve problems; a creative approach to design and synthesis; excellent oral and written communication skills; ability to work effectively in teams; appreciation of the environmental, social and business contexts of Mechanical Engineering; independent and self-motivated approach; understanding and commitment to lifelong learning; and in-depth technical competence in the Mechanical Engineering discipline.

## Career Opportunities

Mechanical Engineering has the broadest scope of all the branches of engineering, and graduates in this field have the core skills to adapt to other fields of engineering. It includes many exciting fields such as advanced manufacturing, metal forming technology, robotics, control of systems, computer aided design and manufacturing, air conditioning, bio-mechanics, powder technology and bearing dynamics. The degree covers a wide range of technical subjects including engineering computing and instrumentation, workshop practice, mechanical engineering design, control of machines and processes, process design and analysis, manufacturing process analysis, manufacturing systems, sustainable energy, transport and engine technologies, dynamics of engineering systems, bulk solids handling technology, fluid power, heat transfer and aerodynamics. Design innovation and project management are important aspects of mechanical engineering. The highlight of the course is the final year thesis, which requires each student to complete a major engineering project in a field of their choice or in research projects funded by government and/or industry.

## Study Options

Students can select electives from a number of specialist areas in their final year including: Sustainable Energy and Engineering Systems, Manufacturing Engineering, Applied Mechanics, and Bulk Materials Handling. The list of electives on offer in any one year varies somewhat, depending on staff availability and other factors. Double degrees are also available.

## Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
MECH152	Engineering Computing, Instrumentation and Workshop Practice	Autumn	6
ENGG251	Mechanics of Solids	Autumn	6
ENGG252	Engineering Fluid Mechanics	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE290	Fundamentals of Electrical Engineering	Spring	6
MECH201	Engineering Analysis	Spring	6
MECH215	Fundamentals of Machine Component Design	Spring	6
MECH226	Machine Dynamics	Spring	6

**Year 3**

MECH321	Dynamics of Engineering Systems	Autumn	6
MECH341	Thermodynamics	Autumn	6
MECH372	Solids Handling and Process Engineering	Autumn	6
MECH382	Manufacturing Engineering Principles	Autumn	6
ENGG361	Project and Business Management	Spring	6
MECH311	Mechanical Engineering Design	Spring	6
MECH343	Heat Transfer and Aerodynamics	Spring	6
MECH365	Control of Machines and Processes	Spring	6

**Year 4**

ENGG461	Project Management and Human Factors in Engineering	Autumn	6
ENGG452	Thesis A	Annual	12
or ENGG453**	Thesis B	Annual	18
ENGG454	Professional Experience		0
plus Electives*	5 electives	Autumn/Spring	30

**Sustainable Energy and Engineering Systems**

MECH378	Sustainable Energy Technologies	6
MECH442	Sustainable Energy in Buildings	6
MECH474	Systems Engineering and Life Cycle Management	6
MECH479	Sustainable Transport and Engine Technologies	6

**Applied Mechanics**

MECH417	Biomedical Engineering	6
MECH418	Mechanical Behaviour of Engineering Materials	6
MECH419	Finite Element Methods in Engineering	6
MECH420	Engineering Stress Analysis	6
MECH430	Automotive Dynamics	6
MECH431	Computational Fluid Dynamics	6
MECH438	Fluid Power	6

**Bulk Materials Handling**

MECH426	Storage and Flow of Bulk Solids	6
MECH427	Mechanical Conveying of Bulk Solids	6
MECH428	Pneumatic Conveying and Dust Control	6
MECH429	Physical Processing of Bulk Solids	6

**Manufacturing**

MECH409	Micro/Nano Robotic Systems	6
MECH421	Manufacturing Process Analysis	6
MECH422	Design and Analysis of Manufacturing Systems	6
MECH423	Design for Manufacturing	6
MECH424	Managing Manufacturing Activities	6
MECH468	Computer Control of Machines and Processes	6
ENGG434	Materials Welding and Joining	6
MECH487	Systems Analysis for Maintenance Management	6
MECH488	Introduction to Condition Monitoring in Mechanical Engineering	6
MECH489	Maintenance Management	6
ECTE494	Robotics	6

- \* Not all electives may be available each year - check subject timetable. Electives may be taken in other departments, subject to written approval by the Discipline Adviser (maximum of two for full-time and one for part-time students).
- \*\* 18cp thesis is equivalent to the 12cp thesis and one 6cp elective.

**Bachelor of Engineering (Mechatronics)**

Testamur Title of Degree:	Bachelor of Engineering (Mechatronic Engineering)
Abbreviation:	BE(Tron)
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	759
UAC Code:	755616
CRICOS Code:	027466K

## Overview / Course Aims

Mechatronics is the combination of Mechanical, Electrical and Computer technologies. It is a relatively new field of engineering with many exciting developments such as internet control of machines, autonomous robots and engine management systems.

In addition, the aim of the program is to produce graduates with the core skills, knowledge and attributes that will help them excel as professional engineers. These skills and attributes include: the ability to formulate and solve problems; a creative approach to design and synthesis; excellent oral and written communication skills; ability to work effectively in teams; appreciation of the environmental, social and business contexts of Engineering; independent and self-motivated approach; understanding and commitment to lifelong learning; and in-depth technical competence in the field of Mechatronic Engineering.

## Career Opportunities

Opportunities exist in the rapidly developing fields of digital electronics, manufacturing, information technology and robotics.

## Study Options

Double degrees are also available.

## Course Program

Subject Year 1		Session	Credit Points
CSCI1191	Programming for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ECTE101	Electrical Engineering 1	Spring	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
<b>Year 2</b>			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
ENGG251	Mechanics of Solids	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
MECH215	Fundamentals of Machine Component Design	Spring	6
MECH 226	Machine Dynamics	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 3</b>			
ECTE313	Electronics	Annual	6
ECTE371	Mechatronics Design	Annual	6
ECTE344	Control Theory	Autumn	6
MECH382	Manufacturing Engineering Principles	Autumn	6
plus	1 elective	Autumn	6
ECTE301	Digital Signal Processing 1	Spring	6
ECTE333	Digital Hardware 2	Spring	6
MECH311	Mechanical Engineering Design	Spring	6
<b>Year 4</b>			
ECTE323	Power Engineering 2	Autumn	6
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
MECH440	Fluid and Heat Transfer	Autumn	6
ECTE494	Robotics	Spring	6
ENGG452	Thesis A	Annual	12
or			
ENGG453**	Thesis B	Annual	18
or			
ECTE457	Thesis	Annual	18
ENGG454	Professional Experience		0
Plus	2 electives*	Spring	12

\* Electives are chosen from the list of electives on offer in the Faculties of Engineering and Informatics. The final year study program is to be determined in consultation with the Discipline Adviser.

\*\* 18cp thesis is equivalent to the 12cp thesis and one 6cp elective.

## Bachelor of Engineering (Mining Engineering)

Testamur Title of Degree:	Bachelor of Engineering (Mining Engineering)
Abbreviation:	BE (Mine)
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	724
UAC Code:	755615
CRICOS Code:	027466K

### Overview / Course Aims

The Mining Engineering course aims to provide students with broad-based knowledge, training, skills and experience in areas required for practice in mining engineering. Upon satisfactory completion of the course students should be able to practice in areas requiring skills for mine planning and design, rock excavation, water and gas drainage, and mine environment control. Graduates therefore, will be able to integrate technical, planning, organisational, management and financial skills with an emphasis on those areas as their talents allow.

### Career Opportunities

Graduates of this course will be able to work for mines, government agencies and for engineering consultancies. Opportunities exist in the design and management of mines as well as mineral production.

### Study Options

The degree can be combined with Environmental or Civil Engineering in second year. Double degrees are also available.

### Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
CIVL196	Engineering Computing	Autumn	6
ENGG251	Mechanics of Solids	Autumn	6
ENGG252	Engineering Fluid Mechanics	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
MINE221	Underground Coal Mining	Autumn	6
CIVL272	Surveying	Spring	6
ECTE290	Fundamentals of Electrical Engineering	Spring	6
EESC252	Geology for Engineers 1	Spring	6
<b>Year 3</b>			
CIVL361	Geomechanics 1	Autumn	6
MINE312	Mine Ventilation	Autumn	6
plus	1 elective	Autumn	6
MINE311	Surface Mining and Blasting	Spring	6
ENGG361	Project and Business Management	Spring	6
EESC306	Resources and Environments	Spring	6
MINE321	Underground Metal Mining	Spring	6
MINE323	Mining Geomechanics	Spring	6

**Year 4**

ENGG461	Project Management and Human Factors in Engineering	Autumn	6
MINE411	Health and Safety in Mines	Autumn	6
MINE412	Mining Economics	Autumn	6
MINE421	Minerals Beneficiation	Autumn	6
MINE422	Mine Planning and Development	Spring	6
MINE434	Special Topics in Mining Engineering	Spring	6
plus	1 elective	Spring	6
ENGG452	Thesis A	Annual	12
or			
ENGG453**	Thesis B	Annual	18
ENGG454	Professional Experience		0
<b>Electives listed below*</b>			
CIVL392	Engineering Computing 2		6
ECON101	Macroeconomic Essentials for Business		6
ECON111	Introductory Microeconomics		6
ECON215	Microeconomic Theory and Policy		6
MINE431	Mine Water		6
MINE433	Geostatistical Ore Reserve Estimation		6
MINE438	Environmental Impact of Minerals Operation		6

- \* Electives may not be available every year - check subject timetable.
- \*\* 18cp thesis is equivalent to the 12cp thesis and one 6cp elective.

**Bachelor of Engineering (Civil and Mining Engineering)**

Testamur Title of Degree:	Bachelor of Engineering (Civil and Mining Engineering)
Abbreviation:	BE(CIMI)
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	246
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	Entry Year 2 and 65+ WAM
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	726
UAC Code:	NA
CRICOS Code:	006984F

**Overview / Course Aims**

Refer to the descriptions for both the Civil and Mining Engineering programs above.

**Course Program**

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
CIVL196	Engineering Computing 1	Autumn	6
ENGG251	Mechanics of Solids	Autumn	6
ENGG252	Engineering Fluid Mechanics	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
MINE221	Underground Coal Mining	Autumn	6
CIVL245	Construction Materials	Spring	6
CIVL272	Surveying	Spring	6
ECTE290	Fundamentals of Electrical Engineering	Spring	6

EESC252	Geology for Engineers 1	Spring	6
<b>Year 3</b>			
CIVL361	Geomechanics 1	Autumn	6
CIVL392	Engineering Computing 2	Autumn	6
MINE312	Mine Ventilation	Autumn	6
CIVL394	Construction	Spring	6
EESC306	Resources and Environments	Spring	6
ENGG361	Project and Business Management	Spring	6
MINE321	Underground Metal Mining	Spring	6
MINE311	Surface Mining and Blasting	Spring	6
<b>Year 4</b>			
CIVL311	Structural Design 1	Autumn	6
CIVL352	Structures 1	Autumn	6
MINE411	Health and Safety in Mines	Autumn	6
MINE412	Mining Economics	Autumn	6
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
CIVL314	Structural Design 2	Spring	6
CIVL322	Hydraulics and Hydrology	Spring	6
MINE323	Mining Geomechanics	Spring	6
MINE421	Minerals Beneficiation	Spring	6
<b>Year 5</b>			
CIVL462	Geomechanics 2	Autumn	6
CIVL489	Roads Engineering	Autumn	6
CIVL444	Civil Engineering Design	Spring	6
CIVL454	Structures 2	Spring	6
MINE422	Mine Planning and Development	Spring	6
ENGG452	Thesis A	Annual	12
or			
ENGG453*	Thesis B	Annual	18
ENGG454	Professional Experience		0

\* 18cp thesis is equivalent to the 12cp thesis and one 6cp elective.

## Bachelor of Engineering (Civil and Environmental Engineering)

Testamur Title of Degree:	Bachelor of Engineering (Civil and Environmental Engineering)
Abbreviation:	BE (CIEV)
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	240
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	Entry Year 2 and 65+ WAM
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	721A
UAC Code:	NA
CRICOS Code:	006984F

### Overview/Course Aims

Refer to the descriptions for both the Civil and Environmental Engineering programs above.

### Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
CIVL196	Engineering Computing 1	Autumn	6



## Course Information

ENGG251	Mechanics of Solids	Autumn	6
ENGG252	Engineering Fluid Mechanics	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
CIVL245	Construction Materials	Spring	6
CIVL272	Surveying	Spring	6
EESC252	Geology for Engineers 1	Spring	6
ENVE220	Water Quality Engineering	Spring	6

### Year 3

CIVL361	Geomechanics 1	Autumn	6
CIVL392	Engineering Computing 2	Autumn	6
BIOL352	Biology for Environmental Engineers	Autumn	6
ENVE311	Pollution Control and Cleaner Production	Autumn	6
CHEM214	Analytical and Environmental Chemistry	Spring	6
ECTE290	Fundamentals of Electrical Engineering	Spring	6
ENVE221	Air and Noise Pollution	Spring	6
ENGG361	Project and Business Management	Spring	6

### Year 4

CIVL311	Structural Design 1	Autumn	6
CIVL352	Structures 1	Autumn	6
ENVE320	Environmental Engineering Design 1	Autumn	6
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
CIVL314	Structural Design 2	Spring	6
CIVL322	Hydraulics and Hydrology	Spring	6
CIVL394	Construction	Spring	6
ENVE321	Solid and Hazardous Waste Management	Spring	6

### Year 5

CIVL489	Roads Engineering	Autumn	6
CIVL454	Structures 2	Autumn	6
CIVL444	Civil Engineering Design	Spring	6
CIVL462	Geomechanics 2	Spring	6
ENVE410	Site Remediation	Spring	6
ENVE421	Environmental Design 2	Spring	6
ENGG452	Thesis A	Annual	12
or			
ENGG453*	Thesis B	Annual	18
ENGG454	Professional Experience		0

\*18cp thesis is equivalent to the 12cp thesis and one 6cp elective

## Bachelor of Engineering (Mining and Environmental Engineering)

Testamur Title of Degree:	Bachelor of Engineering (Mining and Environmental Engineering)
Abbreviation:	BE (MIEV)
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	246
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	Entry Year 2 and 65+ WAM
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	724A
UAC Code:	NA
CRICOS Code:	006984F

## Overview / Course Aims

Refer to the descriptions for both the Environmental and Mining Engineering programs above.

## Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
ENGG101	Foundations of Engineering	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6

MATH142 or MATH188 PHYS143	Mathematics 1C Part 2 Mathematics 1A Part 2 Physics for Engineers	Spring Spring Spring	6 6 6
<b>Year 2</b>			
CIVL196	Engineering Computing 1	Autumn	6
ENGG251	Mechanics of Solids	Autumn	6
ENGG252	Engineering Fluid Mechanics	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE290	Fundamentals of Electrical Engineering	Spring	6
ENVE220	Water Quality Engineering	Spring	6
EESC252	Geology for Engineers 1	Spring	6
MINE221	Underground Coal Mining	Spring	6
<b>Year 3</b>			
CIVL361	Geomechanics 1	Autumn	6
CIVL392	Engineering Computing 2	Autumn	6
BIOL352	Biology for Environmental Engineers	Autumn	6
ENVE311	Pollution Control and Cleaner Production	Autumn	6
CHEM214	Analytical and Environmental Chemistry	Spring	6
CIVL272	Surveying	Spring	6
ENVE221	Air and Noise Pollution	Spring	6
EESC306	Resources and Environments	Spring	6
<b>Year 4</b>			
ENVE320	Environmental Engineering Design 1	Autumn	6
MINE311	Surface Mining and Blasting	Autumn	6
MINE411	Health and Safety in Mines	Autumn	6
ENGG361	Project and Business Management	Spring	6
ENVE321	Solid and Hazardous Waste Management	Spring	6
CIVL322	Hydraulics and Hydrology	Spring	6
MINE321	Underground Metal Mining	Spring	6
MINE323	Mining Geomechanics	Spring	6
<b>Year 5</b>			
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
MINE312	Mine Ventilation	Autumn	6
MINE412	Mining Economics	Autumn	6
MINE421	Minerals Beneficiation	Autumn	6
ENVE410	Site Remediation	Spring	6
ENVE421	Environmental Design 2	Spring	6
MINE422	Mine Planning and Development	Spring	6
ENGG452	Thesis A	Annual	12
Or			
ENGG453*	Thesis B	Annual	18
ENGG454	Professional Experience		0

\* 18cp thesis is equivalent to the 12cp thesis and one 6cp elective

## Bachelor of Medical and Radiation Physics Advanced (Honours)

Testamur Title of Degree:	Bachelor of Medical and Radiation Physics Advanced (Honours)
Abbreviation:	BMRPA
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	93
Assumed Knowledge:	Any two units of English plus Physics and Mathematics
Recommended Studies:	English Advanced, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	784
UAC Code:	757616
CRICOS Code:	032584F

### Overview / Course Aims

The Bachelor of Medical and Radiation Physics Advanced (Honours) degree is designed to produce graduates (with a strong background in physics) with the specialist skills in Medical Radiation Physics necessary to find employment in hospitals, research or industry.

Students will gain knowledge in areas relating to nuclear medicine, radiation physics, detector and

instrumentation physics and data analysis. Graduates working in the area require both a theoretical background and practical skills in physics with an emphasis on advanced knowledge and practice in specialist areas applicable to medical physics.

Professional medical physicists from major hospitals in the State will deliver key lectures and practical work as well as co-supervising thesis work. Students will find that they will move easily into employment and/or postgraduate work in this specialised area.

### Course Requirements

All students must complete the required number of credit points and satisfy all course requirements for the degree - refer to course structure below. The Bachelor of Medical and Radiation Physics Advanced (Honours) normally takes four years to complete. All students must take particular notice of the Course Rules regarding minimum rate of progress.

The formal contact hours, methods of teaching and learning and forms of assessment vary from subject to subject. Details will be provided to students at the commencement of each subject by the subject coordinator. Students should attend all classes including lectures, tutorials and laboratory classes.

### Honours

This four-year degree will be awarded at either Pass or Honours level, depending on the student's performance throughout the degree.

### Professional Recognition

The Bachelor of Medical and Radiation Physics Advanced (Honours) degree conforms to the requirements for membership of the Australian Institute of Physics.

### Further Studies Options

Graduates can apply for entry to the Master of Science - Research or PhD.

### Career Opportunities

Opportunities exist as medical physicists, researchers, occupational health and safety work and in radiation research and development.

### Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
BMS101	Systemic Anatomy	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals Physics A	Autumn	6
BMS112	Human Physiology	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals Physics B	Spring	6
plus	2 electives (6cp each)		12
<b>Year 2</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH253	Linear Algebra	Autumn	4
PHYS205	Advanced Modern Physics	Autumn	6
PHYS235	Mechanics and Thermodynamics	Autumn	6
MATH291	Differential Equations	Spring	3
PHYS215	Vibrations, Waves and Optics	Spring	6
PHYS225	Electromagnetism and Optoelectronics	Spring	6
PHYS255	Radiation Physics	Spring	6
plus	1 elective		6
<b>Year 3</b>			
PHYS305	Quantum Mechanics	Autumn	6
PHYS325	Electromagnetism	Autumn	6
PHYS365	Detection of Radiation: Neutrons, Electrons and X-Rays	Autumn	6
PHYS366	Physics of Radiotherapy	Autumn	6
PHYS375	Nuclear Physics	Spring	6
PHYS385	Statistical Mechanics	Spring	6
PHYS396	Electronic Materials	Spring	6
plus	1 elective		6
<b>Year 4</b>			
PHYS451	Nuclear Medicine	Annual	8
PHYS452	Medical Imaging	Annual	8
PHYS457	Research Project	Annual	24
PHYS453	Radiobiology and Radiation Protection	Spring	8

## Bachelor of Medical and Radiation Physics

Testamur Title of Degree:	Bachelor of Medical and Radiation Physics
Abbreviation:	BMRP
Home Faculty:	Faculty of Engineering
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	75
Assumed Knowledge:	Any two units of English plus Physics and Mathematics
Recommended Studies:	English Advanced, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	TBA
UAC Code:	757616
CRICOS Code:	052461G

### Overview / Course Aims

The Bachelor of Medical and Radiation Physics degree is designed to produce graduates (with a strong background in physics) with the specialist skills in Medical Radiation Physics necessary to find employment in hospitals, research or industry.

Students will gain knowledge in areas relating to nuclear medicine, radiation physics, detector and instrumentation physics, and data analysis. Graduates working in the area require both a theoretical background and practical skills in physics, with an emphasis on advanced knowledge and practice in specialist areas applicable to medical physics.

Professional medical physicists from major hospitals in the State will deliver key lectures and practical work as well as co-supervising thesis work. Students will find that they will move easily into employment and/or postgraduate work in this specialised area.

### Course Requirements

All students must complete the required number of credit points and satisfy all course requirements for the degree – refer to course structure below. The Bachelor of Medical and Radiation Physics normally takes three years to complete. All students must take particular notice of the Course Rules regarding minimum rate of progress.

The formal contact hours, methods of teaching and learning and forms of assessment vary from subject to subject. Details will be provided to students at the commencement of each subject by the subject coordinator. Students should attend all classes including lectures, tutorials and laboratory classes.

### Professional Recognition

The Bachelor of Medical and Radiation Physics degree conforms to the requirements for membership of the Australian Institute of Physics.

### Further Studies Options

Graduates can apply for entry to the Master of Science – Research or PhD.

### Career Opportunities

Opportunities exist as medical physicists, researchers, occupational health and safety work and in radiation research and development.

### Course Program

Subject	Session	Credit Points
<b>Year 1</b>		
BMS101 Systemic Anatomy	Autumn	6
MATH187 Mathematics 1A Part 1	Autumn	6
PHYS141 Fundamentals Physics A	Autumn	6
BMS112 Human Physiology	Spring	6
MATH188 Mathematics 1A Part 2	Spring	6
PHYS142 Fundamentals Physics B	Spring	6
plus 2 electives (6cp each)		12
<b>Year 2</b>		

MATH201	Multivariate and Vector Calculus	Autumn	6
MATH253	Linear Algebra	Autumn	4
PHYS205	Advanced Modern Physics	Autumn	6
PHYS235	Mechanics and Thermodynamics	Autumn	6
MATH291	Differential Equations	Spring	3
PHYS215	Vibrations, Waves and Optics	Spring	6
PHYS225	Electromagnetism and Optoelectronics	Spring	6
PHYS255	Radiation Physics	Spring	6
plus	1 elective		6
<b>Year 3</b>			
PHYS305	Quantum Mechanics	Autumn	6
PHYS325	Electromagnetism	Autumn	6
PHYS365	Detection of Radiation: Neutrons, Electrons and X-Rays	Autumn	6
PHYS366	Physics of Radiotherapy	Autumn	6
PHYS375	Nuclear Physics	Spring	6
PHYS385	Statistical Mechanics	Spring	6
PHYS396	Electronic Materials	Spring	6
plus	1 elective		6

## Bachelor of Science (Materials)

Testamur Title of Degree:	Bachelor of Science (Materials)
Abbreviation:	BSc (Materials)
Home Faculty:	Faculty of Engineering
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	75
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	HSC Mathematics Ext. 1 plus Chemistry or Physics
UOW Course Code:	757
UAC Code:	757636
CRICOS Code:	031274F

### Overview / Course Aims

The objective of the Materials Science course is to provide the scientific knowledge and technical skills necessary for a successful materials based career in areas such as quality control and laboratory testing, materials process control, and research and development in government and private sector laboratories. It also provides an ideal basis for those who wish to pursue a career in secondary teaching.

The core materials subjects involve detailed study of the structure of properties of metals, ceramics and polymers.

### Course Requirements

All students must complete the required number of credit points and satisfy all course requirements for the degree - refer to course structures below. The Bachelor of Science (Materials) normally takes three years to complete. All students must take particular notice of the Course Rules regarding minimum rate of progress.

The formal contact hours, methods of teaching and learning and forms of assessment vary from subject to subject. Details will be provided to students at the commencement of each subject by the subject coordinator. Students should attend all classes including lectures, tutorials and laboratory classes.

### Study Options

Electives in second and third years are normally selected to provide a coherent minor in a particular field, eg. Materials, Chemistry, Science and Technology Studies or Engineering. Suggested elective programs are listed below. Students should consult their Course Adviser when choosing elective subjects.

### Honours

Students with a good academic record are encouraged to proceed to an Honours year, a fourth year of study providing training in independent research.

## Advanced Standing

Applicants holding relevant TAFE Diplomas and Advanced Diplomas with a consistently good performance will normally be granted 48 credit points (one year) of advanced standing. Students are advised to take the maximum number of mathematics and science units available in their TAFE course.

## Further Studies Options

Graduates can apply for entry to Honours in Materials or Master of Science - Research.

## Career Opportunities

Opportunities exist in teaching, industry, administration, scientific communication and research.

## Course Program

Subject	Session	Credit Points
<b>Year 1</b>		
CHEM101 Chemistry 1A	Autumn	6
ENGG153 Engineering Materials	Autumn	6
MATH141 Mathematics 1C Part 1	Autumn	6
or		
MATH187 Mathematics 1A Part 1	Autumn	6
PHYS141 Fundamentals Physics A	Autumn	6
CHEM102 Chemistry 1B	Spring	6
ENGG154 Engineering Design and Innovation	Spring	6
MATH142 Mathematics 1C Part 2	Spring	6
or		
MATH188 Mathematics 1A Part 2	Spring	6
PHYS142 Fundamentals Physics B	Spring	6
<b>Year 2</b>		
MATE201 Structure and Properties of Materials	Autumn	6
MATE202 Thermodynamics and Phase Equilibria	Autumn	6
MATE291 Engineering Computing and Laboratory Skills	Autumn	6
MATE203 Phase Transformation	Spring	6
MATE204 Mechanical Behaviour	Spring	6
plus 3 electives		18
<b>Year 3</b>		
MATE301 Engineering Alloys	Autumn	6
MATE302 Polymeric Materials	Autumn	6
MATE391 Materials Testing	Autumn	6
MATE303 Ceramics, Glass and Refractories	Spring	6
plus 3 electives		18
<b>Year 4 (Honours)</b>		
MATE406 Research Project	Annual	24
plus 4 electives		
<b>Materials Electives</b>		
MATE411 Advanced Materials and Processing		6
MATE412 Electronic Materials		6
MATE305 Primary Materials Processing		6
MATE402 Secondary Materials Processing		6
MATE413 Structural Characterisation Techniques		6
<b>Chemistry Electives</b>		
CHEM211 Inorganic Chemistry II		6
CHEM212 Organic Chemistry II		6
CHEM314 Instrumental Analysis		8
CHEM213 Molecular Structure, Reactivity and Change		6
CHEM214 Analytical and Environmental Chemistry		6
CHEM311 Inorganic Chemistry III		8
CHEM321 Organic Synthesis and Reactivity		8
<b>Science and Technology Studies Electives</b>		
STS100 Social Aspects of Science and Technology		6
STS215 Globalisation: Science, Technology and Progress		6
STS112 The Scientific Revolution: History, Philosophy and Politics of Science 1		6
STS376 Risk Assessment, Health and Safety		6
STS216 Environment in Crisis: Technology and Society		6
STS229 Scientific and Technological Controversy		6

## Bachelor of Science (Photonics)

Testamur Title of Degree:	Bachelor of Science (Photonics)
Abbreviation:	BSc (Photonics)
Home Faculty:	Faculty of Engineering
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	HSC Mathematics Ext. 1 plus Chemistry or Physics
UOW Course Code:	757
UAC Code:	757577
CRICOS Code:	031274F

### Overview / Course Aims

Photonics is a rapidly developing area associated with the development of detectors, light sources and optical fibres to support research and development in a wide range of industries including optoelectronics, telecommunications and defence. This degree provides students with training, which combines skills in experimental and theoretical physics and electronics with a strong background in optics, electronics and computing necessary to begin a career in the photonics industry. It is structured around the existing core of Physics subjects.

### Course Requirements

All students must complete the required number of credit points and satisfy all course requirements for the degree - refer to course structures below.

The Bachelor of Science (Photonics) normally takes three years to complete. All students must take particular notice of the Course Rules regarding minimum rate of progress.

The formal contact hours, methods of teaching and learning and forms of assessment vary from subject to subject. Details will be provided to students at the commencement of each subject by the subject coordinator. Students should attend all classes including lectures, tutorials and laboratory classes.

### Honours

Students with a good academic record are encouraged to proceed to an Honours year, a fourth year of study providing training in independent research.

### Options

Graduates can apply for entry to Honours in Physics, then Master of Science - Research, or PhD.

### Career Opportunities

Opportunities exist in teaching, administration, scientific communication, computing and research.

### Photonics Course Program

Subject	Session	Credit Points
<b>Year 1</b>		
CHEM103	Chemistry 1A	6
CSCI114	Procedural Programming*	6
MATH187	Mathematics 1A Part 1	6
PHYS141	Fundamentals Physics A	6
ECTE172	Introduction to Circuits and Devices	6
ECTE182	Internet Technology 1	6
MATH188	Mathematics 1A Part 2	6
PHYS142	Fundamentals Physics B	6
* Three electives are required, these are examples		
<b>Year 2</b>		

MATH201	Multivariate and Vector Calculus	Autumn	6
MATH253	Linear Algebra	Autumn	4
PHYS205	Advanced Modern Physics	Autumn	6
PHYS235	Mechanics and Thermodynamics	Autumn	6
MATH202	Differential Equations 2	Spring	6
MATH204	Complex Variables and Group Theory	Spring	6
PHYS225	Electromagnetism and Optoelectronics	Spring	6
PHYS262	Vibrations and Waves	Spring	3
PHYS263	Photonics and Communication	Annual	6
<b>Year 3</b>			
ECTE364	Telecommunications Networks 1	Autumn	6
PHYS305	Quantum Mechanics	Autumn	6
PHYS325	Electromagnetism	Autumn	6
PHYS356	Physics of Detectors and Imaging	Autumn	6
PHYS363	Advanced Photonics	Spring	6
PHYS385	Statistical Mechanics	Spring	6
PHYS396	Electronic Materials	Spring	6

## Bachelor of Science (Honours) Advanced Program - Physics

Testamur Title of Degree:	Bachelor of Science (Honours) Advanced Program - Physics
Abbreviation:	BSc (Hons) (Physics)
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	95
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	HSC Mathematics Ext. 1 plus Chemistry or Physics
UOW Course Code:	757A
UAC Code:	757602
CRICOS Code:	031275E

The Advanced Program, designed specifically for high achieving students, offers direct entry into Honours, unlike the normal BSc which delays selection for Honours until the completion of the third year.

It offers a greater degree of flexibility in program design through the possibility of exemptions from some first year subjects; direct entry into some 200 level subjects; the opportunity to undertake individual research subjects at second, third and fourth year level; the opportunity to progress at a faster rate through the use of "fast-tracking" mechanisms; the chance to participate in various enrichment activities and to develop a close association with an appropriate member of one of the Faculty's research teams. In the final year, all students undertake a substantial piece of supervised research in their major discipline together with other required seminar and/or coursework.

Study programs are structured on an individual basis in consultation with the Discipline Adviser. Students are required to fulfil all the normal BSc and Honours requirements and may select their major study program from any of those available from Physics.

## Bachelor of Science (Physics)

Testamur Title of Degree:	Bachelor of Science (Physics)
Abbreviation:	BSc (Physics)
Home Faculty:	Faculty of Engineering
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	75
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	HSC Mathematics Ext. 1 plus Chemistry or Physics
UOW Course Code:	757
UAC Code:	757637
CRICOS Code:	031274F



## Overview / Course Aims

Physics, as one of the fundamental sciences, provides the basis for making, interpreting and extending observations relating to the behaviour and structure of matter. Physics is fundamental to the study of all sciences and has a key role to play in generating and supporting new technologies. Students majoring in Physics study mechanics, thermodynamics, electricity and magnetism, vibrations, waves, optics, and modern, and quantum and statistical mechanics, complemented by a number of advanced mathematics subjects.

## Course Requirements

All students must complete the required number of credit points and satisfy all course requirements for the degree – refer to course structures below. The Bachelor of Science (Physics) normally takes three years to complete. All students must take particular notice of the Course Rules regarding minimum rate of progress.

The formal contact hours, methods of teaching and learning and forms of assessment vary from subject to subject. Details will be provided to students at the commencement of each subject by the subject coordinator. Students should attend all classes including lectures, tutorials and laboratory classes.

## Study Options

Two major programs in Physics are offered:

- i. Basic Major Program in Physics – a basic Physics program, designed with a minimum of compulsory subjects for combining with an array of elective subjects or a second major in another discipline.
- ii. Full Major Program – a full Physics program for students planning to undertake Honours and to pursue a career as a professional physicist.

The two programs are outlined below.

## Honours

Students with a good academic record are encouraged to proceed to Honours year, a fourth year of study providing training in independent research.

## Professional Recognition

The Bachelor of Science (Physics) degree conforms to the requirements for membership of the Australian Institute of Physics.

## Further Studies Options

Graduates can apply for entry to Honours in Physics, and then Master of Science – Research, or PhD.

## Career Opportunities

Opportunities exist in teaching, administration, scientific communication, computing and research.

## Basic Major Program in Physics

Subject		Session	Credit Points
<b>Year 1</b>			
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals Physics A	Autumn	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals Physics B	Spring	6
Plus 4 electives (6cp each)			24
<b>Year 2</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH253	Linear Algebra	Autumn	4
PHYS205	Advanced Modern Physics	Autumn	6
PHYS235	Mechanics and Thermodynamics	Autumn	6
MATH291	Differential Equations	Spring	3
PHYS215	Vibrations, Waves and Optics	Spring	6
PHYS225	Electromagnetism and Optoelectronics	Spring	6
Plus 2 elective (6cp each)			12
<b>Year 3</b>			
PHYS305	Quantum Mechanics	Autumn	6
PHYS325	Electromagnetism	Autumn	6

Plus two of the following subjects:

PHYS335	Classical Mechanics	Autumn	6
PHYS375	Nuclear Physics	Spring	6
PHYS385	Statistical Mechanics	Spring	6
PHYS390	Astrophysics	Spring	6
PHYS396	Electronic Materials	Spring	6

Plus additional 12 cp of subjects taken from the Science or Engineering Schedules.

### Full Major Program in Physics - 108cp

Subject		Session	Credit Points
<b>Year 1</b>			
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals Physics A	Autumn	6
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals Physics B	Spring	6
Plus 4 electives			
<b>Year 2</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH203	Linear Algebra	Autumn	6
PHYS205	Advanced Modern Physics	Autumn	6
PHYS235	Mechanics and Thermodynamics	Autumn	6
MATH291	Differential Equations	Spring	3
MATH293	Complex Variables	Spring	4
PHYS215	Vibrations, Waves and Optics	Spring	6
PHYS225	Electromagnetism and Optoelectronics	Spring	6
PHYS295	Astronomy - Concepts of the Universe	Spring	6
<b>Year 3</b>			
PHYS305	Quantum Mechanics	Autumn	6
PHYS325	Electromagnetism	Autumn	6
PHYS335	Classical Mechanics	Autumn	6
PHYS375	Nuclear Physics	Spring	6
PHYS385	Statistical Mechanics	Spring	6
PHYS390	Astrophysics	Spring	6
PHYS396	Electronic Materials	Spring	6

### Physics Electives

Subject		Session	Credit Points
<b>Year 1</b>			
PHYS131	Physics for the Environmental and Life Sciences A	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
PHYS132	Physics for the Environmental and Life Sciences B	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
PHYS205	Modern Physics	Autumn	6
PHYS235	Mechanics and Thermodynamics	Autumn	6
PHYS206	Project in Physics	Autumn/Spring	6
PHYS215	Vibrations, Waves and Optics	Spring	6
PHYS225	Electromagnetism and Optoelectronics	Spring	6
PHYS255	Radiation Physics	Spring	6
PHYS295	Astronomy - Concepts of the Universe	Spring	6
<b>Year 3</b>			
PHYS305	Quantum Mechanics	Autumn	6
PHYS325	Electromagnetism	Autumn	6
PHYS335	Classical Mechanics	Autumn	6
PHYS365	Detection of Radiation: Neutrons, Electrons and X Rays	Autumn	6
PHYS306	Project in Physics	Autumn/Spring	6
PHYS375	Nuclear Physics	Spring	6
PHYS385	Statistical Mechanics	Spring	6
PHYS390	Astrophysics	Spring	6
PHYS396	Electronic Materials	Spring	6
<b>Year 4</b>			
PHYS405	Honours in Physics	Annual	48
PHYS444	Quantum Mechanics	Annual	8
PHYS446	Solid State Physics	Annual	8
PHYS451	Nuclear Medicine	Annual	8
PHYS452	Medical Imaging	Annual	8
PHYS456	Imaging Physics	Annual	8
PHYS401	Theoretical Mechanics and Electromagnetism	Autumn	8

## Course Information

PHYS457	Research Project	Autumn/Spring	24
PHYS441	Advanced Astrophysics	Spring	4
PHYS453	Radiobiology and Radiation Protection	Spring	8

## Physics Electives

Subjects offered by non-member Departments of the Faculty of Engineering toward the Physics Program:

CSCI103	Algorithms and Problem Solving	6
CSCI114	Procedural Programming	6
CSCI124	Object Programming	6
MATH187	Mathematics 1A Part 1	6
MATH188	Mathematics 1A Part 2	6
MATH141	Mathematics 1C Part 1	6
MATH142	Mathematics 1C Part 2	6
MATH201	Multivariate and Vector Calculus	6
MATH202	Differential Equations 2	6
MATH203	Linear Algebra	6
MATH204	Complex Variables and Group Theory	6
MATH253	Linear Algebra	4
MATH283	Mathematics IIE for Engineers Part 1	6
MATH291	Differential Equations	3
MATH293	Complex Variables	4
STAT231	Probability and Random Variables	6

## Bachelor of Engineering - Bachelor of Arts

Testamur Title of Degree:	Bachelor of Engineering - Bachelor of Arts
Abbreviation:	BE-BA
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	264
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	704
UAC Code:	751302
CRICOS Code:	028394B

## Overview / Course Aims

The Faculties of Arts and Engineering offer double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Arts and Bachelor of Engineering. These courses provide education in a discipline of Engineering, together with a major study in Arts to broaden the knowledge base of the graduate thereby enhancing career prospects. The Engineering courses are accredited by Engineers Australia.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Arts, or the course for the degree of Bachelor of Engineering, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

## Course Requirements - Bachelor of Arts

To qualify for the award of the degree of Bachelor of Arts, a candidate must satisfactorily complete:

- subjects to the value of at least 90 credit points selected from the General Schedule or the Arts Schedule, together with
- subjects to the value of at least 54 credit points prescribed by one of the Engineering programs.

Of the above specified 144 credit points required for the Arts degree:

- at least 72 credit points, including a major study, shall be from subjects listed in the Arts Schedule;
- at least 36 credit points shall be for subjects offered by one or more academic units of the Faculty of Arts; and
- no more than 60 credit points shall be for 100-level subjects.

Students intending to enrol in Japanese must contact the Modern Languages Program Office.

Students undertaking the beginner strand in the Japanese language are required to take 36 credit points in Japanese in the first year of full-time study. Enrolment in Japanese is not recommended for part-time

students.

A candidate who qualifies for award of the degree of Bachelor of Arts, and who satisfies entry requirements, may subsequently enrol in the course for the Honours degree of Bachelor of Arts as set out in the Course Rule 112.

### Course Requirements - Bachelor of Engineering

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credit points, 174 credit points must be Engineering subjects taken from the following:

#### Bachelor of Engineering - Core Subjects

plus the subjects leading to one of these Engineering degrees:

Bachelor of Engineering - Civil Engineering  
 Bachelor of Engineering - Environmental Engineering  
 Bachelor of Engineering - Materials Engineering  
 Bachelor of Engineering - Mechanical Engineering  
 Bachelor of Engineering - Mechatronics  
 Bachelor of Engineering - Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time engineering employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Sub Dean.

### Bachelor of Engineering - Bachelor of Commerce

Testamur Title of Degree:	Bachelor of Engineering - Bachelor of Commerce
Abbreviation:	BE-BCom
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	264
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	727
UAC Code:	751601
CRICOS Code:	001707A

### Overview / Course Aims

The Faculties of Commerce and Engineering offer double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Commerce and Bachelor of Engineering. These courses provide education in a discipline of Engineering, together with a major study in Commerce to broaden the knowledge base of the graduate thereby enhancing career prospects. The Engineering courses are accredited by Engineers Australia.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Commerce, or the course for the degree of Bachelor of Engineering, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

### Course Requirements - Bachelor of Commerce

Candidates are required to complete core subjects and subjects which satisfy the requirements of one of the Commerce majors. Candidates can choose between a number of major and minor combinations. All students must seek advice and approval from the Sub Dean and relevant Head of School before enrolment. Students should be aware that it may not be possible to complete all Commerce programs with the usual 264 credit points required for a double degree.

The following subjects should be substituted with another Commerce major subject on completion of the alternative Engineering subject:

## 1. BUSS110 Introduction to Business Information Systems

**Alternative subjects:**

CIVL196	Engineering Computing 1	6
MECH152	Engineering Computing Instrumentation and Workshop Practice	6
MATE291	Engineering Computing and Laboratory Skills	6
or		
CSCI114	Procedural Programming	6

## 2. COMM121 Quantitative Methods 1

**Alternative subject:**

MATH283	Mathematics 2E for Engineers Part 1	6
---------	-------------------------------------	---

**Course Requirements - Bachelor of Engineering**

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credit points, 174 credit points must be Engineering subjects taken from the following:

**Bachelor of Engineering - Core Subjects**

plus the subjects leading to one of these Engineering degrees:

Bachelor of Engineering - Civil Engineering  
 Bachelor of Engineering - Environmental Engineering  
 Bachelor of Engineering - Materials Engineering  
 Bachelor of Engineering - Mechanical Engineering  
 Bachelor of Engineering - Mechatronics  
 Bachelor of Engineering - Mining Engineering

Students are not permitted to use Commerce subjects to substitute for Engineering electives.

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time engineering employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the Sub Dean.

**Bachelor of Engineering - Bachelor of Computer Science**

Testamur Title of Degree:	Bachelor of Engineering - Bachelor of Computer Science
Abbreviation:	BE-BCompSci
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	264
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	90
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	790
UAC Code:	751609
CRICOS Code:	042540B

**Overview / Course Aims**

The Faculties of Informatics and Engineering offer double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Engineering and Bachelor of Computer Science.

These courses provide education in a discipline of Engineering, together with a major study in Computer Science to broaden the knowledge base of the graduate thereby enhancing career prospects. The Engineering courses are accredited by Engineers Australia.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Computer Science, or the course for the degree of Bachelor of Engineering, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

## Course Requirements - Bachelor of Computer Science

To qualify for the award of the degree of Bachelor of Computer Science, a candidate must satisfactorily complete requirements 1, 2, 4 and 5 of the Bachelor of Computer Science Course Rules.

## Course Requirements - Bachelor of Engineering

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credit points, 174 credit points must be Engineering subjects taken from the following:

### Bachelor of Engineering - Core Subjects

plus the subjects leading to one of these Engineering degrees:

Bachelor of Engineering - Civil Engineering

Bachelor of Engineering - Environmental Engineering

Bachelor of Engineering - Materials Engineering

Bachelor of Engineering - Mechanical Engineering

Bachelor of Engineering - Mechatronics

Bachelor of Engineering - Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time engineering employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Sub Dean.

## Bachelor of Engineering - Bachelor of Mathematics

Testamur Title of Degree:	Bachelor of Engineering - Bachelor of Mathematics
Abbreviation:	BE-BMath
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	264
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	90
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	791
UAC Code:	751610
RICOS Code:	042626G

### Overview / Course Aims

The Faculties of Informatics and Engineering offer double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Engineering and Bachelor of Mathematics. These courses provide education in a discipline of Engineering, together with a major study in Mathematics to broaden the knowledge base of the graduate thereby enhancing career prospects. The Engineering courses are accredited by Engineers Australia.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Mathematics, or the course for the degree of Bachelor of Engineering, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

### Course Requirements - Bachelor of Mathematics

To qualify for the award of the degree of Bachelor of Mathematics, a candidate must satisfactorily complete requirements 1 to 9, excluding 5, of the Bachelor of Mathematics degree rules, including no more than 60 credit points at 100 level.

### Course Requirements - Bachelor of Engineering

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credit points, 174 credit points must be Engineering subjects taken from the following:

### **Bachelor of Engineering - Core Subjects**

plus the subjects leading to one of these Engineering degrees:

Bachelor of Engineering - Civil Engineering  
Bachelor of Engineering - Environmental Engineering  
Bachelor of Engineering - Materials Engineering  
Bachelor of Engineering - Mechanical Engineering  
Bachelor of Engineering - Mechatronics  
Bachelor of Engineering - Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time engineering employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Sub Dean.

## **Bachelor of Engineering - Bachelor of Science**

Testamur Title of Degree:	Bachelor of Engineering - Bachelor of Science
Abbreviation:	BE-BSc
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	264
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	750
UAC Code:	751624
CRICOS Code:	031277C

### **Overview / Course Aims**

The Faculties of Science and Engineering offer double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Engineering and Bachelor of Science. These courses provide education in a discipline of Engineering, together with a major study in Science to broaden the knowledge base of the graduate thereby enhancing career prospects. The Engineering courses are accredited by Engineers Australia.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Science, or the course for the degree of Bachelor of Engineering, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

### **Course Requirements - Bachelor of Science**

To qualify for the award of the degree of Bachelor of Science, a candidate must satisfactorily complete:

- subjects having a value of at least 90 credit points selected from the Science Schedule, which include either a major study prescribed by the Faculty of Science, or a major prescribed by Engineering Physics within the Faculty of Engineering; together with
- subjects having a value of at least 54 credit points prescribed by one of the Engineering programs.

Of the above specified 144 credit points required for the Science degree:

- at least 72 credit points, including a major study, shall be from subjects offered by Academic Units within the Faculty of Science or by Engineering Physics in the Faculty of Engineering; and
- no more than 60 credit points shall be for 100-level subjects.

A candidate who qualifies for award of the degree of Bachelor of Science, and who satisfies entry requirements, may subsequently enrol in the course for the honours degree of Bachelor of Science as set out in the Course Rule 112.

### **Course Requirements - Bachelor of Engineering**

To qualify for the award of the degree of Bachelor of Engineering, a candidate must complete a total of 192 credit points. Of the 192 credit points, 174 credit points must be Engineering subjects taken from the following:

**Bachelor of Engineering - Core Subjects**

plus the subjects leading to one of these Engineering degrees:

Bachelor of Engineering - Civil Engineering  
 Bachelor of Engineering - Environmental Engineering  
 Bachelor of Engineering - Materials Engineering  
 Bachelor of Engineering - Mechanical Engineering  
 Bachelor of Engineering - Mechatronics  
 Bachelor of Engineering - Mining Engineering

A candidate must complete at least 12 weeks of approved professional engineering experience during the course. A part-time candidate in approved full-time engineering employment may be exempted from up to three specified subjects in accordance with the provisions of the Professional Options subjects, thereby enabling the joint course to be completed in a shorter time.

All students must discuss their Engineering program with the relevant Sub Dean.

## **Bachelor of Engineering (Mechanical or Mechatronics) - Bachelor of Science (Exercise Science)**

Testamur Title of Degree:	Bachelor of Engineering - Bachelor of Science
Abbreviation:	BE-BSc
Home Faculty:	Faculty of Engineering
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	264
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	80
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	Physics, Chemistry and HSC Mathematics Ext. 1
UOW Course Code:	TBA
UAC Code:	751625
CRICOS Code:	048493M

### **Overview / Course Aims**

The Faculties of Engineering and Health and Behavioural Sciences offer double degree courses over five years of full-time or eight years of part-time study, leading to the degrees of Bachelor of Engineering and Bachelor of Science. These courses provide education in either Mechanical Engineering or Mechatronics, together with a major study in Exercise Science to broaden the knowledge base of the graduate thereby enhancing career prospects.

Requirements for admission to the double degree is a UAI, or the equivalent, which is equal to or greater than the rank required for admission to the course for the degree of Bachelor of Science (Exercise Science), or the course for the degree of Bachelor of Engineering, whichever is the higher. English and Mathematics pre-requisites for both degrees must be satisfied.

### **Course Requirements**

To qualify for the award of the double degree, the following subjects must be completed:

#### **Course Program: Bachelor of Engineering (Mechanical) - Bachelor of Science (Exercise Science)**

<b>Subject</b>	<b>Session</b>	<b>Credit Points</b>
<b>Year 1</b>		
CHEM103	Chemistry for Engineers	Autumn 6
ENGG101	Foundations of Engineering	Autumn 6
ENGG153	Engineering Materials	Autumn 6
MATH187	Mathematics 1A Part 1	Autumn 6
ENGG152	Engineering Mechanics	Spring 6
ENGG154	Engineering Design and Innovation	Spring 6
MATH188	Mathematics 1A Part 2	Spring 6
PHYS143	Physics for Engineers	Spring 6
<b>Year 2</b>		
BMS101	Systemic Anatomy	Autumn 6
ENGG251	Mechanics of Solids	Autumn 6
MATH283	Mathematics 2E for Engineers Part 1	Autumn 6
MECH152	Engineering Computing, Instrumentation and Workshop Practice	Autumn 6
BMS112	Human Physiology 1	Spring 6



## Course Information

ECTE290	Fundamentals of Electrical Engineering	Spring	6
MECH201	Engineering Analysis	Spring	6
MECH215	Fundamentals of Machine Component Design	Spring	6
MECH226	Machine Dynamics	Spring	6
<b>Year 3</b>			
BMS211	Foundations of Biomechanics	Autumn	6
ENGG252	Engineering Fluid Mechanics	Autumn	6
MECH311	Mechanical Engineering Design	Autumn	6
PSYC101	Introduction to Behavioural Science	Autumn	6
BIOL103	Molecules, Cells and Organisms	Spring	6
BMS203	Musculoskeletal Functional Anatomy	Spring	6
ENGG361	Project and Business Management	Spring	6
MECH341	Thermodynamics	Spring	6
MECH343	Heat Transfer and Aerodynamics	Spring	6
<b>Year 4</b>			
BMS202	Human Physiology II	Autumn	6
MECH321	Dynamics of Engineering Systems	Autumn	6
MECH382	Manufacturing Engineering Principles	Autumn	6
PSYC216	Psychology of Physical Activity	Autumn	6
BMS242	Exercise Physiology	Spring	6
BMS341	Clinical Biomechanics	Spring	6
MECH365	Control of Machines and Processes	Spring	6
Plus	2 electives (Mechanical plus one other)		12
<b>Year 5</b>			
BExS352	Exercise Prescription II	Autumn	8
BExS401	Ergonomics	Autumn	6
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
BExS351	Exercise Prescription I	Spring	8
BMS346	Motor Control and Dysfunction	Spring	6
ENGG452	Thesis A	Annual	12
or			
ENGG453	Thesis B	Annual	18
ENGG454	Professional Experience		0
Plus	2 electives (1 Mechanical)		

## Course Program: Bachelor of Engineering (Mechatronics) - Bachelor of Science (Exercise Science)

Subject		Session	Credit Points
<b>Year 1</b>			
CHEM103	Chemistry for Engineers	Autumn	6
CSCI1191	Programming for Engineers	Autumn	6
ENGG153	Engineering Materials	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
ECTE101	Electrical Engineering 1	Spring	6
ENGG152	Engineering Mechanics	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS143	Physics for Engineers	Spring	6
<b>Year 2</b>			
BMS101	Systemic Anatomy	Autumn	6
ECTE202	Circuits and Systems	Autumn	6
ECTE233	Digital Hardware 1	Autumn	6
ENGG251	Mechanics of Solids	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
BMS112	Human Physiology 1	Spring	6
ECTE212	Electronics and Communications	Spring	6
ENGG154	Engineering Design and Innovation	Spring	6
MECH215	Fundamentals of Machine Component Design	Spring	6
<b>Year 3</b>			
BMS202	Human Physiology II	Autumn	6
BMS211	Foundations of Biomechanics	Autumn	6
PSYC101	Introduction to Behavioural Science	Autumn	6
BIOL103	Molecules, Cells and Organisms	Spring	6
BMS203	Musculoskeletal Functional Anatomy	Spring	6
BMS242	Exercise Physiology	Spring	6
MECH311	Mechanical Engineering Design	Spring	6
MECH226	Machine Dynamics	Spring	6
<b>Year 4</b>			
ECTE313	Electronics 3	Autumn	6
ECTE344	Control Theory	Autumn	6
ECTE371	Mechatronics Design	Autumn	6
MECH382	Manufacturing Engineering Principles	Autumn	6
PSYC216	Psychology of Physical Activity	Autumn	6
BMS341	Clinical Biomechanics	Spring	6
BMS346	Motor Control and Dysfunction	Spring	6
ECTE301	Digital Signal Processing 1	Spring	6
ECTE333	Digital Hardware 2	Spring	6

**Year 5**

BExS352	Exercise Prescription II	Autumn	6
BExS401	Ergonomics	Autumn	6
ECTE323	Power Engineering 2	Autumn	6
ENGG461	Project Management and Human Factors in Engineering	Autumn	6
MECH440	Fluid and Heat Transfer	Autumn	6
BExS351	Exercise Prescription I	Spring	6
ECTE494	Robotics	Spring	6
ENGG452	Thesis A	Annual	12
or			
ENGG453*	Thesis B	Annual	18
ENGG454	Professional Experience		0

\*18cp thesis is equivalent to the 12cp thesis and one 6cp elective

## Bachelor of Science (Physics) - Bachelor of Mathematics

Testamur Title of Degree:	Bachelor of Science (Physics) - Bachelor of Mathematics
Abbreviation:	BSc (Physics)-BMath
Home Faculty:	Faculty of Engineering
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
Approx. UAI Entry:	
Assumed Knowledge:	Any two units of English plus Mathematics
Recommended Studies:	HSC Mathematics Ext. 1 plus Chemistry or Physics
UOW Course Code:	782
UAC Code:	751805
CRICOS Code:	

### Overview / Course Aims

This double degree provides students with deeper understanding of the complementary areas of mathematics and physics. As well as making them eligible for employment in areas requiring qualifications in both mathematics and physics, this will particularly equip students for work in areas where they will undertake mathematical modelling of physical systems.

### Course Requirements

All students must complete the required number of credit points and satisfy all course requirements for the Bachelor of Science (Physics) degree and the Bachelor of Mathematics - refer to course structures below. All students must take particular notice of the Course Rules regarding minimum rate of progress.

The formal contact hours, methods of teaching and learning and forms of assessment vary from subject to subject. Details will be provided to students at the commencement of each subject by the subject coordinator. Students should attend all classes including lectures, tutorials and laboratory classes.

### Honours

Students with a good academic record are encouraged to proceed to an Honours year; an additional year of study providing training in independent research in either discipline would be required.

### Further Studies Options

Graduates can apply for entry to Honours in Physics, then Master of Science - Research, or PhD.

### Career Opportunities

Opportunities exist in teaching, administration, scientific communication, computing, and research.

### Course Program

Subject		Session	Credit Points
<b>Year 1</b>			
MATH121	Discrete Mathematics	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6

## Course Information

PHYS141	Fundamentals of Physics A	Autumn	6
MATH111	Applied Mathematical Modelling 1	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
PHYS295	Concepts of the Modern Universe	Spring	6
Plus	2 electives		12
<b>Year 2</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH203	Linear Algebra	Autumn	6
PHYS205	Advanced Modern Physics	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn	6
MATH202	Differential Equations 2	Spring	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
PHYS215	Vibrations, Waves and Optics	Spring	6
PHYS225	Electromagnetism and Optoelectronics	Spring	6
<b>Year 3</b>			
CSCI114	Procedural Programming	Autumn/Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
PHYS235	Mechanics and Thermodynamics	Autumn	6
PHYS305	Quantum Mechanics	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
MATH302	Differential Equations 3	Spring	6
MATH305	Partial Differential Equations	Spring	6
MATH313	Industrial Mathematical Modelling	Spring	6
or			
STAT232	Estimation and Hypothesis Testing	Spring	6
PHYS375	Nuclear Physics	Spring	6
<b>Year 4</b>			
MATH312	Applied Mathematical Modelling 3	Autumn	6
or			
STAT333	Statistical Inference and Multivariate Analysis	Autumn	6
Either			
MATH323	Topology and Chaos	Spring	6
or			
STAT335	Sample Surveys and Experimental Design	Autumn	6
Either			
PHYS325	Electromagnetism	Autumn	6
PHYS335	Classical Mechanics	Autumn	6
PHYS396	Electronic Materials	Autumn	6
or			
2 x	300 level Mathematics subjects	Spring	12
or			
STAT304	Operations Research and Applied Probability	Spring	6
and			
STAT332	Multiple Regression and Time Series	Spring	6
PHYS385	Statistical Mechanics	Spring	6
PHYS390	Astrophysics	Spring	6

# Faculty of Health & Behavioural Sciences

## Member Units

Department of Biomedical Science

Department of Nursing

Department of Psychology

Graduate School of Public Health

## Degrees Offered

### Single Degrees

Bachelor of Arts

Bachelor of Exercise Science & Rehabilitation

Bachelor of Health Science in Indigenous Health Studies

Bachelor of Nutrition and Dietetics

Bachelor of Medical Science

Bachelor of Nursing

Bachelor of Nursing Conversion

Bachelor of Psychology

Bachelor of Science

### Double Degrees

Bachelor of Medical Science - Bachelor of Commerce

Bachelor of Psychology - Bachelor of Commerce

Bachelor of Science (Exercise Science) - Bachelor of Commerce

Bachelor of Science (Nutrition) - Bachelor of Commerce

Bachelor of Science (Psychology) - Bachelor of Commerce

Bachelor of Science - Bachelor of Laws (Health and Behavioural Sciences Major)

Bachelor of Medical Science - Bachelor of Laws

### Degrees with TAFE NSW

Bachelor of Health Science in Indigenous Health Studies

*(includes TAFE Advanced Diploma in Aboriginal and Torres Strait Islander Health)*

Bachelor of Medical Science / TAFE Diploma of Laboratory Techniques (Pathology Testing)

Bachelor of Nutrition and Dietetics / TAFE Certificate IV in Hospitality (Catering Operations)

Bachelor of Science (Nutrition) / TAFE Certificate IV in Hospitality (Catering Operations)

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>

International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

## Bachelor of Arts

Testamur Title of Degree:	Bachelor of Arts
Abbreviation:	BA
Home Faculty:	Health and Behavioural Sciences
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Normally Autumn session
Location:	Wollongong
UOW Course Code:	708
UAC Code:	See information under each major
CRICOS Code:	012087M

### Overview

Students enrol in the Bachelor of Arts in the Faculty of Health and Behavioural Sciences (Course Code 708) who wish to undertake a major or double major in either Population Health and/or Psychology. Students who choose the Bachelor of Arts would normally choose elective subjects outside their major from the humanities and social sciences. Students also may choose a second major from outside the Faculty.

### Entry Requirements / Assumed Knowledge

Domestic School Leavers are assumed to have completed at least 2 units of English at HSC level. International students are required to have achieved an IELTS score of 6.5, with a level of 6.0 in reading, writing, speaking and listening. Alternative pathways exist for mature age domestic students.

### Course Requirements

The Bachelor of Arts (Course Code 708) is comprised of 144 credit points of subjects listed in the subject schedule for a major in the Faculty of Health and Behavioural Sciences, plus additional elective subjects chosen from Health and Behavioural Sciences, Arts or the General Schedule. Subjects to a value of at least 90 credit points of subjects must be selected from the Health and Behavioural Sciences or the Arts schedules. Students may undertake no more than 60 credit points of 100-level subjects. Students should refer to the Award Rules for the Bachelor of Arts (Course Code 708) for further details.

### Major Study Areas

Population Health  
Psychology  
Population Health and Psychology

#### **Population Health** (UAC Code 757649)

The Bachelor of Arts (Population Health) aims to train students in skills to obtain, review and analyse health information, to plan and manage a health project and to improve the health of populations. The program is designed to do two main things. Firstly, students will learn the basics of the health sector and develop an understanding of the problems involving health, illness, treatment and welfare. Secondly, useful skills are developed that can be used in a variety of jobs. Skills such as analysing information, researching with people, developing policy, project management and writing for a range of purposes, such as report writing and writing for the media. This means that when you graduate, there are many possibilities with regard to jobs, especially if you take population health in conjunction with another specialty area, such as psychology, economics or politics.

### Major Study

The Population Health Major consists of 88 credit points of subjects, as outlined in the course structure below, together with other subjects which may be selected from the Health & Behavioural Sciences, Arts or General Schedules to make up the 144 credit points required for the degree.

### Honours

The degree of Bachelor of Arts (Honours) in the Graduate School of Public Health is designed to provide supervised training in independent research. Candidates can be admitted with a Bachelor degree in a relevant discipline with research skill subjects and a credit average depending on the availability of supervision. The program will consist of 48 credit points of research leading to the submission of a thesis. Research should be in an area of research expertise of a member of the Graduate School of Public Health. Potential candidates should discuss their research interest with the coordinator of the program and present a research project title and general outline.

Once the supervisor has been approved the candidate will undertake an approved course program recommended by the School Head. The student is also required to pass an examination of the detailed research proposal before about one third of the research time has passed. The total duration of the honours year is no less than one year full-time and no more than 1.5 years full-time. Requirements are specified in the Honours Bachelor Degree Rules.

## Course Program

Subjects		Session	Credit Points
<b>100 Level</b>			
BMS103	Human Growth Nutrition and Exercise	Autumn	6
POP101	Population Health - current health issues and their determinants	Spring	6
STAT151	Introduction to the Concepts & Practice of Statistics	Spring	6
And either			
ABST150	Introduction to Aboriginal Australia	Autumn/Spring	6
Or			
POP103	Introduction to Health Behaviour Change	Spring	6
<b>200 Level</b>			
POP201	Contemporary Population Health Issues	Autumn	6
POP202	Promoting Healthy Lifestyles	Autumn	6
POP203	Health Policy	Spring	6
POP204	Epidemiology	Spring	6
<b>300 Level</b>			
POP301	Project and Program Design, Management and Evaluation	Autumn	8
POP302	Analysis and Interpretation of Evidence	Autumn	8
POP331*	Population Health Project A	Autumn/Spring/ Annual	24

\* Students taking a joint major with another specialisation should take POP332 Population Health Project B, 8 credit points.

*Note - Students can include additional subjects in Population Health in their degree, including:*

POP102	Sex, Drugs and Rock 'n' Roll: public health perspectives	Autumn	6
POP220	Mass Media and Population Health	Autumn	6
POP325	Aboriginal Health Issues	Spring	8

## Other Information

Subjects to the value of at least 90 credit points must be selected from the Health and Behavioural Sciences or Arts Schedules. Subjects to the value of 144 credit points are required for the degree.

## Psychology (UAC Code 753122)

Psychology is the scientific study of human behaviour and experience, the physiological, sensory and cognitive processes that underlie it, and the profession that applies this knowledge to practical problems. Psychologists help us to understand who we are and how we think, feel, act and change. They aim to help people function better, and to prevent ill-health and other problems developing. Psychologists' clients include children, adults, couples, families and organisations.

## Entry Requirements / Assumed Knowledge

Domestic school leavers are assumed to have completed any two units of English. International students are required to have an IELTS score of 6.5 with a level of 6.0 in reading, writing, speaking and listening. Alternative pathways exist for mature age domestic students.

## Major Study

For the Major in Psychology, students complete 72 credit points of subjects, as outlined in the schedule below. If students wish to proceed to Honours in Psychology, additional requirements must be met, as noted in the Honours information below.

## Honours

Honours in Psychology is a fourth year of study accredited by the Australian Psychological Society (APS). It is offered on a one year full-time or two year part-time basis. Psychology Honours is a route to the postgraduate coursework or research degrees in Psychology. It is also a partial qualification for registration as a psychologist with the Psychologist's Registration Board of New South Wales, a post-degree supervision period also being required.

Graduates of the University of Wollongong with a major in Psychology are eligible to apply for admission to Psychology Honours provided that: they have completed an undergraduate degree curriculum with a major in psychology; they have completed PSYC348 History and Metatheory of Psychology and PSYC354 Design and Analysis (and thus any 200 level prerequisites for PSYC354); they have completed at least 76 credit points of Psychology subjects at 200- and 300- levels; they have at least a credit average for Psychology subjects at 200- and 300- levels.

## Professional Recognition

To apply for registration as a professional psychologist with the Psychologists' Registration Board of NSW it is necessary to complete an accredited 4 year course of study plus 2 years' supervised practice. Accreditation with the Australian Psychological Society, the national professional association, requires 6 years of approved academic study.

**Course Program**

(For Single Major)

Subjects		Session	Credit Points
PSYC121	Foundations in Psychology A	Autumn	6
PSYC122	Foundations in Psychology B	Spring	6
PSYC123	Theory, Design and Statistics in Psychology	Spring	6
PSYC247	Statistics and Measurement 1	Autumn	6
PSYC231	Personality	Autumn	6
PSYC241	Developmental and Social Psychology	Spring	6
PSYC234	Biological Psychology and Learning	Autumn	6
PSYC236	Cognition and Perception	Spring	6
PSYC315	Psychology of Abnormality	Autumn	8
<i>And two electives, of which there must be at least one of the following:</i>			
PSYC317	Current Issues in Learning and Judgement	Autumn	8
PSYC345	Memory and Language	Spring	8
PSYC349	Visual Perception	Autumn	8
PSYC352	Psychophysiology	Spring	8
<i>And at least one of the following:</i>			
PSYC347	Assessment and Intervention	Autumn	8
PSYC350	Social Behaviour and Individual Differences	Autumn	8
PSYC318	Change Throughout the Lifespan	Spring	8
PSYC348	History and Metatheory of Psychology	Spring	8
PSYC354	Design and Analysis	Spring	8
<i>Note: Psychology Honours also requires the following:</i>			
PSYC248	Statistics and Measurement 2	Spring	6

**Other Information**

Subjects to the value of at least 90 credit points must be selected from the Health and Behavioural Sciences or Arts Schedules. Subjects to the value of 144 credit points are required for the degree.

In addition, further credit points across 100, 200 and 300 levels must be taken from Health and Behavioural Sciences and the General Schedules. Students may include PSYC101 Introduction to Behavioural Sciences as an elective.

**Population Health and Psychology**

The double major in Population Health and Psychology consists of a minimum of 144 credit points, which comprises all of the subjects in each of the individual majors. If students wish to undertake honours in Psychology at the end of the double major degree, additional subjects are required. Students should consult the information on Honours in the entry for the Psychology major.

The double major in Population Health and Psychology enables students to pursue two options for their career or further study. Students may progress to advanced level study such as honours or postgraduate courses in either field. In addition, the combination of majors will enable graduates to apply for jobs in specialist areas of population health, such as lifestyle counselling or conducting lifestyle management programs.

**Course Program**

Subjects		Session	Credit Points
<b>100 Level</b>			
ABST150	Introduction to Aboriginal Australia	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
POP103	Introduction to Health Behaviour Change	Spring	6
PSYC121	Foundations of Psychology A	Autumn	6
POP101	Population Health - current health issues and their determinants	Spring	6
PSYC122	Foundations of Psychology B	Spring	6
PSYC123	Theory, Design and Statistics in Psychology	Spring	6
<i>And one elective</i>			
<b>200 Level</b>			
POP201	Contemporary Population Health Issues	Autumn	6
PSYC231	Personality	Autumn	6
PSYC234	Biological Psychology and Learning	Autumn	6
PSYC247	Statistics and Measurement 1	Autumn	6
POP203	Health Policy	Spring	6
POP204	Epidemiology	Spring	6
PSYC236	Cognition and Perception	Spring	6
PSYC241	Developmental and Social Psychology	Spring	6
<i>Note: Psychology Honours also requires that PSYC248 Statistics and Measurement II be taken.</i>			
<b>300 Level</b>			
POP301	Project and Program Design, Management and Evaluation	Autumn	8
POP302	Analysis and Interpretation of evidence	Autumn	8
POP332	Population Health Project B	Spring	8

PSYC315	Psychology of Abnormality	Autumn	8
<i>And two electives, of which there must be one of the following:</i>			
PSYC345	Memory and Language	Spring	8
PSYC349	Visual Perception	Autumn	8
PSYC317	Current Issues in Learning and Judgement	Autumn	8
PSYC352	Psychophysiology	Spring	8
<b>And may include</b>			
PSYC248	Statistics and Measurement II	Spring	6
PSYC347	Assessment and Intervention	Autumn	8
PSYC350	Social Behaviour and Individual Differences	Autumn	8
PSYC318	Change Throughout the Life Span	Spring	8
PSYCH348	History and Metatheory of Psychology	Spring	8

Note: Students wishing to take Psychology Honours should consult the information on Honours listed under the single Major, Psychology, to ensure they complete the required subjects.

## Bachelor of Exercise Science and Rehabilitation

Testamur Title of Degree:	Bachelor of Exercise Science and Rehabilitation
Abbreviation:	BExScRehab
Home Faculty:	Health and Behavioural Sciences
Duration:	4 years full-time
Total Credit Points:	192 cp
Delivery Mode:	Day
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	851A
UAC Code:	757643
CRICOS Code:	016112E

### Overview

The Bachelor of Exercise Science and Rehabilitation emphasises professional development and is designed to provide students with opportunities to gain clinical skills through work experience within the department's Exercise Science and Rehabilitation Centre and other clinical application placement programs operating within the community. Graduates are trained to utilise exercise as an intervention to maintain and improve health and fitness and rehabilitate after injury or disease.

### Entry Requirements / Assumed Knowledge

Domestic school leavers are assumed to have completed any two units of English, plus four units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5, with a level of 6 in reading, writing, and 5 in speaking and listening.

**NSW Health Employment Requirements:** The NSW Health Department requires all staff and students undertaking clinical placements in positions dealing with children and patients vulnerable by reason of health status, to undergo a criminal record and vaccination record status check before employment or placement in any capacity in the NSW health system. For further information, refer to the *Additional Information* section at the end of this chapter.

### Advanced Standing

Undergraduate students wishing to transfer into the Bachelor of Exercise Science and Rehabilitation degree may apply upon completion of the first two years of the BSc (Exercise Science) or BSc (Exercise Science and Nutrition) degrees (or other approved degree programs). Selection is based on University results over that time.

### Course Requirements

The Bachelor of Exercise Science & Rehabilitation degree is comprised of 178 credit points of core subjects with the balance (at least 14 credit points) to be taken as elective subjects from the Health and Behavioural Sciences or Science Schedules. Further, at least 88 credit points will be at 300 and/or 400-level, including at least 40 credit points at the 400-level.

### Course Program

Subjects		Session	Credit Points
<b>Year 1</b>			
BMS101	Systemic Anatomy	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC101	Introduction to Behavioural Science	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6



## Course Information

CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics	Spring	6
<b>Year 2</b>			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BMS211	Foundations of Biomechanics	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
PSYC216	Psychology of Physical Activity	Autumn	6
BMS203	Musculoskeletal Functional Anatomy	Spring	6
BMS204	Introduction to Pathophysiology	Spring	6
BMS242	Exercise Physiology	Spring	6
<b>Plus a further 6 cp from:</b>			
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
MGMT102	Business Communications	Spring	6
POP101	Population Health – Current Health Issues and Their Determinants	Spring	6
POP203	Health Policy	Spring	6
POP204	Epidemiology	Spring	6
<b>Year 3</b>			
BMS342	Advanced Exercise Physiology	Autumn	8
BMS344	Cardiorespiratory Physiology	Autumn	8
BEXS351	Exercise Prescription 1: Strength and Conditioning	Spring	8
BMS346	Motor Control and Dysfunction	Spring	8
BEXS352	Exercise Prescription 2: Aerobic Fitness	Autumn	8
<b>Plus a further subject from:</b>			
BMS341	Clinical Biomechanics	Spring	8
<b>Or other approved subject</b>			
<b>Year 4</b>			
BEXS411	Practicum in Exercise Science A	Annual	8
BEXS451	Exercise Rehabilitation 1: Musculoskeletal	Autumn	8
BEXS452	Exercise Rehabilitation 2: Cardiorespiratory and Neurological	Autumn	8
BMS303	Research Topics in Exercise Science	Spring	8
BEXS402	Exercise for Special Populations	Spring	8
BEXS412	Practicum in Exercise Science B	Spring	8

## Honours

Students should refer to the Department for information about Honours.

## Professional Recognition

Graduates may become members of the Australian Association for Exercise and Sport Science and achieve professional accreditation with further work experience.

## Bachelor of Health Science in Indigenous Health Studies

Testamur Title of Degree:	Bachelor of Health Science in Indigenous Health Studies
Abbreviation:	BHlthScInd
Home Faculty:	Health and Behavioural Sciences
Duration:	3 years or part-time equivalent
Total Credit Points:	144 cp
Delivery Mode:	Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	786A
UAC Code:	756632
CRICOS Code:	Not applicable

## Overview

The Bachelor of Health Science in Indigenous Health Studies is a flexibly delivered degree offered in partnership with the Illawarra Institute of Technology (TAFE NSW) Shellharbour campus. The course can also be done entirely through the University. The degree provides students with the knowledge and skills to effectively address Indigenous health issues. Areas covered include: community health, community development and cultural issues. Indigenous health workers graduate with professional accreditation, based on a competency-based program that is linked to the Aboriginal Health Worker award.

This course also complements study in related areas, for example Population Health or Psychology.

## Entry Requirements / Assumed Knowledge

Domestic School leavers are recommended to have completed 2 units of Aboriginal Studies at HSC level. Alternative pathways exist for mature age domestic students. Even if you have not completed the current NSW HSC (or equivalent) in full, or you did not receive the required entry mark, you may still qualify for admission.

## Course Requirements

During the program students who complete the Advanced Diploma in Aboriginal and Torres Strait Islander Health offered by TAFE NSW, receive 72 credit points' of advanced standing towards the degree. This is followed by 1.5 years full-time study (or part time equivalent) in the Indigenous Health program at the University to complete a further 72 credit points of approved subjects. These may include complementary subjects from population health, Aboriginal studies and nursing.

This is a fully articulated multidisciplinary program with multiple entry and exit points, and Recognised Prior Learning criteria. A significant placement component is included to provide practical as well as theoretical knowledge and skills in Indigenous culture, health and community development.

The TAFE component of the course is offered in flexible delivery mode. Students completing the course will be concurrently enrolled at both the University of Wollongong and the Illawarra Institute of Technology. Students should be aware that the TAFE component of the program begins in February, earlier than normal session start.

Students should seek advice from an academic adviser at the University or at TAFE before enrolling in this program. Students wishing to undertake part-time study in the TAFE component must discuss this with the TAFE coordinator:

Ms Sandra Bolack  
Head Teacher, Nursing Unit  
The Illawarra Institute of Technology (TAFE NSW)  
Shellharbour Campus  
Phone: 4295 2289 / Fax: 4295 2114  
Email: [Sandra.bolack@det.nsw.edu.au](mailto:Sandra.bolack@det.nsw.edu.au)  
or  
Robyn Williams  
Senior Lecturer Indigenous Health program, Department of Nursing, University of Wollongong  
+61 2 4221 3576 or [williams@uow.edu.au](mailto:williams@uow.edu.au)

## Course Program

TAFE Advanced Diploma in Aboriginal and Torres Strait Islander Health

And/or

Subjects		Session	Credit Points
NURS162	Effective Communication in Health Care Relationships	Autumn	6
ARTS211	Social Science Perspectives on Health and Illness	Autumn	6
NURS240	Current Services in Aboriginal Health	Spring	6
NURS242	Functional Community Structures	Not Avail 2005	6
NURS243	Comparative Indigenous Health Issues	Spring	6
NURS327	Health and Human Ecology	Spring	6
NURS341	Research in Indigenous Health	Autumn	8
NURS343	Indigenous Community Development: Theory and Practice	Not Avail 2005	6
NURS344	Community Health: Theory, Research and Practice	Spring	6
<i>Plus at least 12 credit points to be selected from:</i>			
ABST150	Introduction to Aboriginal Australia	Autumn/Spring	6
ABST200	Aboriginal History Since Invasion	Autumn	8
ABST300	Indigenous Theories of De-Colonisation	Spring	8

or other subjects approved by the Head of Department.

## Professional Recognition

Completion of the TAFE Advanced Diploma is linked to the Aboriginal Health Worker Award.

## Bachelor of Medical Science

Testamur Title of Degree:	Bachelor of Medical Science
Abbreviation:	BMedSc
Home Faculty:	Health and Behavioural Sciences
Duration:	3 years full-time
Total Credit Points:	144 cp
Delivery Mode:	Day
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	787
UAC Code:	757641
CRICOS Code:	036458B

## Overview

The Bachelor of Medical Science degree provides an excellent first degree for students wishing to enrol in post-graduate studies in medicine, teaching or research. Students receive a thorough grounding in areas such as anatomy, physiology, neuroscience, biochemistry, chemistry and biology.

## Entry Requirements / Assumed Knowledge

Domestic School Leavers are assumed to have completed any two units of English, plus four units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5, with a level of 6 in reading, writing, speaking and listening.

## Course Requirements

The Bachelor of Medical Science degree requires 3 years of full-time study and satisfactory completion of 144 credit points.

## Course Program

Subjects		Session	Credit Points
<b>Year 1</b>			
BMS101	Systemic Anatomy	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC101	Introduction to Behavioural Science	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics	Spring	6
<b>Year 2</b>			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
BMS200	Histology	Autumn	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BMS204	Introduction to Pathophysiology	Spring	6
<i>Plus a further 6 cp from:</i>			
BMS211	Foundations of Biomechanics	Autumn	6
CHEM212	Organic Chemistry II	Autumn	6
STS215	Globalisation: Technology, Culture and Media Or other approved subject	Autumn	8
<i>Plus a further 12 cp from:</i>			
BMS242	Exercise Physiology	Spring	6
BMS203	Musculoskeletal Functional Anatomy	Spring	6
BIOL215	Introductory Genetics Or other approved subjects	Spring	6
<b>Year 3</b>			
BMS352	Fundamentals of Neuroscience	Autumn	8
<i>Plus a further 16 cp from:</i>			
BMS302	Research Topics	Autumn/ Spring	8
BMS311	Nutrients and Metabolism	Autumn	8
BMS342	Advanced Exercise Physiology	Autumn	8
BMS344	Cardiorespiratory Physiology	Autumn	8
BIOL320	Molecular Cell Biology	Autumn	8
CHEM350	Principles of Pharmacology	Autumn	8
<i>Or other approved subjects</i>			
BMS300	Regional Anatomy	Spring	8
<i>Plus a further 16 cp from:</i>			
BMS302	Research Topics	Autumn/ Spring	8
BMS345	Advanced Topics in Pathophysiology	Spring	8
BMS346	Motor Control and Dysfunction	Spring	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
PHIL380	Bioethics	Spring	8
<i>Or other approved subjects</i>			

## Honours

Students wishing to proceed to Honours enrol in the Bachelor of Science (Honours), which is designed to provide students with skills to demonstrate excellence in research with a clear understanding of a research question in relation to current knowledge. The degree program fosters the following abilities and skills: plan, design and perform a research project; collect and analyse data; evaluate data; synthesise results and integrate with relevant ideas and concepts; communicate results of findings; put relevant OHS principles into practice.

Entry into the Bachelor of Science (Hons) requires the student to have attained at least a credit average in subjects undertaken during their undergraduate degree. The Postgraduate Coordinator and prospective supervisor will determine whether a student's 300-level subjects are appropriate for entry into the Bachelor of Science (Hons). In addition, admission will be dependent upon the availability of an appropriate supervisor, who must be identified by the applicant prior to applying for entry. Students considering enrolment in BSc(Hons) should first contact the Department's Postgraduate Coordinator.

## Bachelor of Medical Science/TAFE Diploma of Laboratory Techniques (Pathology Testing)

Testamur Title of Degree:	Bachelor of Medical Science TAFE Diploma
Abbreviation:	BMedSc
Home Faculty:	Health and Behavioural Sciences
Duration:	4 years full-time
Total Credit Points:	144 cp UOW; 837 hr TAFE
Delivery Mode:	Day
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	787
UAC Code:	757641
CRICOS Code:	Not applicable

### Overview

The double award of Bachelor of Medical Science/TAFE Diploma of Laboratory Techniques (Pathology Testing) provides opportunities for improved vocational outcomes, and the development of practical skills through simultaneous enrolment in the university degree and the TAFE diploma.

### Entry Requirements / Assumed Knowledge

Domestic School Leavers are assumed to have completed any two units of English, plus four units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5, with a level of 6 in reading, writing, speaking and listening.

Students in the Bachelor of Medical Science can elect to enter this combined program after 2 years of study.

Recommended Study: See Bachelor of Medicine Science.

### Course Requirements

The Bachelor of Medical Science/TAFE Diploma of Laboratory Techniques (Pathology Testing) degree requires 4 years of full-time study. Students need to complete the first two years of the Bachelor degree at the University of Wollongong. The third year can be undertaken at TAFE. Students will then complete the remaining subjects of the dual program in their fourth year of study at the University.

### Course Program

**Note:** *ITALIC* type indicates TAFE component

Subjects		Session	Credit Points
<b>Year 1</b>			
BMS101	Systemic Anatomy	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC101	Introduction to Behavioural Science	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics	Spring	6
<b>Year 2</b>			
BMS202	Human physiology II: Control Mechanisms	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
BMS200	Histology	Autumn	6
<i>Plus a further 6 cp from:</i>			
BMS211	Foundations of Biomechanics	Autumn	6
CHEM212	Organic Chemistry II	Autumn	6
STS215	Globalisation: Technology, Culture and Media	Autumn	8
<i>Plus</i>			
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BMS204	Introduction to Pathophysiology	Spring	6

## Course Information

Plus a further 12 cp from:

MGMT110	Introduction to Management	Spring	6
MGMT321	Occupational Health and Safety Management or other approved subject	Spring	6

### Year 3

6849AG	Laboratory Testing & Procedures 2	72 hrs
6849AH	Laboratory Testing & Procedures 3	45 hrs
6849AA	Calibration & Data Handling	27 hrs
6850AA	Quality Improvement	18 hrs
6850AD	Instrumental Tests 1 - Spectroscopy	45 hrs
6850AE	Instrumental Tests 2 - Chromatography	36 hrs
6850AF	Instrumental Tests 3	18 hrs
1822F	Histotechnology	45 hrs
1822A	Microbiology	45 hrs
1822D	Haematology 1	54 hrs
1822H	Clinical Chemistry 1	54 hrs
1822B	Medical Microbiology	45 hrs
1822G	Histotechnology 2	45 hrs
1822K	Immunohaematology	45 hrs
1822E	Haematology II	54 hrs
1822C	Parasitology and Virology	18 hrs
1822J	Clinical Chemistry II	54 hrs
1822L	Workplace Practice 4 - Pathology	27 hrs
1822M	Workplace Practice 5 - Pathology	27 hrs

### Year 4

BMS352	Fundamentals of Neuroscience	Autumn	8
Plus a further 16 cp from:			
BMS302	Research Topics	Autumn/ Spring	8
BMS311	Nutrients and Metabolism	Autumn	8
BMS344	Cardiorespiratory Physiology	Autumn	8
CHEM350	Principles of Pharmacology	Autumn	8
Or other approved subjects			
BMS300	Regional Anatomy	Spring	8
Plus a further 16 cp from:			
BMS302	Research Topics	Autumn/ Spring	8
BMS345	Advanced Topics in Pathophysiology	Spring	8
BMS346	Motor Control and Dysfunction	Spring	8
PHIL380	Bioethics	Spring	8
Or other approved subjects			

## Honours

Students wishing to proceed to Honours enrol in the Bachelor of Science (Honours). Students should consult the information listed under the Bachelor of Medical Science.

## Professional Recognition

Graduates may become members of AIMS.

## Other Information

Students are advised to consult the course coordinator about subject selection and enrolment in the TAFE component.

## Bachelor of Nursing

Testamur Title of Degree:	Bachelor of Nursing
Abbreviation:	BNursing
Home Faculty:	Health and Behavioural Sciences
Duration:	3 years full-time
Total Credit Points:	144 cp
Delivery Mode:	Day classes
Starting Session(s):	Autumn
Location:	Wollongong and Bega
UOW Course Code:	863
UAC Code:	757101
CRICOS Code:	003330B

## Overview

The Bachelor of Nursing is a first level award. Aims include sound knowledge for safe and competent practice; appropriate affective and psychomotor skills in providing holistic patient care; reflective nursing practice skills in a variety of settings; drawing on relevant principles of the biosciences and social and behavioural sciences; effective interpersonal and group communication skills; effective and collaborative functioning as a professional member of the health care team; effective and sensitive practice within a multicultural environment; responsibility for the continuing development of self and profession; and high level skills in organisation and allocation of priorities in clinical and practice activities.

## Entry Requirements / Assumed Knowledge

Domestic School Leavers are assumed to have completed any 2 units of Science at HSC level. International students are required to have achieved an overall IELTS score of 6.5, with a level of at least 6.0 in all bands, reading, writing, speaking and listening. Alternative pathways exist for mature age domestic students.

Enrolled Nurses who have completed an appropriate TAFE bridging course can enter into Year 2 of the course.

## Advanced Standing

Enrolled Nurses with a TAFE Advanced Certificate receive 12 credit points' advanced standing toward Year 1. Enrolled Nurses who have completed an appropriate TAFE bridging course can enter into Year 2 of the course.

## Course Requirements

The Bachelor of Nursing is comprised of 144 credit points of core subjects. This is a prescribed course designed for persons seeking registration with the New South Wales Nurses' Registration Board, in which:

Year 1 of the course introduces Fundamentals of Nursing Practice;  
Year 2 of the course focuses on developing Collaborative Practice; and  
Year 3 of the course is concerned with Autonomous Practice.

Candidates should note that pre- and co-requisites apply to many subjects in the course. Satisfactory completion of all Year 2 nursing theory and practice subjects (NURS262, NURS263, NURS266, NURS267) is a pre-requisite to enrolment in Year 3 nursing theory and practice subjects. The reason for these prescriptions is that the Department of Nursing has a legal responsibility to ensure that candidates meet nursing theory and practice requirements at each level of the course.

Due to the necessary inclusion of clinical practicum, the length of each session of the course varies from the normal 13 week session. Throughout the three-year course, students will be required to attend 20 weeks off-campus clinical placements in a variety of settings and different area health services.

In order to attend clinical placements, students are required to have a Criminal Record Check (CRC)\* clearance card. To obtain this, students are requested to complete a CRC application form and sign a Working with Children Check\* form eight weeks prior to clinical placements. Before starting clinical placements, students are also required to comply with NSW Health Department Circular 'Occupational Screening and Vaccination Against Infectious Diseases',\* available on the NSW Health Department website. Students who do not meet these requirements will not be able to attend clinical practicum and therefore will not be able to continue in the Bachelor of Nursing.

\* Further information is available under 'Other Information' in this section.

## Course Program

Subjects		Session	Credit Points
<b>Year 1</b>			
NURS162	Effective Communication in Health Care Relationships	Autumn	6
NURS163	Fundamentals of Nursing	Autumn	6
NURS164	Patterns of Knowing in Nursing	Autumn	6
NURS165	Primary Health Care Nursing	Spring	6
NURS166	Medical/Surgical Nursing 1	Spring	6
NURS127	Human Physiology for Nursing: Principles & Systems	Autumn	6
POP103	Introduction to Health Behaviour Change	Spring	6
SCIE122	Biology for Nurses	Spring	6
<b>Year 2</b>			
ARTS211	Social Science Perspectives on Health and Illness	Autumn	6
NURS227	Human Bioscience 3	Autumn	6
NURS262	Medical/Surgical Nursing 2	Autumn	6
NURS263	Mental Health Nursing 1	Autumn	6
NURS264	Reflection and Practice	Spring	6
NURS265	Nursing Therapeutics	Spring	6
NURS266	Medical/Surgical Nursing 3	Spring	6
NURS267	Family and Maternal Health Nursing	Spring	6
<b>Year 3</b>			

NURS322	Developmental Disability Nursing	Autumn	6
NURS362	Continuing, Rehabilitative and Palliative Care Nursing	Autumn	6
NURS363	Therapeutic Use of Self	Autumn	6
NURS364	Research Appreciation and Application	Autumn	6
NURS365	Mental Health Nursing 2	Spring	6
NURS366	Community Health Nursing	Spring	6
NURS367	Medical/Surgical Nursing 4	Spring	6
NURS328	Management in Nursing	Spring	6

## Honours

The Bachelor of Nursing (Honours) provides exceptional nursing students with the opportunity to extend their knowledge and skills beyond the beginning level. There is an increasing need for graduates to develop more advanced and extensive knowledge in the discipline than can be attained in a pass degree. This need can be achieved by qualified candidates, who have attained a level of scholarship at credit level or above in 300-level Nursing subjects, undertaking advanced coursework and research.

## Professional Recognition

Graduates are eligible to register with the Nurses' Registration Board NSW. Registration in other states is assessed individually. Graduates may gain registration in a number of other countries.

## Other Information

Further information is available from:

Dr Peter Thomas, Undergraduate Coordinator, +61 2 4221 3229 or [peter\\_thomas@uow.edu.au](mailto:peter_thomas@uow.edu.au).

Uniadvice 1300 367 869.

Visit our website: <http://www.uow.edu.au/health/nursing>.

*For information on Criminal Record checks and Infectious Diseases please see section at the end of this chapter.*

## Bachelor of Nursing (Conversion)

Testamur Title of Degree:	Bachelor of Nursing (Conversion)
Abbreviation:	BNursing(Conversion)
Home Faculty:	Health and Behavioural Sciences
Duration:	The length of the degree is dependent upon entry qualifications
Total Credit Points:	24 cp (Diploma or equivalent) or 72 cp (Certificate or equivalent)
Delivery Mode:	Day classes
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	860
UAC Code:	Students apply direct to the University
CRICOS Code:	00102E

## Overview

The Bachelor of Nursing (Conversion) provides hospital trained nurses or diplomates with the opportunity to upgrade to degree level. Students will: demonstrate an increased understanding of the nature of nursing; evaluate and apply concepts drawn from nursing theory and research to professional practice; offer leadership to less experienced members of the nursing profession; demonstrate an increased awareness of the effects of cultural, social, economic, legal and ethical influences on the development of the nursing profession; demonstrate increased ability in critical reflection and research; display a readiness and ability to participate in positive changes; and demonstrate competencies that will enable health professionals to accept responsibility for a more complex level of client management.

## Entry Requirements / Assumed Knowledge

Candidates must be Registered Nurses to enrol in this course and must be eligible for registration in NSW and have obtained their initial qualification after 1972. Applicants who obtained their initial qualification before 1972, and who do not hold equivalent nursing qualifications, are still eligible to apply following successful completion of the Special Tertiary Admissions Test or the fulfilment of other entry paths such as the University Access Program.

International students are required to have achieved an overall IELTS score of 6.5, with a level of at least 6.0 in all bands, reading and writing, speaking and listening.

Students should consult the information about Criminal Records Checks and Infectious Diseases in the Bachelor of Nursing entry above.

## Advanced Standing

For Certificated Registered Nurses: Advanced standing of up to 24 credit points may be approved for candidates with post certificate qualifications and experience, but each candidate must satisfy each of the following requirements:

1. at least 6 credit points will be for 100-level subjects, and must include NURS162;
2. at least 12 credit points will be for 200-level subjects;
3. at least 24 credit points will be for 300-level subjects, and must include NURS364.

## Course Requirements for the course for Certificated Registered Nurses

The number of candidates admitted to the course will be limited and applicants must be approved by the Head of the Department of Nursing. Registered nurses with certificate(s) are required to satisfactorily complete subjects with a value of at least 72 credit points.

### Course Program

Subjects		Session	Credit Points
POP103	Introduction to Health Behaviour Change	Spring	6
NURS162	Effective Communication in Health Care Relationships	Autumn	6
NURS164	Patterns of Knowing in Nursing	Autumn	6
NURS165	Primary Health Care Nursing	Spring	6
ARTS211	Social Science Perspectives on Health and Illness	Autumn	6
NURS264	Reflection and Practice	Spring	6
NURS265	Nursing Therapeutics	Spring	6
NURS328	Management in Nursing	Spring	6
NURS363	Therapeutic Use of Self	Autumn	6
NURS364	Research Appreciation and Application	Autumn	6
NURS366	Community Health Nursing	Spring	6

Students may also choose a limited number of credit points from the General Schedule at the discretion of the Department.

## Course Requirements for the course for Registered Nurses who hold a Diploma of Nursing, or equivalent

The number of candidates admitted to the course will be limited and applicants must be approved by the Head of the Department of Nursing. Registered nurses with a Diploma of Nursing, or equivalent, are required to satisfactorily complete subjects with a value of at least 24 credit points, of which at least 12 credit points shall be for 300-level subjects and must include NURS364.

### Course Program

Subjects		Session	Credit Points
NURS264	Reflection and Practice	Spring	6
NURS265	Nursing Therapeutics	Spring	6
NURS328	Management in Nursing	Spring	6
NURS363	Therapeutic Use of Self	Autumn	6
NURS364	Research Appreciation and Application	Autumn	6
NURS366	Community Health Nursing	Spring	6

## Honours

The Bachelor of Nursing (Honours) provides exceptional nursing students with the opportunity to extend their knowledge and skills beyond the beginning level. There is an increasing need for graduates to develop more advanced and extensive knowledge in the discipline than can be attained in a pass degree. This need can be achieved by qualified candidates, who have attained a level of scholarship at credit level or above in 300-level Nursing subjects, undertaking advanced coursework and research.

## Professional Recognition

Graduates may apply for higher positions in management and other specialised areas within the discipline of nursing.

## Bachelor of Nutrition and Dietetics

Testamur Title of	Bachelor of Nutrition and Dietetics
-------------------	-------------------------------------



Degree:	
Abbreviation:	BNutrDiet
Home Faculty:	Health and Behavioural Sciences
Duration:	4 years full-time
Total Credit Points:	192 cp
Delivery Mode:	Face-to-Face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	865
UAC Code:	757647
CRICOS Code:	026811F

## Overview

The Bachelor of Nutrition & Dietetics course emphasises professional development and provides students with opportunities to gain clinical and health promotion skills through placements in hospitals, community health centres and the department's Exercise Science and Rehabilitation Centre.

## Entry Requirements / Assumed Knowledge

Domestic School Leavers are assumed to have completed any two units of English, plus four units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 (minimum) for reading, writing, speaking and listening.

## Course Requirements

Students will need to achieve a minimum of credit average across the full two years of their program to be permitted to continue into the third and fourth years of this degree. Students failing to achieve this grade will be transferred to the BSc (Nutrition) degree program.

## Course Program

Subjects		Session	Credit Points
<b>Year 1</b>			
MGMT110	Introduction to Management and Employment Relations	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
BMS112	Human Physiology I: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics <i>Plus a further 6 cp from</i>	Spring	6
PSYC101 or SOC103*	Introduction to Behavioural Science Aspects of Australian Society	Autumn	6
<b>Year 2</b>			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
CHEM215	Food Chemistry	Autumn	6
POP202	Promoting Healthy Lifestyles	Autumn	6
POP222	Current Issues in Food and Nutrition	Spring	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BMS210	Measurement and Assessment of Diet and Activity	Spring	6
<i>Plus a further 6 cp from:</i>			
BMS204	Introduction to Pathophysiology	Spring	6
POP203	Health Policy	Spring	6
POP204	Epidemiology	Spring	6
<i>Or other approved subjects</i>			
<b>Year 3</b>			
BMS311	Nutrients and Metabolism	Autumn	8
BMS310	Community and Public Health Nutrition	Autumn	8
BMS312	Research in Human Nutrition	Autumn/Annua l	8
PHIL380	Bioethics	Spring	8
BMS304#	Research Topics in Nutrition and Dietetics	Spring	16
<b>Year 4</b>			
BND433	Communication in Health Care Practice	Annual	8
BND434	Dietetics	Autumn	8
BND435	Food Services and Dietetics Management	Autumn	8
BND437	Practical Studies in Nutrition and Dietetics	Autumn/Spring / Annual	24

\* Suggested elective subjects for a "public health" emphasis to the degree program.

# Students who undertake BMS304 would also be able to undertake population health nutrition projects.

### Honours

Students should consult the Department about the requirements for Honours.

### Professional Recognition

Graduates are eligible for membership of the Dieticians Association of Australia and professional recognition as a Dietician/Nutritionist.

### Other Information

See section on Criminal Record Checks and Infectious Diseases at the end of this chapter.

## Bachelor of Nutrition and Dietetics / TAFE Certificate IV in Hospitality (Catering Operations)

Testamur Title of Degree:	Bachelor of Nutrition and Dietetics/ TAFE Certificate IV in Hospitality (Catering Operations)
Abbreviation:	BNutrDiet / TAFE Cert IV Hosp (Catering Operations)
Home Faculty:	Health and Behavioural Sciences
Duration:	5 years full-time
Total Credit Points:	192 cp plus 764 hrs TAFE
Delivery Mode:	Face-to-Face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	865
UAC Code:	757647
CRICOS Code:	Not applicable

### Overview

This 5-year program allows students to graduate with both a Bachelor of Nutrition and Dietetics and the TAFE Certificate IV in Hospitality (Catering Operations). Undertaking the two programs separately would normally take 6 years. Graduates would be eligible for membership of the Dieticians Association of Australia (DAA) and practice as professional Dieticians. Graduates also would be eligible to be members of the Institute of Hospitality and Healthcare.

Prospective students should consult the Course Coordinator about their enrolment.

### Entry Requirements / Assumed Knowledge

Domestic School leavers are assumed to have completed any two units of English, plus four units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 (minimum) for reading, writing, speaking and listening.

### Other Information

Students are advised to consult the course coordinator about subject selection and enrolment in the TAFE component.

For information on Criminal record checks and infectious diseases, refer to the section at the end of this chapter.

## Bachelor of Psychology

Testamur Title of Degree:	Bachelor of Psychology
Abbreviation:	BPsyc

## Course Information

Home Faculty:	Health and Behavioural Sciences
Duration:	4 years
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Normally Autumn session
Location:	Wollongong
UOW Course Code:	866
UAC Code:	757652
CRICOS Code:	026184F

## Overview

Psychology is the scientific study of human behaviour and experience, the physiological, sensory and cognitive processes that underlie it, and the profession that applies this knowledge to practical problems. Psychologists help us to understand who we are and how we think, feel, act and change. They aim to help people function better, and to prevent ill-health and other problems developing. Psychologists' clients include children, adults, couples, families and organisations.

The Bachelor of Psychology offered by the University of Wollongong is a four year undergraduate Honours degree accredited by the Australian Psychological Society (APS). The Bachelor of Psychology is a route to Postgraduate coursework or research degrees in Psychology. It is also a partial qualification for registration as a Psychologist with the Psychologists' Registration Board of New South Wales, a post degree supervision period also being required.

## Entry Requirements / Assumed Knowledge

Domestic School Leavers are assumed to have completed at least 2 units of English at HSC level. International students are required to have achieved an IELTS score of 6.5, with at least 6.0 in reading, writing, speaking and listening.

## Course Requirements

For students entering 100-level in 2002 or later, continuation in the course requires, in the psychology subjects approved for the degree, an average result of at least 70% at the end of 100-level, a cumulative average of 70% for 100 & 200-level subjects at the end of 200-level, and a cumulative average of 70% for 200 & 300-level subjects at the end of 300-level.

## Course Program

Subjects (by year)		Session	Credit Points
PSYC121	Foundations in Psychology A	Autumn	6
PSYC122	Foundations in Psychology B	Spring	6
PSYC123	Theory, Design and Statistics in Psychology	Spring	6
PSYC247	Statistics and Measurement I	Autumn	6
PSYC248	Statistics and Measurement II	Spring	6
PSYC231	Personality	Autumn	6
PSYC234	Biological Psychological and Learning	Autumn	6
PSYC236	Cognition and Perception	Spring	6
PSYC241	Developmental and Social Psychology	Spring	6
PSYC315	Psychology of Abnormality	Autumn	8
PSYC348	History and Metatheory of Psychology	Spring	8
PSYC354	Design and Analysis	Spring	8

*Plus three elective subjects at 300-level, including at least one of the following:*

PSYC317	Current Issues in Learning and Judgement	Autumn	8
PSYC345	Memory and Language	Spring	8
PSYC349	Visual Perception	Autumn	8
PSYC352	Psychophysiology	Spring	8

*And may include:*

PSYC347	Assessment and Intervention	Autumn	8
PSYC318	Change Throughout the Lifespan	Spring	8
PSYC350	Social Behaviour and Individual Differences	Autumn	8

*In addition, a further 42 credit points across 100, 200 and 300 levels must be taken from the Health and Behavioural Sciences, Science or General Schedules. Students may include PSYC101 Introduction to Behavioural Science as an elective.*

## 400-Level

Students will study in either the Honours or Non-Honours stream. Places within the Honours stream are limited, therefore entry will be on a competitive basis. All students who do not successfully gain entry into Honours will be enrolled in the Non-Honours stream provided they have satisfied the credit level performance to remain in the program.

## Honours

The Honours program is made up of:

1. an empirical thesis, consisting of a supervised research project and presented as a 9000 to 12,000 word thesis;
2. a research seminar;
3. an advanced methodology subject (21%), in turn consisting of 2 seminars:  
Psychology Honours Theory\*, and Topics in Data Analysis;
4. Contemporary Issues for Professional and Research Psychologists GHMC988;
5. one of a range of specified postgraduate psychology subjects\*;
6. the Honours Meeting.

*\* A minor theoretical thesis is available in place of Psychology Honours Theory seminar and the Psychology Postgraduate subject.*

Candidates intending to complete Honours as part-time students will generally do advanced methodology, GHMC988 and the theoretical thesis or optional postgraduate subject in the first year, and the empirical thesis and research seminar in the second.

## Non-Honours

This program is made up of:

1. A research project, consisting of a 9,000 word supervised thesis;
2. Social Psychology and Health Psychology GHMC984;
3. Contemporary Issues for Professional and Research Psychologists GHMC988;
4. Principles and Practices of Psychological Assessment GHMC985;
5. Advanced Abnormal Psychology GHMC989; and
6. Child and Adolescent Psychology GHMC978.

## Professional Recognition

Our degrees are set up to meet the requirements of external bodies such as the APS and the NSW Registration Board, but for information about these professional bodies, their regulations, and about post university practice as a psychologist, please contact these bodies directly.

## Bachelor of Science

Testamur Title of Degree:	Bachelor of Science
Abbreviation:	BSc
Home Faculty:	Health and Behavioural Sciences
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Normally autumn session
Location:	Wollongong
UOW Course Code:	749
UAC Code:	See UAC code under specific major
CRICOS Code:	020187G

## Overview

The Bachelor of Science offered by the Faculty of Health and Behavioural Sciences, course code 749, offers students the opportunity to enrol in a major or double major in a number of disciplines, including Exercise Science, Nutrition, Population Health, and Psychology. Students also may choose a second major from outside the Faculty, such as Biology, Biostatistics, Chemistry, Human Geography, Management, Marketing and others.

## Assumed Knowledge

Domestic School Leavers are assumed to have completed at least 2 units of English at HSC level. Some majors also assume that students have completed 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

## Course Requirements

The Bachelor of Science, Course code 749, is comprised of 144 credit points of subjects listed in the subject schedule for majors in the Faculty of Health and Behavioural Sciences, plus additional elective subjects chosen from the Health and Behavioural Sciences, Science or the General Schedules. For some double majors, more than 144 credit points of subjects

may need to be completed. Subjects to a value of at least 90 credit points of subjects must be selected from the Health and Behavioural Sciences schedules. Students may undertake no more than 60 credit points of 100-level subjects. Students should refer to the Award Rules for the Bachelor of Science, course code 749.

## Honours

The Bachelor of Science (Honours) is designed to provide students with skills to demonstrate excellence in research with a clear understanding of a research question in relation to current knowledge. The degree program fosters the following abilities and skills: plan, design and perform a research project; collect and analyse data; evaluate data; synthesise results and integrate with relevant ideas and concepts; communicate; and put relevant principles into practice.

Entry into the Bachelor of Science (Hons) requires the student to have attained at least a credit average in subjects undertaken during their undergraduate degree. The Postgraduate coordinator and prospective supervisor will determine whether a student's 300-level subjects are appropriate for entry into the Bachelor of Science (Hons). In addition, admission to the Bachelor of Science (Hons) will be dependent upon the availability of an appropriate supervisor, who must be identified by the applicant before applying for entry. Students considering enrolment in BSc(Hons) should first contact the Department's Postgraduate Coordinator.

## Major Study Areas

Exercise Science  
Exercise Science and Nutrition  
Nutrition  
Nutrition and Chemistry  
Population Health  
Population Health And Human Geography  
Population Health and Psychology  
Population Health And Statistics  
Psychology  
Psychology and Biology  
Psychology and Exercise Science  
Psychology and Nutrition

### *Exercise Science (UAC Code 757642)*

The Exercise Science major provides a general introduction to the area of exercise science through the study of anatomy, physiology, exercise physiology, exercise prescription and biomechanics. Students will gain a basic understanding of the anatomical and physiological basis of human motion and the effect of exercise, injury and disease on human performance in sport, industry and in daily living.

## Assumed Knowledge

Domestic School Leavers are assumed to have completed at least 2 units of English at HSC level and 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

## Major Study

The Exercise Science Major consists of 144 credit points, as outlined in the course structure below.

## Double Majors

Students may undertake double majors in:  
Exercise Science and Nutrition (see below)  
Exercise Science and Management (Students should consult an academic adviser in both Faculties)

## Professional Recognition

Graduates may become full members of the Australian Association for Exercise and Sports Science (AAESS) although further study may be required to achieve professional accreditation.

## Credit Towards Other Courses

This degree represents the first 3 years of the 4-year professional Bachelor of Exercise Science and Rehabilitation degree program. Graduates are trained to utilise exercise as an intervention to maintain health and fitness in healthy individuals.

## Course Program

Subjects		Session	Credit Points
Year 1			
BMS101	Systemic Anatomy	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6

CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC101	Introduction to Behavioural Science	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics	Spring	6
<b>Year 2</b>			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BMS211	Foundations of Biomechanics	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
PSYC216	Psychology of Physical Activity	Autumn	6
BMS203	Musculoskeletal Functional Anatomy	Spring	6
BMS204	Introduction to Pathophysiology	Spring	6
BMS242	Exercise Physiology	Spring	6
	<i>Plus a further 6 cp from</i>		
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
MGMT102	Business Communications	Autumn	6
POP101	Population Health - Current Health Issues and their Determinants	Spring	6
POP220	Mass Media and Population Health	Autumn	6
<b>Year 3</b>			
BEXS351	Exercise Prescription 1: Strength and Conditioning	Spring	8
BMS342	Advanced Exercise Physiology	Autumn	8
BEXS352	Exercise Prescription 2: Aerobic Fitness	Autumn	8
	<i>Plus a further 24 cp from</i>		
BMS354#	Practicum in Exercise Science	Annual	8
BMS302	Research Topics	Autumn/Spring	8
BMS344	Cardiorespiratory Physiology	Autumn	8
BMS352	Fundamentals of Neuroscience	Autumn	8
BEXS401	Ergonomics	Autumn	8
BMS300	Regional Anatomy	Spring	8
BMS303	Research Topics in Exercise Science	Autumn/Spring	8
BMS341	Clinical Biomechanics	Spring	8
BMS345	Advanced Topics in Pathophysiology	Spring	8
BMS346	Motor Control and Dysfunction	Spring	8
	Or other approved subjects		

# Pre-requisite: BMS203, BMS242. This subject is for BSc (Exercise Science) and BSc (Exercise Science and Nutrition) students only.

### Other Information

Within the degree of 144 credit points subjects to the value of at least 90 credit points must be selected from the Health and Behavioural Sciences or Science Schedules.

### Exercise Science and Nutrition (UAC Code 757646)

This double major, Exercise Science and Nutrition, represents the first 3 years of an integrated five-year nested undergraduate and postgraduate program of study, with the Master of Science (Nutrition/Dietetics and Exercise Science), designed to produce a combined Dietician and Exercise Science practitioner who has professional accreditation from both the Dietitians Association of Australia (DAA) and the Australian Association for Exercise and Sports Science (AAESS).

### Assumed Knowledge

Domestic School Leavers are assumed to have completed at least 2 units of English at HSC level and 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

### Major Study

The Nutrition and Exercise Science Major consists of 150 credit points, as outlined in the course structure below.

### Honours

See entry under Bachelor of Science

### Professional Recognition

After completion of the Masters program (5 years) students will be able to apply for professional accreditation from the DAA and AAESS.

### Course Program

Subjects		Session	Credit Points
<b>Year 1</b>			
BMS101	Systemic Anatomy	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6

## Course Information

CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC101	Introduction to Behavioural Science	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics	Spring	6
<b>Year 2</b>			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BMS211	Foundations of Biomechanics	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
CHEM215	Food Chemistry	Autumn	6
BMS203	Musculoskeletal Functional Anatomy	Spring	6
BMS242	Exercise Physiology	Spring	6
BMS210	Measurement and Assessment of Diet and Activity	Spring	6
<i>Plus a further 6 cp from</i>			
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
POP222	Current Issues in Food and Nutrition	Spring	6
<b>Year 3</b>			
BMS310	Community and Public Health Nutrition	Autumn	8
BMS311	Nutrients and Metabolism	Autumn	8
BMS312	Research in Human Nutrition	Autumn/Annual	8
BEXS351	Exercise Prescription 1: Strength and Conditioning	Spring	8
BEXS352	Exercise Prescription 2: Aerobic Conditioning	Autumn	8
BMS346	Motor Control and Dysfunction	Spring	8

*Note: If students do not intend to enrol in the MSc (Nutrition and Dietetics and Exercise Rehabilitation) on graduation and wish to qualify for full membership of the professional exercise science association (AAESS), they should complete BMS354 Practicum in Exercise Science instead of BMS204.*

## Nutrition UAC Code 757645

The major in Nutrition provides a general education in the study of human nutrition with core areas of study including biochemistry, nutritional metabolism and community and public health nutrition. The major is designed to meet the prerequisite requirements for admission to the Master of Science (Nutrition and Dietetics) and recognition by the Dietitians Association of Australia (DAA) as a professional Dietician/Nutritionist.

Students who have achieved a credit average in the first two and a half years of this degree will be permitted to apply to transfer into the Bachelor of Nutrition and Dietetics.

## Assumed Knowledge

Domestic school leavers are assumed to have completed at least 2 units of English at HSC level and 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.0 with at least 6.0 in reading and writing, and at least 5.0 in listening and speaking. Alternative pathways exist for mature age domestic students.

## Major Study

The Nutrition Major consists of 144 credit points, as outlined in the course structure below.

## Honours

See entry under Bachelor of Science

## Course Program

Subjects		Session	Credit Points
Year 1			
BMS101	Systemic Anatomy	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics	Spring	6
PSYC101	Introduction to Behavioural Science	Autumn	6
Or			
SOC103	Sociology A: Aspects of Australian Society	Autumn	6
Year 2			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
CHEM215	Food Chemistry	Autumn	6
POP222	Current Issues in Food and Nutrition	Spring	6

BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
MGMT102	Business Communications	Autumn	6
<i>Plus a further 12 cp from</i>			
BMS204	Introduction to Pathophysiology	Spring	6
POP101*	Population Health - Current Health Issues and their Determinants	Spring	6
Or other approved subjects			

**Year 3**

BMS311	Nutrients and Metabolism	Autumn	8
BMS310	Community and Public Health Nutrition	Autumn	8
BMS312	Research in Human Nutrition	Autumn/Annua l	8
PHIL380	Bioethics	Spring	8
<i>Plus a further 16 cp from</i>			
BMS300	Regional Anatomy	Spring	8
BMS302	Research Topics	Spring	8
BMS345	Advanced Topics in Pathophysiology	Spring	8
BMS346	Motor Control and Dysfunction	Spring	8
POP204	Epidemiology	Spring	6
POP221	Behaviour Change for Population Health	Spring	6
Or other approved subjects			

\* Suggested elective subjects for a "Public Health" emphasis to the degree.

**Nutrition and Chemistry**

This 144 credit point program of study fulfils the requirement for a double major in Nutrition and Chemistry. The subjects are mostly selected from the Faculty of Health and Behavioural Sciences and the Sciences Schedules.

**Entry Requirements / Assumed Knowledge**

Domestic School Leavers are assumed to have completed at least 2 units of English at HSC level and 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking.

Alternative pathways exist for mature age domestic students.

**Course Program**

Subjects		Session	Credit Points
Year 1			
BMS101	Systemic Anatomy	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics	Spring	6
PSYC101	Introduction to Behavioural Science	Autumn	6
Or			
SOC103	Sociology A: Aspects of Australian Society	Autumn	6
Year 2			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
CHEM215	Food Chemistry	Autumn	6
POP222	Current Issues in Food and Nutrition	Spring	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
CHEM211	Inorganic Chemistry II	Autumn	6
CHEM212	Organic Chemistry II	Autumn	6
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
Year 3			
BMS311	Nutrients and Metabolism	Autumn	8
BMS310	Community and Public Health Nutrition	Autumn	8
Plus one subject from the following:			
BMS312	Research in Human Nutrition	Autumn/Annua l	8
PHIL380	Bioethics	Spring	8
BMS301	Regional Anatomy	Spring	8
BMS302	Research Topics	Spring	8
BMS345	Advanced Topics in Pathophysiology	Spring	8
BMS346	Motor Control and Dysfunction	Spring	8
Plus three subjects (24 credit points) from the following:			
CHEM311	Inorganic Chemistry III	Spring	8
CHEM314	Instrumental Analysis	Autumn	8
CHEM320	Biological Chemistry	Spring	8
CHEM321	Organic Synthesis and Reactivity	Spring	8
CHEM327	Environmental Chemistry	Autumn	8



## Course Information

CHEM340	Chemistry Laboratory Project	Autumn/Spring / Summer	8
CHEM364	Molecular Structure and Spectroscopy	Autumn	8

## Other Information

Students are advised to consult an academic adviser in each discipline about subject selection

### Population Health UAC Code 757648

The Bachelor of Science (Population Health) aims to train students in skills to obtain, review and analyse health information, to plan and manage a health project and to improve the health of populations. The program is designed to do two main things. Firstly, students will learn the basics of the health sector and develop an understanding of the problems involving health, illness, treatment and welfare.

Secondly, some useful skills are developed such as analysing information, researching with people, developing policy, project management and writing for a range of purposes, such as report writing and writing for the media. This means that when you graduate, there are many possibilities with regard to jobs, especially if you take population health in conjunction with another specialty area, such as psychology, nutrition, exercise science, statistics, economics or politics.

## Assumed Knowledge

Domestic school leavers are assumed to have completed at least 2 units of English at HSC level. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

## Major Study

The Population Health Major consists of 88 credit points, as outlined in the course structure below, together with other subjects which may be selected from the Health & Behavioural Sciences, Science or General Schedules to make up the 144 credit points required for the degree. At least 90 credit points must be chosen from subjects offered by the Faculty of Health and Behavioural Sciences and the Sciences Schedules.

## Double Majors

Students may undertake a double major in:

- Population Health and Human Geography
- Population Health and Psychology
- Population Health and Statistics

## Honours

See entry under Bachelor of Science

## Course Program

Subjects		Session	Credit Points
<b>100 Level</b>			
BMS103	Human Growth Nutrition and Exercise	Autumn	6
POP101	Population Health - Current Issues and their Determinants	Spring	6
STAT151	Introduction to the Concepts & Practice of Statistics	Spring	6
<i>and one of</i>			
ABST150	Introduction to Aboriginal Australia	Autumn/Spring	6
<i>Or</i>			
POP103	Introduction to Health Behaviour Change	Spring	6
<b>200 Level</b>			
POP201	Contemporary Population Health Issues	Autumn	6
POP202	Promoting Healthy Lifestyles	Autumn	6
POP203	Health Policy	Spring	6
POP204	Epidemiology	Spring	6
<b>300 Level</b>			
POP301	Project and Program Design, Management and Evaluation	Autumn	8
POP302	Analysis and Interpretation of Evidence	Autumn	8
POP331	Population Health Project A	Autumn/Spring / Annual	24

*\* Students taking a joint major with another specialisation should take POP332 Population Health Project B, 8 credit points. Note - students can include additional subjects in Population Health in their degree, including:*

POP102	Sex, Drugs and Rock'n'Roll: public health perspectives	Autumn	6
POP220	Mass Media and Population Health	N/O 2005	6
POP325	Aboriginal Health Issues	Spring	8
POP221			

*Note: Subjects to the value of at least 90 credit points must be selected from the Health and Behavioural Sciences and the Science Schedules. Subjects to the value of 144 credit points are required for the degree.*

## Other Information

Double degree programs (e.g. with commerce or nursing) are also possible.

### Population Health And Human Geography UAC Code 757648

The double major in Population Health and Human Geography consists of a minimum of 144 credit points, which comprises all of the subjects in each of the individual majors. If students wish to undertake honours in Human Geography at the end of the double major degree, additional subjects are required. Students should consult the entry in the Faculty of Science and consult an academic adviser in Geosciences.

The double major in Population Health and Human Geography enables students to pursue two options for their career or further study. The combination of majors is particularly relevant for students who may wish to work in rural or community development or local level social/health policy and planning, for example within local governments.

### Entry Requirements / Assumed Knowledge

Domestic school leavers are assumed to have completed at least 2 units of English at HSC level and 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

### Course Program

Subjects		Session	Credit Points
<b>100 Level</b>			
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
POP101	Population Health - current health issues and their determinants	Spring	6
STAT151	Introduction to the Concepts and Practice of Statistics	Spring	6
SOC103	Aspects of Australian Society	Autumn	6
EESC104	The Human Environment: problems and change	Spring	6
SOC104	Communication, Media and Society	Spring	6
<i>and one of</i>			
ABST150	Introduction to Aboriginal Australia	Autumn	6
<i>Or</i>			
POP103	Introduction to Health Behaviour Change	Spring	6
<i>plus one elective</i>			
<b>200 Level</b>			
POP201	Contemporary Population Health Issues	Autumn	6
POP202	Promoting Health Lifestyles	Autumn	6
EESC205	Population Studies	Autumn	6
SOC242	Contemporary Issues in Society	Autumn	6
POP204	Epidemiology	Spring	6
EESC204	Introduction to Spatial Science	Spring	6
EESC206	Environmental Impact of Societies	Spring	6
EESC208	Social Spaces	Spring	6
<b>300 Level</b>			
POP301	Project and Program Design, Management and Evaluation	Autumn	8
POP302	Analysis and Interpretation of Evidence	Autumn	8
POP332	Population Health Project B	Spring	8
EESC307	Spaces, Places and Identities	Autumn	8
<i>and two of</i>			
EESC350	Directed Studies in Earth and Environmental Sciences	Autumn/Spring	8
EESC304	Geographic Information Science	Spring	8
EESC308	Environmental and Heritage Management	Spring	8

### Population Health and Psychology UAC Code 757648 or 757651

The double major in Population Health and Psychology enables students to pursue two options for their career or further study. Students may progress to advanced level study such as honours or postgraduate courses in either field. In addition, the combination of majors will enable graduates to apply for jobs in specialist areas of population health, such as lifestyle counselling or conduction lifestyle management programs.

### Entry Requirements / Assumed Knowledge

Domestic School Leavers are assumed to have completed at least 2 units of English at HSC level. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

### Professional Recognition

To apply for registration as a professional psychologist with the Psychologists Registration Board of NSW it is necessary to complete an accredited 4-year course of study plus 2 years' supervised practice. Accreditation with the Australian Psychological Society, the national professional association, requires 6 years of approved academic study.

## Double Major

The double major in Population Health and Psychology consists of a minimum of 144 credit points, which comprises all of the subjects in each of the individual majors. If students wish to undertake honours in Psychology at the end of the double major degree, additional subjects are required. Students should consult the information on Honours in the entry for the Psychology major.

## Course Program

Subjects		Session	Credit Points
<b>100 Level</b>			
ABST150	Introduction to Aboriginal Australia	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
PSYC121	Foundations of Psychology A	Autumn	6
POP101	Population Health - current health issues and their determinants	Spring	6
POP103	Introduction to Health Behaviour Change	Spring	6
PSYC122	Foundations of Psychology B	Spring	6
PSYC123	Theory, Design and Statistics in Psychology	Spring	6

and one elective

<b>200 Level</b>			
POP201	Contemporary Population Health Issues	Autumn	6
PSYC231	Personality	Autumn	6
PSYC234	Biological Psychology and Learning	Autumn	6
PSYC247	Statistics and Measurement 1	Autumn	6
POP203	Health Policy	Spring	6
POP204	Epidemiology	Spring	6
PSYC236	Cognition and Perception	Spring	6
PSYC241	Developmental and Social Psychology	Spring	6

*Note: Psychology Honours also requires that PSYC248 Statistics and Measurement 2 be taken.*

<b>300 Level</b>			
POP301	Project and Program Design, Management and Evaluation	Autumn	8
POP302	Analysis and Interpretation of Evidence	Autumn	8
POP332	Population Health Project B	Spring	8
PSYC315	Psychology of Abnormality	Spring	8
<i>And two electives, of which there must be at least one of the following:</i>			
PSYC317	Current Issues in Learning and Judgement	Autumn	8
PSYC345	Memory and Language	Spring	8
PSYC349	Visual Perception	Autumn	8
PSYC352	Psychophysiology	Spring	8

*And may include*

PSYC347	Assessment and Intervention	Autumn	8
PSYC350	Social Behaviour and Individual Differences	Autumn	8
PSYC318	Change Throughout the Lifespan	Spring	8
PSYC348	History and Metatheory of Psychology	Spring	8
PSYC354	Design and Analysis	Spring	8

*Note: Students wishing to take Psychology Honours should consult the information on Honours listed under the single Major, Psychology, to ensure they complete the required subjects.*

## Other Information

Subjects to the value of at least 90 credit points must be selected from the Health and Behavioural Sciences or Science Schedules. Subjects to the value of 144 credit points are required for the degree.

### Population Health And Statistics UAC Code 757648

The double major in Population Health and Statistics enables students to pursue two options for their career or further study. The combination of majors is particularly relevant for students who may wish to work in the area of health surveillance, survey work, research or health services planning. This combination of study areas is unique to the University of Wollongong and reflects an area of high demand in the population health field.

## Entry Requirements / Assumed Knowledge

Domestic School Leavers are assumed to have completed at least 2 units of English at HSC level. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

Students should consult the information in the Informatics Faculty Handbook concerning Assumed Knowledge and Recommended Studies for entry into the Statistics major.

## Double Major

The double major in Population Health and Statistics consists of a minimum of 144 credit points, which comprises all of the subjects in each of the individual majors. If students wish to undertake honours in statistics at the end of the double major degree, additional subjects are required.

## Course Program

Subjects		Session	Credit Points
<b>100 Level</b>			
ABST150	Introduction to Aboriginal Australia	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
POP103	Introduction to Health Behaviour Change	Spring	6
POP101	Population Health - current health issues and their determinants	Spring	6
<i>Plus one elective</i>			
<b>200 Level</b>			
POP201	Contemporary Population Health Issues	Autumn	6
POP202	Promoting Healthy Lifestyles	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
POP203	Health Policy	Spring	6
POP204	Epidemiology	Spring	6
STAT232	Estimation and Hypothesis Testing	Spring	6
<i>And at least one 200-level MATH subject (MATH201, MATH202, MATH203, MATH204, MATH212, MATH222, MATH291, MATH292, MATH293 or MATH294)</i>			
<b>300 Level</b>			
POP301	Project and Program Design, Management and Evaluation	Autumn	8
POP302	Analysis and Interpretation of Evidence	Autumn	8
POP332	Population Health Project B	Spring	8
STAT333	Statistical Inference and Multivariate Analysis	Autumn	6
STAT304	Operations Research and Applied Probability	Spring	6
STAT332	Multiple Regression and Time Series	Spring	6
<i>and</i>			
STAT335	Sample Surveys and Experimental Design	Autumn	6
<i>or</i>			
STAT355	Sample Surveys and Experimental Design (with project)	Autumn	8

## Psychology UAC Code 757651

### Single Major

Psychology is the scientific study of human behaviour and experience, the physiological, sensory and cognitive processes that underlie it, and the profession that applies this knowledge to practical problems. Psychologists help us to understand who we are and how we think, feel, act and change. They aim to help people function better, and to prevent ill-health and other problems developing. Psychologists' clients include children, adults, couples, families and organisations.

### Entry Requirements / Assumed Knowledge

Domestic school leavers are assumed to have completed at least 2 units of English at HSC level. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

### Major Study

Students of the BSc will complete the program of study outlined below for a major in Psychology. Additional subjects should be taken in line with the degree requirements to complete the degree.

### Double Majors

Students may undertake a double major in:

- Population Health and Psychology
- Psychology and Biology
- Psychology and Exercise Science
- Psychology and Nutrition

### Honours

Honours in Psychology is a fourth year of study accredited by the Australian Psychological Society (APS). It is offered on a one year full-time or two year part-time basis. Psychology Honours is a route to the Postgraduate coursework or research degrees in Psychology. It is also a partial qualification for registration as a Psychologist with the Psychologist's Registration Board of New South Wales, a post degree supervision period also being required. Graduates of the University of Wollongong with a major in Psychology are eligible for admission to Psychology Honours provided that: they have completed an undergraduate degree curriculum with a major in psychology; they have completed PSYC348 History and Metatheory of Psychology and PSYC354 Design and Analysis (and thus any 200- level prerequisites for PSYC354); they have completed at least 76 credit points of Psychology subjects at 200- and 300- levels; they have at least a credit average for Psychology subjects at 200- and 300- levels.

### Professional Recognition

To apply for registration as a professional psychologist with the Psychologists Registration Board of NSW it is necessary to complete an accredited 4-year course of study plus 2 years supervised practice. Accreditation with the Australian Psychological Society, the national professional association, requires 6 years of approved academic study.

## Course Program

Subjects		Session	Credit Points
PSYC121	Foundations in Psychology A	Autumn	6
PSYC122	Foundations in Psychology B	Spring	6
PSYC123	Theory, Design and Statistics in Psychology	Spring	6
PSYC247	Statistics and Measurement 1	Autumn	6
PSYC231	Personality	Autumn	6
PSYC241	Developmental and Social Psychology	Spring	6
PSYC234	Biological Psychology and Learning	Autumn	6
PSYC236	Cognition and Perception	Spring	6
PSYC315	Psychology of Abnormality	Spring	8
<i>And two electives, of which there must be at least one of the following:</i>			
PSYC317	Current Issues in Learning and Judgement	Autumn	8
PSYC345	Memory and Language	Spring	8
PSYC349	Visual Perception	Autumn	8
PSYC352	Psychophysiology	Spring	8
<i>And may include:</i>			
PSYC248	Statistics and Measurement 2	Spring	6
PSYC347	Assessment and Intervention	Autumn	8
PSYC350	Social Behaviour and Individual Differences	Autumn	8
PSYC318	Change Throughout the Lifespan	Spring	8
PSYC348	History and Metatheory of Psychology	Spring	8
PSYC354	Design and Analysis	Spring	8

## Other Information

Subjects to the value of at least 90 credit points must be selected from the Health and Behavioural Sciences or Science Schedules. Subjects to the value of 144 credit points are required for the degree.

### Psychology and Biology

To complete requirements for the double major in Psychology and Biology, students are required to complete a minimum of 150 credit points of subjects, as outlined in the schedule below.

### Entry Requirements / Assumed Knowledge

Domestic school leavers are assumed to have completed at least 2 units of English at HSC level and 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

### Honours

Students must complete additional Psychology subjects if they wish to undertake Honours in Psychology. Students should consult the information under Honours in the entry on the Psychology major.

### Professional Recognition

To apply for registration as a professional psychologist with the Psychologists Registration Board of NSW it is necessary to complete an accredited 4 year course of study plus 2 years supervised practice. Accreditation with the Australian Psychological Society, the national professional association, requires 6 years of approved academic study.

## Course Program

Subjects		Session	Credit Points
<b>Year 1</b>			
PSYC121	Foundations in Psychology A	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC122	Foundations in Psychology B	Spring	6
PSYC123	Theory, Design and Statistics in Psychology	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity and Environment	Autumn	6
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry (or CHEM105)	Spring	6
<i>And one Elective subject</i>		Autumn	6
<b>Year 2</b>			
PSYC247	Statistics and Measurement 1	Autumn	6
PSYC231	Personality	Autumn	6
PSYC234	Biological Psychology and Learning	Autumn	6
PSYC236	Cognition and Perception	Spring	6

PSYC241	Developmental and Social Psychology	Spring	6
<i>Plus 4 subjects (24 credit points) from the following:</i>			
BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BIOL215	Introductory Genetics	Spring	6
BIOL240	Functional Biology of Plants and Animals	Autumn	6
BIOL241	Biodiversity: Classification and Sampling	Spring	6
BIOL251	Principles of Ecology and Evolution	Autumn	6
MARE200	Introduction to Oceanography	Autumn	6
<b>Year 3</b>			
PSYC315	Psychology of Abnormality	Autumn	8
<i>And two electives, which must include at least one of the following:</i>			
PSYC317	Current Issues in Learning and Judgement	Autumn	8
PSYC345	Memory and Language	Spring	8
PSYC349	Visual Perception	Autumn	8
PSYC352	Psychophysiology	Spring	8
<i>And may include:</i>			
PSYC318	Change Throughout the Lifespan	Spring	8
PSYC347	Assessment and Intervention	Autumn	8
PSYC348	History and Metatheory of Psychology	Spring	8
PSYC350	Social Behaviour and Individual Differences	Autumn	8
PSYC354	Design and Analysis	Spring	8
<i>Plus three subjects (24 credit points) from the following:</i>			
BIOL303	Biotechnology: Applied Cell & Molecular Biology	Autumn	8
BIOL320	Molecular Cell Biology	Autumn	8
BIOL321	Cellular and Molecular Immunology	Spring	8
BIOL351	Conservation Biology: Marine and Terrestrial Populations	Autumn	8
BIOL355	Marine and Terrestrial Ecology	Spring	8
BIOL391	Advanced Biology	Autumn/ Spring/Summer	8
BIOL392	Advanced Biology Project	Autumn/ Spring/Summer	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8

## Other Information

Students are advised to consult an academic adviser in each discipline about subject selection.

Students intending to qualify for an Honours year in Psychology should complete the extra subjects required. Consult the information on Honours under Bachelor of Science (Psychology).

## Psychology and Exercise Science

The Psychology and Exercise Science major gives students an opportunity to broaden their expertise, adding a relevant second major to their core focus. The degree requires a minimum of 3 years of full time study and the completion of at least 150 credit points as outlined in the Schedule below.

## Entry Requirements / Assumed Knowledge

Domestic school leavers are assumed to have completed at least 2 units of English at HSC level and 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

## Honours

Students may consider Honours in either Psychology or Exercise Science. Students should consult the information on Honours under the Bachelor of Science.

## Professional Recognition

The double major is designed to meet the requirements for entry into Year 4 of the Psychology program within the Department of Psychology, and the Honours program in the Department of Biomedical Science.

## Course Program

Subjects		Session	Credit Points
<b>Year 1</b>			
BMS101	Systemic Anatomy	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC121	Foundations of Psychology A	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
PSYC122	Foundations of Psychology B	Spring	6
PSYC123	Theory, Design and Statistics in Psychology	Spring	6
<b>Year 2</b>			

## Course Information

BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BMS203	Musculoskeletal Functional Anatomy	Autumn	6
BMS211	Foundations of Biomechanics	Autumn	6
PSYC247	Statistics and Measurement 1	Autumn	6
PSYC231	Personality	Autumn	6
PSYC234	Biological Psychology and Learning	Autumn	6
BMS242	Exercise Physiology	Spring	6
PSYC241	Developmental and Social Psychology	Spring	6
PSYC236	Cognition and Perception	Spring	6

### Year 3

BMS342	Advanced Exercise Physiology	Autumn	8
BEXS352	Exercise Prescription 2: Aerobic Fitness	Autumn	8
BEXS351	Exercise Prescription 1: Strength and Conditioning	Spring	8
PSYC315	Psychology of Abnormality	Autumn	8

*And two electives which must include at least one of the following:*

PSYC317	Current Issues in Learning and Judgement	Autumn	8
PSYC345	Memory and Language	Spring	8
PSYC349	Visual Perception	Autumn	8
PSYC352	Psychophysiology	Spring	8

*And may include:*

PSYC318	Change Throughout the Lifespan	Spring	8
PSYC347	Assessment and Intervention	Autumn	8
PSYC348	History and Metatheory of Psychology	Spring	8
PSYC350	Social Behaviour and Individual Differences	Autumn	8
PSYC354	Design and Analysis	Spring	8

Students should consult an academic adviser in each program about appropriate sequencing of subjects.

## Other Information

Students intending to qualify for an Honours year in Psychology should complete the extra subjects required. Consult the information on Honours under Bachelor of Science (Psychology).

### Psychology and Nutrition

This degree is designed to meet the requirements for entry into Year 4 of the Psychology or the Honours program within the Department of Biomedical Science. The double major has a minimum requirement of 150 credit points of subjects as outlined in the Schedule below.

### Entry Requirements / Assumed Knowledge

Domestic school leavers are assumed to have completed at least 2 units of English at HSC level and 4 units of Science and/or Maths. International students are required to have achieved an IELTS score of 6.5 with at least 6.0 in reading, writing, listening and speaking. Alternative pathways exist for mature age domestic students.

### Honours

Students intending to undertake Honours in Psychology should complete the extra subjects required and should consult the information on Honours listed under the Bachelor of Science (Psychology) major.

## Course Program

Subjects		Session	Credit Points
Year 1			
BMS101	Systemic Anatomy	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC121	Foundations of Psychology A	Autumn	6
BMS112	Human Physiology: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
PSYC122	Foundations of Psychology B	Spring	6
PSYC123	Theory, Design and Statistics in Psychology	Spring	6
Year 2			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
CHEM215	Food Chemistry	Autumn	6
PSYC247	Statistics and Measurement 1	Autumn	6

PSYC231	Personality	Autumn	6
PSYC234	Biological Psychology and Learning	Autumn	6
BIOL214	Metabolic Biochemistry	Spring	6
PSYC241	Developmental and Social Psychology	Spring	6
PSYC236	Cognition and Perception	Spring	6

*Further elective:*

PSYC248	Statistics and Measurement 2	Autumn	6
---------	------------------------------	--------	---

**Year 3**

BMS311	Nutrients and Metabolism	Autumn	8
BMS310	Community and Public Health Nutrition	Autumn	8
BMS312	Research in Human Nutrition	Autumn	8
PSYC315	Psychology of Abnormality	Autumn	8

*And two electives which must include at least one of the following:*

PSYC317	Current Issues in Learning and Judgement	Autumn	8
PSYC345	Memory and Language	Spring/Autumn	8
PSYC349	Visual Perception	Autumn/Spring	8
PSYC352	Psychophysiology	Spring	8

*And may include*

PSYC318	Change Throughout the Lifespan	Spring	8
PSYC347	Assessment and Intervention	Autumn	8
PSYC348	History and Metatheory of Psychology	Spring	8
PSYC350	Social Behaviour and Individual Differences	Autumn	8
PSYC354	Design and Analysis	Spring	8

**Other Information**

Students should consult an academic adviser in each program about appropriate sequencing of subjects. Students intending to qualify for an Honours year in Psychology should complete the extra subjects required. Consult the information on Honours under Bachelor of Science (Psychology).

## Bachelor of Science (Nutrition)

### TAFE Certificate IV in Hospitality (Catering Operations)

Testamur Title of Degree:	Bachelor of Science (Nutrition), TAFE Certificate IV in Hospitality (Catering Operations)
Abbreviation:	BSc(Nutr), TAFE Certificate IV in Hospitality
Home Faculty:	Health and Behavioural Sciences
Duration:	4 years full-time
Total Credit Points:	124 cp UOW; 764 hr TAFE
Delivery Mode:	Day
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	749
UAC Code:	757645
CRICOS Code:	Not applicable

**Overview**

The Bachelor of Science (Nutrition)/TAFE Certificate IV in Hospitality (Catering Operations) combined program provides a sound training in nutritional science and its applications to human nutrition, as well as practical food service management skills.

**Entry Requirements / Assumed Knowledge**

Domestic school leavers are assumed to have completed any two units of English, plus four units of Science and/or Maths. Recommended Studies: English Advanced. International students are required to have achieved an IELTS score of 6.5, with a level of 6 in reading, writing, speaking and listening.

**Course Requirements**

The Bachelor of Science (Nutrition)/TAFE Certificate IV in Hospitality (Catering Operations) combined program requires students to undertake 4 years of full-time study and the completion of at least 124 credit points from the University of Wollongong, and 764 hours at TAFE

**Honours**



See entry under Bachelor of Science

## Professional Recognition

Graduates would be eligible to be members of the Institute of Hospitality and Healthcare.

## Course Program

Subjects		Session	Credit Points
<b>Year 1</b>			
BMS101	Systemic Anatomy	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical & General Chemistry (or CHEM104)	Autumn	6
PSYC101	Introduction to Behavioural Science	Autumn	6
or			
SOC103	Sociology A: Aspects of Australian Society	Autumn	6
BMS103	Human Growth, Nutrition and Exercise	Autumn	6
BMS112	Human Physiology 1: Principles and Systems	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102	Chemistry 1B: Introductory Organic and Physical Chemistry (or CHEM105)	Spring	6
4500H	Hygiene		18 hr
4501M	Food Safety Systems		18 hr
4781C	Food Service Systems		36 hr
<b>Year 2</b>			
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
CHEM215	Food Chemistry	Autumn	6
MGMT102	Business Communications	Autumn	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
POP222	Current Issues in Food and Nutrition	Spring	6
STAT252	Statistics for the Natural Sciences	Spring	6
4500B	Food Preparation and Service		36 hr
4565A	Practical Catering 1		84 hr
<b>Year 3</b>			
BMS310	Community and Public Health Nutrition	Autumn	8
BMS311	Nutrients and Metabolism	Autumn	8
4565G	Food Service in Practice		90 hr
PHIL380	Bioethics	Spring	8
2642B	Supervision		36 hr
4567A	Catering Supervision in Practice		90 hr
2643D	Staffing Hospitality		27 hr
4571A	Hospitality Colleagues and Customers		24 hr
4571B	Hospitality Industry		18 hr
<b>Year 4</b>			
BMS312	Research in Human Nutrition	Autumn	8
4566A	Practical Catering 2A - Community		36 hrs
4565D	Cook-Chill Catering		27 hr
4501D	Food Service Settings - Aged Care		18 hr
4564A	Catering Commodities		18 hr
6639C	Quality Management in Nutrition Services		18hr
6639A	Administration-Health Care Facilities		36 hr
BMS304	Research Topics in Nutrition and Dietetics	Spring	16
5779F	Food Presentation		10 hr
6634B	Food Service Planning		36 hr
6635A	Australian Cuisine		54 hr
4501K	Work Experience		34 hr

## Other Information

Students are advised to consult the course coordinator about subject selection and enrolment in the TAFE component.

## Double Degrees

Bachelor of Medical Science - Bachelor of Commerce

Bachelor of Psychology - Bachelor of Commerce

Bachelor of Science (Exercise Science) - Bachelor of Commerce

Bachelor of Science (Nutrition) - Bachelor of Commerce

Bachelor of Science (Psychology) - Bachelor of Commerce

Bachelor of Science - Bachelor of Laws (Health and Behavioural Sciences Major)

Bachelor of Medical Science - Bachelor of Laws

Students may combine their Health and Behavioural Sciences studies with studies in a number of other faculties and qualify for the award of two degrees. Double degrees are designed for students to complete two degrees in less time than it would

normally take. Double degrees are offered with Commerce and Law, and may be available with other faculties after consultation with the Sub-Deans.

- Students must seek advice and approval from both faculties.
- Candidates must satisfy the entry requirements of both degree programs.
- Double degrees, where both degrees are normally of three years duration will be a minimum of 216 credit points and take a minimum of four years to complete.
- Double degrees, where one of the degrees is normally of four years duration will be a minimum of 264 credit points and take a minimum of five years to complete.
- Students may be given exemptions where equivalences exist between subjects.

For all double degrees, candidates are required to complete subjects from the Health and Behavioural Sciences schedule, including core subjects and subjects to satisfy the requirements of one of the Health and Behavioural Sciences majors or degrees. Candidates should be aware that the number of credit points required by each major varies.

Candidates must also satisfy the requirements for the second degree, which would usually include a major study.

## Additional Information

### Criminal Record Checks

As part of the 'whole of government' approach to child protection, the NSW Department of Health requires all students in health related courses to undergo a criminal record check. The criminal record check shall be completed before a student can attend any clinical placement in a Public Health facility. Students need to give their consent to such a check and will submit a signed consent form through their university. Consent forms are available from universities. Checks are done through the NSW Police Service and coordinated by the Department of Health. At present there is no cost to either the student or university for this service. When the check is completed the student will be issued with a Clearance Letter, which has to be produced whenever they attend a clinical placement. The Letter must not be photocopied or duplicated in any way. Lost, mislaid or mutilated Clearance Letters are replaced on application from the student with payment of a fee. If a student receives a positive result from the check it will not necessarily exclude them from a clinical placement. Each situation will be individually assessed in a confidential consultation between the student and a representative of the Department of Health.

An additional requirement came into effect with new child protection legislation enacted in July 2000. The university will provide another form to the student called the Prohibited Employment Declaration. The Declaration must also be completed before any clinical placement. The completed and signed declaration is returned to the university and will be held by us. The Health Department does not issue or administer this form.

### Infectious Diseases

Students required to complete clinical training in the NSW hospital system will be subject to various guidelines and procedures laid down for health workers by the NSW Department of Health, including guidelines regarding infectious diseases. In the hospital system, you will be exposed to a large number and variety of individuals, some of whom may have a communicable disease such as tuberculosis, measles, mumps, rubella, diphtheria, poliomyelitis, HIV or Hepatitis B. This may place you at risk of acquiring one of these diseases. In other cases, if you have a communicable disease, you may place your clients at risk.

For your protection, and for the protection of your potential clients, you are recommended to have vaccinations before you begin clinical work. Evidence of your vaccination status may be required by certain clinical placements/agencies before attendance. If your vaccinations are incomplete, opportunities for placement may be limited and your progress in the course could be affected. Some categories of health care workers - nurses, doctors, dentists, dental technicians, podiatrists and physiotherapists - also have regulated individual responsibility with regard to infection control. You should familiarise yourself with these responsibilities.

Health care workers who are either HIV antibody positive or Hepatitis B e-antigen or Hepatitis B DNA positive or Hepatitis C PCR positive must not perform exposure prone procedures. Expert medical advice should be obtained by infected people on their infectious status and the extent to which this may limit their clinical practice.

# Faculty of Informatics

## Member Units

School of Electrical, Computer and Telecommunications Engineering

School of Information Technology and Computer Science

School of Mathematics and Applied Statistics

## Degrees Offered

### Single Degrees

Bachelor of Computer Bioinformatics

Bachelor of Computer Geoinformatics

Bachelor of Computer Science

Bachelor of Engineering (Computer Engineering)

Bachelor of Engineering (Electrical Engineering)

Bachelor of Engineering (Telecommunications Engineering)

Bachelor of Information and Communication Technology

Bachelor of Information Technology

Bachelor of Internet Science and Technology

Bachelor of Mathematics

Bachelor of Mathematics (Advanced)

Bachelor of Mathematics and Economics

Bachelor of Mathematics and Finance

Bachelor of Mathematics Education - refer to the Faculty of Education for details of this program.

### Double Degrees

Bachelor of Computer Science - Bachelor of Science

Bachelor of Creative Arts - Bachelor of Computer Science

Bachelor of Engineering - Bachelor of Arts

Bachelor of Engineering - Bachelor of Commerce

Bachelor of Engineering - Bachelor of Mathematics

Bachelor of Engineering - Bachelor of Science

Bachelor of Mathematics - Bachelor of Computer Science

### Refer to the Faculty of Engineering section for details of the following double degree programs:

Bachelor of Engineering (Civil, Environmental, Materials, Mechanical, Mechatronics, Mining) - Bachelor of Computer Science

Bachelor of Engineering (Civil, Environmental, Materials, Mechanical, Mechatronics, Mining) - Bachelor of Mathematics

Bachelor of Science (Physics) - Bachelor of Mathematics

### Refer to the Faculty of Law section for details of the following double degree programs:

Bachelor of Computer Science - Bachelor of Laws

Bachelor of Information and Communication Technology - Bachelor of Laws

Bachelor of Mathematics - Bachelor of Laws

### Refer to the Faculty of Science section for details of the following double degree program:

Bachelor of Science - Bachelor of Mathematics

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>

International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

## Bachelor of Computer Bioinformatics

Testamur Title of Degree:	Bachelor of Computer Bioinformatics
Abbreviation:	BCompBioinf
Home Faculty:	Informatics
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	198
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	890
UAC Code:	754102
CRICOS Code:	039554M

### Overview

This degree is designed to produce graduates who are, first and foremost, highly trained in relevant areas of computer science and mathematics but who also possess knowledge and skills in molecular biology and related biological science.

The degree has two strands, non-Honours (coursework) and Honours (including a substantial research project).

### Entry Requirements / Assumed Knowledge

Approximate UAI: 77

Assumed Knowledge: Any two units of English plus Mathematics.

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

### Course Requirements

To qualify for the award of the degree Bachelor of Computer Bioinformatics (BCompBioinf), students must complete 198 credit points as detailed, over four years full-time (or equivalent part-time). Students who achieve a WAM of greater than 67.5 can undertake the Honours strand in their final year, while other students will continue in the non-Honours strand.

### Course Program

Subjects		Session	Credit Points
Year 1			
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity and Environment	Autumn	6
CSCI103	Algorithms and Problem Solving	Autumn	6
CSCI114	Procedural Programming	Spring	6
Plus			
CHEM101	Chemistry 1A: Introductory Physical and General Chemistry	Autumn	6
or			
CHEM104	Chemistry 1D (Introductory Chemistry)	Autumn	6
Plus			
CHEM102	Chemistry 1B: Introductory Organic & Physical Chemistry	Spring	6
or			
CHEM105	Chemistry 1E (Introductory Chemistry)	Spring	6
Plus			
MATH141	Mathematics 1C Part 1	Autumn	6
or			
MATH187	Mathematics 1A Part 1	Autumn	6
Plus			
MATH142	Mathematics 1C Part 2	Spring	6
or			
MATH188	Mathematics 1A Part 2	Spring	6
Year 2			
BIOL213	Principles of Biochemistry	Autumn	6
BIOL215	Introductory Genetics	Spring	6
CSCI124	Object Programming	Autumn	6
CSCI204	The C Family and Unix	Spring	6
CSCI222	Systems Development	Spring	6
CSCI235	Databases	Spring	6
Plus			
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
or			
MATH203	Linear Algebra	Autumn	6
Plus one CSCI 200-level elective subject			6
Year 3			
BIOL303	Biotechnology: Applied Cell and Molecular Biology	Autumn	8

CHEM320	Bioinformatics: From Genome to Structure	Spring	8
CSCI315	Database Design and Implementation	Autumn	6
CSCI321	Project	Annual	12
MATH111	Applied Mathematical Modelling 1	Spring	6
STAT231	Probability and Random Variables	Autumn	6
Plus			
STAT304	Operations Research and Applied Probability	Spring	6
or			
CSCI323	Artificial Intelligence	Spring	6
<b>Year 4 (Honours) - WAM &gt;67.5</b>			
BIOL320	Molecular Cell Biology	Autumn	8
INFO403	Computer Bioinformatics Honours Project	Annual	24
INFO411	Data Mining and Knowledge Discovery	Spring	6
Plus			
STAT304	Operations Research and Applied Probability	Spring	6
or			
CSCI464	Neural Computing	Autumn	6
Plus one 300/400 Level elective chosen from the Biology, Computer Science or Mathematics Schedules.			6 or 8
<b>Year 4 (Non-Honours)</b>			
BIOL320	Molecular Cell Biology	Autumn	8
INFO411	Data Mining and Knowledge Discovery	Spring	6
Plus			
STAT304	Operations Research and Applied Probability	Spring	6
or			
CSCI464	Neural Computing	Autumn	6
Plus 300/400 level electives chosen from the Biology, Computer Science or Mathematics Schedules, of which at least 24 credit points must be at 400 level.			30

### Honours

To qualify for an award of Honours, students must satisfactorily complete the requirements listed in Year 4 (Honours) of the Course Program above. The classes of Honours awarded are defined in the Course Rules.

## Bachelor of Computer Geoinformatics

Testamur Title of Degree:	Bachelor of Computer Geoinformatics
Abbreviation:	BCompGeoinf
Home Faculty:	Informatics
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	793
UAC Code:	754103
CRICOS Code:	043414M

### Overview

Geoinformatics is the combination of information technology, computer programming, remote sensing and data layering techniques known as geographical information systems (GIS) designed to analyse and interpret spatial data.

Geographical Information Systems (GIS) is a technique for processing and managing spatial data. The outcome of GIS emphasises the efficient interpretation of spatial knowledge. It is used extensively by government planning organisations and industry, but is increasingly being used in a wider range of applications.

This degree integrates aspects of information technology, computer programming and spatial analysis techniques to comprehensively train a student in this growing field of spatial data processing and management. The degree provides grounding in the fundamentals of landscape recognition and interpretation in fields such as mineralogy, biogeography, soils, marine science and climatology, as well as the relevant areas of computer science and information technology.

This degree has two strands, non-Honours (coursework) and Honours (including a substantial research project).

### Entry Requirements / Assumed Knowledge

Approximate UAI: 77

Assumed Knowledge: Any two units of English plus Mathematics.

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

## Course Requirements

To qualify for the award of the degree of Bachelor of Computer Geoinformatics, students must satisfactorily complete 192 credit points, as detailed, over four years full-time (or equivalent part-time). Students achieving a WAM of greater than 67.5 can undertake the Honours strand in their final year, while other students will continue in the non-Honours strand.

## Course Program

Subjects	Session	Credit Points
<b>Year 1</b>		
CSCI103 Algorithms and Problem Solving	Autumn	6
CSCI114 Procedural Programming	Autumn	6
CSCI124 Object Programming	Spring	6
MATH121 Discrete Mathematics	Autumn	6
Plus three of the following:		
EESC101 Planet Earth	Autumn	6
EESC102 Earth Environments and Resources	Spring	6
EESC103 Landscape Change and Climatology	Autumn	6
EESC104 The Human Environment: Problems and Change	Spring	6
Plus one of the following:		
MATH141 Mathematics 1C Part 1	Autumn	6
MATH161 Mathematics 1E Part 1	Spring	6
MATH187 Mathematics 1A Part 1	Autumn	6
<b>Year 2</b>		
CSCI204 The C Family and Unix	Autumn/ Spring	6
CSCI213 Java Programming and the Internet	Autumn	6
CSCI235 Databases	Spring	6
STAT252 Statistics for the Natural Sciences	Spring	6
EESC204 Introductory Spatial Science	Spring	6
Plus any three 200-level EESC subjects		18
Note: a credit or higher in STAT252 is required before enrolling in STAT355.		
<b>Year 3</b>		
CSCI315 Database Design and Implementation	Autumn	6
CSCI336 Computer Graphics	Autumn	6
STAT335 Sample Surveys and Experimental Design	Autumn	6
EESC304 Geographic Information Science	Spring	8
EESC305 Remote Sensing of the Environment	Autumn	8
Plus any 300-level CSCI subject		6
Plus any 300-level EESC subject		8
<b>Year 4 (Honours) - WAM &gt; 67.5</b>		
INFO411 Data Mining and Knowledge Discovery	Spring	6
EESC403 Geoinformatics Honours	Annual	36
Plus any 400-level INFO or IACT subject		6
<b>Year 4 (Non-Honours)</b>		
INFO411 Data Mining and Knowledge Discovery	Spring	6
Plus 300/400 level electives chosen from the Earth and Environmental Sciences, Computer Science and/or Mathematics Schedules. At least 24 credit points must be at 400-level from the Computer Science and/or Mathematics Schedule.		42

## Honours

To qualify for an award of Honours, students must satisfactorily complete the requirements listed in Year 4 (Honours) of the Course Program above. The classes of Honours awarded are defined in the Course Rules.

## Bachelor of Computer Science

Testamur Title of Degree:	Bachelor of Computer Science (name of major)
Abbreviation:	BCompSc
Home Faculty:	Informatics
Duration:	3 years (6 sessions) or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong; INTI College, Kuching, Sarawak, Malaysia.
UOW Course Code:	766, MY766
UAC Code:	754101
CRICOS Code:	012088K

### Overview

Computer scientists design and write programs for computer applications. These applications include computer systems to control machinery, the analysis of stock market trends, games design, visualisation of chemical reactions, neural network design, computational geometry for robot navigation, automatic teller machines and patient monitoring in hospitals.

Computer programming is the science of writing computer software to solve problems. Computer science is the study of algorithmic processes that describe and transform information: theory, analysis, design, efficiency, programming and application.

This degree includes a core of programming subjects as well as electives in database, languages, artificial intelligence, computer security, computer graphics, operating systems, real-time software and software engineering.

A high point of the degree is the third year project where students form teams to develop computer applications. High-achieving students may complete a fourth year Honours degree.

UOW's Computer Science degree allows you to specialise in software development, distributed systems or digital systems security, as well as study other disciplines including management, visual arts, languages, commerce and mathematics. You can take subjects from another discipline, study a second major or enrol in a double degree.

### Entry Requirements / Assumed Knowledge

Approximate UAI: 77

Assumed Knowledge: Any two units of English plus Mathematics.

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

### Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>

### Course Requirements

To qualify for the award of the degree of Bachelor of Computer Science, a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of:

- The following core subjects:
 

CSCI102	Systems
CSCI103	Algorithms & Problem Solving
CSCI114	Procedural Programming
CSCI124	Object Programming
MATH121	Discrete Mathematics
STAT131	Understanding Variation & Uncertainty
CSCI203	Algorithms and Data Structures
CSCI204	The C Family and Unix
CSCI212	Interacting Systems
CSCI222	Systems Development
CSCI321	Project
- An additional 24 credit points of 300-level subjects, of which 12 credit points must be CSCI subjects. Note that at least 24 credit points of 300-level subjects, including CSCI321, must be at pass grade or better.

3. No more than 60 credit points at 100-level.
4. At least 48 credit points of subjects chosen from the Computer Science Schedule and/or the General Schedule.
5. No more than 24 credit points (ie. 1/6) of subjects at PC grade.

### Areas of Major Study

Students enrolled in this degree can major in:

Computer Science  
Digital Systems Security  
Distributed Systems  
Software Development

Approved second majors are available in:

Biological Sciences  
Business Information Systems  
Chemistry  
Electronic Commerce  
Electronics  
English Language Studies  
Geosciences  
Management  
Marketing  
Mathematics

All majors are outlined in detail below.

All candidates are expected to consult with the School and Faculty advisers before committing themselves completely to any particular pattern, whether outlined below or not.

### Computer Science Schedule

Subjects	Session	Credit Points
<b>100-Level</b>		
CSCI102 Systems	Spring	6
CSCI103 Algorithms & Problem Solving	Autumn/ Spring	6
CSCI114 Procedural Programming	Autumn/ Spring	6
CSCI124 Object Programming	Autumn/ Spring	6
MATH121 Discrete Mathematics	Autumn	6
MATH141 Mathematics 1C - Part I	Autumn	6
MATH142 Mathematics 1C - Part II	Spring	6
MATH187 Mathematics 1A - Part 1	Autumn	6
MATH188 Mathematics 1A - Part 2	Spring	6
STAT131 Understanding Variation & Uncertainty	Autumn/ Spring	6
<b>200-Level</b>		
CSCI203 Algorithms and Data Structures	Autumn	6
CSCI204 The C Family and Unix	Autumn/ Spring	6
CSCI205 Development Methods and Tools	Spring	6
CSCI212 Interacting Systems	Autumn	6
CSCI213 Java Programming and the Internet	Autumn	6
CSCI214 Distributed Systems	Spring	6
CSCI222 Systems Development	Spring	6
CSCI235 Databases	Spring	6
CSCI236* 3D Modelling & Animation	Spring and Summer	6
CSCI262 Systems Security	Spring	6
IAC201 Information Technology and Citizens' Rights	Autumn	6
IAC202 The Structure and Organisation of Telecommunications	Spring	6
ITCS201 Markup Languages	Autumn	6
MATH203 Linear Algebra	Autumn	6
* Please note that this subject runs over both Spring and Summer sessions. Results will not be declared until the end of Summer session, so this subject is not suitable for anyone wishing to graduate in December.		
<b>300-Level</b>		
CSCI311 Software Process Management	Autumn	6
CSCI313 Professional Programming Practices	N/A in 2005	6
CSCI315 Database Design and Implementation	Autumn	6
CSCI317 Database Performance Tuning	Spring	6
CSCI321 Project	Annual	12
CSCI322 Systems Administration	Spring	6
CSCI323 Artificial Intelligence	Spring	6
CSCI324 Human Computer Interface	Spring	6
CSCI325 Software Engineering Formal Methods	Autumn	6
CSCI333 Compilers	N/A in 2005	6



CSCI334	Interfacing and Real Time Programming	Spring	6
CSCI336	Computer Graphics	Autumn	6
CSCI337	Organisation of Programming Languages	Spring	6
CSCI361	Computer Security	Autumn	6
CSCI365	CSCI Honours Preliminary Project	N/A in 2005	6
CSCI368	Network Security	Spring	6
CSCI370	Special Topics in Computer Science A	N/A in 2005	6
CSCI371	Special Topics in Computer Science B	N/A in 2005	6
CSCI372	Special Topics in Computer Science C	N/A in 2005	6
CSCI373	Special Topics in Computer Science D	N/A in 2005	6
CSCI399	Server Technology	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT303	World Wide Networking	Spring	6
IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
ITCS301	Exploiting Collaborative Technologies	Spring	6
<b>400-Level</b>			
CSCI407	Corba & Enterprise Java	Spring	6
CSCI408	Distributed Java	N/A in 2005	6
CSCI425	Topics in Software Engineering	Autumn	6
CSCI444	Perception and Planning	Spring	6
CSCI445	Parallel Computing	N/A in 2005	6
CSCI446	Multi-Media Studies	Autumn	6
CSCI450	Software Engineering Requirements & Specifications	Spring	6
CSCI457	Advanced Topics in Database Management	Spring	6
CSCI463	Advanced Computer Graphics	N/A in 2005	6
CSCI464	Neural Computing	Autumn	6
CSCI465	Design and Analysis of Algorithms	N/A in 2005	6
CSCI466	Coding for Secure Communication	N/A in 2005	6
CSCI467	Complexity Theory	N/A in 2005	6
CSCI471	Advanced Computer Security	Spring	6
INFO411	Data Mining and Knowledge Discovery	Spring	6
INFO412	Mathematics for Cryptography	Autumn	6
INFO413	Information Theory	Spring	6
ITCS429	Concepts and Issues in Healthcare Computing	Spring	6
ITCS430	Introduction to Health Informatics	Autumn	6
ITCS431	Advanced Web Application Development	Spring	6
ITCS432	Web Design	Spring	6
ITCS436	Detailed Design of Integrated Solutions for eBusiness	Spring	6
ITCS450	Patterns for eBusiness	N/A in 2005	6
ITCS451	Web Services for Dynamic eBusiness	Spring	6

## Honours

Candidates who achieve a credit average or better in the Bachelor of Computer Science or a major in computer science in another degree are eligible to enrol in an additional year of study towards a Bachelor of Computer Science (Honours) (BCompSc(Hons)).

To qualify for the award of the Bachelor of Computer Science (Honours), candidates must complete CSCI401. The level of honours awarded at the completion of the course is determined in accordance with University Course Rules.

The program of study for BCompSc(Hons), (ie CSCI401 Computer Science IV Honours) is 48 credit points and will include:

1. an 18 credit point project;
2. 30 credit points of 400-/900-level Computer Science subjects;
3. with the permission of the Head of School, candidates may substitute up to 12 credit points of subjects with 300-level Computer Science subjects or 400-level subjects from another discipline;
4. attendance at a series of seminars on research methodology in Autumn Session is compulsory (including quantitative and qualitative analysis). Seminars will cover the purpose of research, formulating a research question, conducting a literature review and writing a research proposal. Students will learn how to design an appropriate research plan; requirements for scholarly writing will also be discussed and the process of undertaking a research project will be analysed.

Individual results for subjects attempted will not be released. Instead, the final result for CSCI401 will be calculated from the total results for the project and subjects. Set out below is a sample of subjects which may be taken as part of the BCompSc(Hons):

- Topics in Software Engineering
- Perception and Planning
- Parallel Architectures and Algorithms
- Multi-Media Studies
- Advanced Topics in Database Management
- Advanced Computer Graphics

- Neural Computing
- Design and Analysis of Algorithms
- Coding for Secure Communication
- Complexity Theory
- Network Security
- Advanced Computer Security

### Joint Honours with Computer Science

CSCI405 – Computer Science Joint Honours comprises one half of CSCI401 and is available to students who wish to undertake a joint honours project. This is particularly suited to students who have undertaken a double major in the BCompSc degree. A thesis topic will be determined in consultation with both academic units.

### Major Study Areas

#### Computer Science (code CS18)

##### Major Study

To satisfy the requirements for a major study in Computer Science, a student shall satisfactorily complete the BCompSc core subjects, as listed in the course requirements, plus an additional 12 credit points of 300-level CSCI subjects.

##### Double Majors

A major in Computer Science can be combined with Biological Sciences, Business Information Systems, Chemistry, Electronic Commerce, Electronics, English Language Studies, Geosciences, Management, Marketing or Mathematics. Second major requirements are listed below.

#### Digital Systems Security (code CS42)

##### Major Study

To satisfy the requirements for a major study in Digital Systems Security, a student shall satisfactorily complete the BCompSc core subjects, as listed in the course requirements, plus the following additional subjects:

Subjects	Session	Credit Points
<b>200-Level</b>		
CSCI214      Distributed Systems	Spring	6
CSCI262      Systems Security	Spring	6
<b>300-Level</b>		
CSCI361      Computer Security	Autumn	6
CSCI368      Network Security	Spring	6

##### Double Majors

A major in Digital Systems Security can be combined with Distributed Systems (code CS44), Software Development (code CS45) or Computer Science (code CS43). Second major requirements are listed below.

#### Distributed Systems (code CS19)

##### Major Study

To satisfy the requirements for a major study in Distributed Systems, a student shall satisfactorily complete the BCompSc core subjects, as listed in the course requirements, and the following additional subjects:

Subjects	Session	Credit Points
<b>200-Level</b>		
CSCI213      Java Programming and the Internet	Autumn	6
CSCI214      Distributed Systems	Spring	6
<b>300-Level</b>		
CSCI322      Systems Administration	Spring	6
CSCI399      Server Technology	Autumn	6

##### Double Majors

A major in Distributed Systems can be combined with Business Information Systems, Electronic Commerce, Electronics or Software Development (code CS28). Second major requirements are listed below.

**Software Development (code CS20)****Major Study**

To satisfy the requirements for a major study in Software Development, a student shall satisfactorily complete the BCompSc core subjects, as listed in the course requirements, and the following additional subjects:

Subjects		Session	Credit Points
<b>200-Level</b>			
CSCI205	Development Methods and Tools	Spring	6
CSCI235	Databases	Spring	6
<b>300-Level</b>			
CSCI311	Software Process Management	Autumn	6
CSCI325	Software Engineering Formal Methods	Autumn	6

**Double Majors**

A major in Software Development can be combined with Business Information Systems, Electronic Commerce, Electronics or Distributed Systems (code CS28). Second major requirements are listed above and below.

**Computer Science and Biological Sciences (code CS32)**

This double major requires satisfactory completion of a major study in Computer Science and satisfactory completion of one of the following 60 credit point majors in Biological Sciences:

<b>Environmental and Ecological Strand</b>			
Subjects		Session	Credit Points
<b>100-Level</b>			
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity and Environment	Autumn	6
<b>200-Level</b>			
BIOL240	Functional Biology of Plants & Animals	Autumn	6
BIOL241	Biodiversity: Classification and Sampling	Spring	6
BIOL251	Principles of Ecology and Evolution	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6

Note: STAT252 is equivalent to STAT131. Students undertaking this double major may choose to undertake STAT131 OR STAT252.

<b>300-Level</b>			
BIOL332	Ecological & Evolutionary Physiology	Autumn	8
BIOL351	Conservation Biology: Marine and Terrestrial Populations	Autumn	8
BIOL355	Marine and Terrestrial Ecology	Spring	8

<b>Cell and Molecular Strand</b>			
Subjects		Session	Credit Points
<b>100-Level</b>			
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity and Environment	Autumn	6
CHEM101	Chemistry 1A: Introductory Physical and General Chemistry	Autumn	6
CHEM102	Chemistry 1B: Introductory Organic and Physical Chemistry	Spring	6
<b>200-Level</b>			
BIOL213	Principles of Biochemistry	Autumn	6
BIOL215	Introductory Genetics	Spring	6
<b>300-Level</b>			
BIOL320	Molecular Cell Biology	Autumn	8
BIOL303	Biotechnology: Applied Cell and Molecular Biology	Autumn	8
BIOL321	Cellular and Molecular Immunology	Spring	8

**Computer Science and Business Information Systems (code CS35)****Distributed Systems and Business Information Systems (code CS40)****Software Development and Business Information Systems (code CS41)**

This double major requires satisfactory completion of a major study in Computer Science, Distributed Systems or Software Development and satisfactory completion of a major study in Business Information Systems, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Business Information Systems major. All students must satisfy subject prerequisites except where waivers have been granted.

**Computer Science and Chemistry (code CS33)**

This double major requires satisfactory completion of a major study in Computer Science and satisfactory completion of the following 60 credit point major in Chemistry:

Subjects		Session	Credit Points
<b>100-Level</b>			
Either			
CHEM101	Chemistry 1A: Introductory Physical and General Chemistry	Autumn	6
or			
CHEM104	Chemistry 1D (Introductory Chemistry)	Autumn	6
Plus either			
CHEM102	Chemistry 1B: Introductory Organic and Physical Chemistry	Spring	6
or			
CHEM105	Chemistry 1E (Introductory Chemistry)	Spring	6
<b>200-Level</b>			
CHEM211	Inorganic Chemistry II	Autumn	6
CHEM212	Organic Chemistry II	Autumn	6
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
CHEM214	Analytical and Environmental Chemistry	Spring	6
<b>300-Level</b>			
At least 3 subjects chosen from the following:			
CHEM301	Advanced Materials and Nanotechnology	Spring	8
CHEM314	Instrumental Analysis	Autumn	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
CHEM321	Organic Synthesis and Reactivity	Spring	8
CHEM327	Environmental Chemistry	Autumn	8
CHEM340	Chemistry Laboratory Project	Autumn/Spring / Summer	8
CHEM364	Molecular Structure and Spectroscopy	Autumn	8

**Computer Science and Electronic Commerce (code CS36)****Distributed Systems and Electronic Commerce (code CS30)****Software Development and Electronic Commerce (code CS29)**

This double major requires satisfactory completion of a major study in Computer Science, Distributed Systems or Software Development and satisfactory completion of the following 54 credit point major study in Electronic Commerce:

Subjects	Session	Credit Points
<b>200-Level</b>		
IACT201      Information Technology and Citizens' Rights	Autumn	6
Plus		
200-level Electronic Commerce subjects		18
<b>300-Level</b>		
IACT303      World Wide Networking	Spring	6
Plus		
300/400-level Electronic Commerce subjects		18
Plus		
200/300-level Electronic Commerce subject		6

Note: Students should choose electives carefully as many of the following subjects have pre-requisites. Depending upon subject choice, a load of more than four subjects per session may be required to complete this double major within the normal three year period.

**Electronic Commerce Subjects**

ACCY231	Information Systems in Accounting	Spring	6
ACCY332	Advanced Information Systems in Accounting	Autumn	6
ACCY335	Advanced Information Systems in Accounting II	Spring	6
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS212	Database Management Systems	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed Information Systems	Autumn	6
CSCI213	Java Programming and the Internet	Autumn	6
CSCI214	Distributed Systems	Spring	6
CSCI236*	3D Modelling & Animation	Spring and Summer	6
CSCI311	Software Process Management	Autumn	6
CSCI361	Computer Security	Autumn	6
CSCI399	Server Technology	Autumn	6
ECON230	Quantitative Analysis for Decision Making	Spring	6
ECON312	Industrial Economics	Autumn	6
ECON319	Electronic Commerce and the Economics of Information	Spring	6
FIN353	Global Electronic Finance	Autumn	6

IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
IACT417	Information Management	Autumn	6
IACT419	Online Information Services	Spring	6
ITCS436	Detailed Design of Integrated Solutions for eBusiness	Spring	6
ITCS450	Patterns for eBusiness	N/A in 2005	6
ITCS451	Web Services for Dynamic eBusiness	Spring	6
LAW210	Contract Law	Spring	6
LAW317	E-Commerce Law	Spring	6
LAW331	Intellectual Property Law	Autumn	6
MARK301	Internet Applications for Marketing	Spring	6
MGMT200	Management and Electronic Business	Autumn	6
MGMT300	Innovation and Electronic Commerce	Spring	6

\* Please note that this subject runs over both Spring and Summer sessions. Results will not be declared until the end of Summer session, so this subject is not suitable for anyone wishing to graduate in December.

### **Computer Science and Electronics (code CS37)**

### **Distributed Systems and Electronics (code CS38)**

### **Software Development and Electronics (code CS39)**

This double major requires satisfactory completion of a major study in Computer Science, Distributed Systems or Software Development and satisfactory completion of the following 66 credit point major study in Electronics:

Subjects	Session	Credit Points
<b>100-Level</b>		
ECTE172 Introduction to Circuits and Devices	Spring	6
MATH187 Mathematics 1A Part 1	Autumn	6
MATH188 Mathematics 1A Part 2	Spring	6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162		
<b>200-Level</b>		
ECTE202 Circuits and Systems	Annual	6
ECTE212 Electronics and Communications	Spring	6
ECTE233 Digital Hardware 1	Autumn	6
MATH283 Mathematics 2E for Engineers Part 1	Autumn	6
<b>300-Level</b>		
ECTE313 Electronics	Autumn/Spring	6
ECTE333 Digital Hardware 2	Spring	6
ECTE344 Control Theory	Autumn	6
Plus		
ECTE301 Digital Signal Processing 1	Autumn	6
or		
ECTE363 Communication Theory	Spring	6
Note: A load of more than four subjects per session may be required to complete this double major within the normal three year period.		

### **Computer Science and English Language Studies (code CS08)**

This double major requires satisfactory completion of a major study in Computer Science and satisfactory completion of a major study in English Language Studies, as outlined in the Bachelor of Arts entry.

Note that a major in English Language Studies for Non-English Speaking Background (NESB) students consists of 58 credit points, while a major in English Language Studies for English Speaking Background (ESB) students consists of 52 credit points.

### **Computer Science and Geosciences (code CS34)**

This double major requires satisfactory completion of a major study in Computer Science and satisfactory completion of the following 60 credit point major in Geosciences:

Subjects	Session	Credit Points
<b>100-Level</b>		
At least two 100-level subjects chosen from the Earth and Environmental Sciences Schedule		12
<b>200-Level</b>		
At least four 200-level subjects chosen from the Earth and Environmental Sciences Schedule		24
<b>300-Level</b>		
At least three 300-level subjects chosen from the Earth and Environmental Sciences Schedule		24

**Computer Science and Management (code CS09)****Software Development and Management (code CS46)****Distributed Systems and Management (code CS47)****Digital Systems Security and Management (code CS48)**

This double major requires satisfactory completion of a major study in Computer Science, Distributed Systems, Digital Systems Security or Software Development and satisfactory completion of a major study in Management, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Management major. All students must satisfy subject prerequisites except where waivers have been granted.

**Computer Science and Marketing (code CS10)**

This double major requires satisfactory completion of a major study in Computer Science and satisfactory completion of a major study in Marketing, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Marketing major. All students must satisfy subject prerequisites except where waivers have been granted.

**Computer Science and Mathematics (code CS01)**

This double major requires satisfactory completion of a major study in Computer Science and satisfactory completion of at least 60 credit points of subjects chosen from the Mathematics Schedule, including at least 18 credit points of 200-level MATH/STAT subjects and 24 credit points of 300-level MATH/STAT subjects.

**Professional Recognition**

The Bachelor of Computer Science is accredited by the Australian Computer Society as meeting requirements for membership at a "Professional Level".

**Bachelor of Engineering**

Testamur Title of Degree:	Bachelor of Engineering (name of major)
Abbreviation:	BE
Home Faculty:	Informatics
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	722E
UAC Code:	755621, 755622, 755623.
CRICOS Code:	006985E

**Overview**

The aim of the Bachelor of Engineering degree is to produce professional engineers, who possess the graduate attributes of the University and Engineers Australia and the requisite knowledge, skills and attitudes to further develop in their chosen careers; and who graduate with the proficiency to compete successfully anywhere in the world. The success of the degree in meeting this aim is evidenced by the number of graduates employed by large corporations in Australia, the United Kingdom, the United States of America, Europe and Asia.

The degree programs offered are enriched by the industry partnerships, which exist between the University and industry. Traditionally, Engineering at Wollongong has had close ties with the Port Kembla Steel Industry and these continue today. Research activities have diversified over the years with the establishment of major research institutes and centres in fields such as Telecommunications and Information Technology and Power Quality and Reliability.

There are three majors within the degree, viz., Computer, Electrical and Telecommunications Engineering. For all three majors the program of study is common until the end of the second year, providing students with the opportunity to finally select the major of their choice at the end of that year. Details of each major are presented in the sections below.

In addition, four double degrees are offered. The double degrees provide the opportunity for students to combine their engineering studies with a Bachelor of Arts, Bachelor of Commerce, Bachelor of Mathematics or Bachelor of Science. Full details of the programs of study for the double degrees are presented in the next section.

## Entry Requirements / Assumed Knowledge

Approximate UAI: 80

Assumed Knowledge: Any two units of English plus Mathematics and two units of Science.

Recommended Studies: English Advanced, HSC Mathematics Extension 1 and Physics.

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

## Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>

## Course Requirements

The degree may be completed in a minimum of four years of full-time study; however, subjects are scheduled so that it may also be undertaken on a part-time basis, in which case the duration will depend upon the particular circumstances of the student. Progression is by subject but the various subject pre- and co-requisites must be satisfied.

There is a recommended program for a full-time, four year minimum course and a preferred part-time program for students in approved, full-time professional employment. For holders of TAFE Certificates and Associate Diplomas, programs will be determined on an individual basis but exemptions of up to 48 credit points may apply.

For the recommended full-time program, students are required to complete satisfactorily the first year before beginning the third year and to complete satisfactorily the second year before beginning the fourth year. With the approval of the Head of School, these requirements may be waived.

For the recommended part-time program, students are required to complete satisfactorily the first two stages before beginning the fourth stage and to complete satisfactorily the third stage before beginning the sixth stage. With the approval of the Head of School, these requirements may be waived.

All BE students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis.

Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

### Professional Experience

All BE students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between Years 3 and 4.

## Honours

The degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year. The classes of honours awarded are defined in the Course Rules.

## Major Study Areas

### Computer Engineering

#### Recommended Full-Time Program

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/ Spring	6
Or			
CSCI213	Java Programming and the Internet	Autumn	6

## Course Information

<b>Plus</b>			
ECTE202	Circuits and Systems	Annual	6
ECTE250	Engineering Design and Management 2	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
<b>Year 3</b>			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE344	Control Theory	Autumn	6
CSCI205	Development Methods and Tools	Spring	6
ECTE333	Digital Hardware 2	Spring	6
ECTE363	Communication Theory	Spring	6
Plus	Computer Option	Spring	6
<b>Year 4</b>			
ECTE457	Thesis	Annual	18
CSCI311	Software Process Management	Autumn	6
ECTE431	Real-time Computing	Autumn	3
ECTE432	Computer Systems	Autumn	3
Plus	2 Final Year Specialisation Subjects	Autumn	6
	4 Final Year Specialisation Subjects	Spring	12

## Recommended Part-Time Program for Students in Full-Time, Approved Professional Employment

Subjects		Session	Credit Points
<b>Stage 1</b>			
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Stage 2</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE233	Digital Hardware 1	Autumn	6
PHYS141*	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
*Not for re-enrolling students in 2005.			
<b>Stage 3</b>			
CSCI204	The C Family and Unix	Autumn/ Spring	6
Or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
<b>Stage 4</b>			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Computer Option	Autumn/ Spring	6
<b>Stage 5</b>			
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
CSCI205	Development Methods and Tools	Spring	6
ECTE363	Communication Theory	Spring	6
<b>Stage 6</b>			
ECTE313	Electronics	Annual	6
CSCI311	Software Process Management	Autumn	6
ECTE431	Real-time Computing	Autumn	3
ECTE432	Computer Systems	Autumn	3
Plus	4 Final Year Specialisation Subjects	Spring	12
<b>Stage 7</b>			
ECTE457	Thesis	Annual	18
Plus	2 Final Year Specialisation Subjects	Autumn	6



### Final Year Specialisation Subjects

These will be selected from the following list of subjects. Unless class numbers warrant, only eight subjects will be offered in any year.

Note: A pre-requisite of "all year 2 subjects or equivalent" applies to EACH Final Year Specialisation Subject in addition to any other pre- or co-requisite given.

Subjects		Session	Credit Points
ECTE401	Fast Signal Processing Algorithms	Autumn	3
ECTE402	Stochastic Signal Processing	Spring	3
ECTE403	Image and Video Processing	Spring	3
ECTE404	Adaptive Signal Processing	Autumn	3
ECTE405	Speech and Audio Processing	N/A in 2005	3
ECTE411	AC-Sourced Power Electronics	N/A in 2005	3
ECTE412	DC-Sourced Power Electronics	Autumn	3
ECTE413	Micro-Electronics	N/A in 2005	3
ECTE421	Power Quality	Spring	3
ECTE422	Power Quality Monitoring	N/A in 2005	3
ECTE423	Power Systems	Autumn	3
ECTE424	Power System Abnormalities	N/A in 2005	3
ECTE425	Industrial Drives and Actuators	Autumn	3
ECTE426	Power Distribution	Spring	3
ECTE441	Intelligent Control	Spring	3
ECTE442	Computer Controlled Systems	N/A in 2005	3
ECTE443	Digital Control	N/A in 2005	3
ECTE444	Identification and Optimal Control	N/A in 2005	3
ECTE461	Telecommunications Queuing Theory	Autumn	3
ECTE462	Telecommunications System Modelling	Autumn	3
ECTE463	Transmission Systems	N/A in 2005	3
ECTE464	Antennas and Propagation	N/A in 2005	3
ECTE465	Wireless Communications	Spring	3
ECTE466	Spread Spectrum Communications	N/A in 2005	3
ECTE467	Mobile Networks	N/A in 2005	3
ECTE468	Error Control Coding	N/A in 2005	3
ECTE471	Robotics Manipulators	Spring	3
ECTE472	Robotics Sensory Control	Spring	3
ECTE481	Internet Protocols	N/A in 2005	3
ECTE482	Internet Engineering	Spring	3
ECTE483	Computer Networking	Autumn	3
ECTE484	Network Design and Analysis	N/A in 2005	3
ECTE485	Internet Communications	Autumn	3
ECTE486	Telecommunications Network Management	N/A in 2005	3

### Computer Option

Year 3/Stage 4:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
- (i) The School of Information Technology and Computer Science (CSCI, IACT or ITCS) ; or
  - (ii) The School of Mathematics and Applied Statistics (MATH or STAT).

OR

- (b) ECTE281 Embedded Internet Systems.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

### Electrical Engineering

#### Recommended Full-Time Program

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/ Spring	6
or			

## Course Information

CSCI213 Plus	Java Programming and the Internet	Autumn	6
ECTE202	Circuits and Systems	Annual	6
ECTE250	Engineering Design and Management 2	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
<b>Year 3</b>			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE323	Power Engineering 2	Autumn	6
ECTE344	Control Theory	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ECTE363	Communication Theory	Spring	6
Plus	Electrical Option	Spring	0
<b>Year 4</b>			
ECTE457	Thesis	Annual	18
Plus	6 Final Year Specialisation Subjects	Autumn	18
	4 Final Year Specialisation Subjects	Spring	12

## Recommended Part-Time Program for Students in Full-Time, Approved Professional Employment

Subjects	Session	Credit Points
<b>Stage 1</b>		
ECTE171	Introduction to Signals and Systems	Autumn 6
MATH187	Mathematics 1A Part 1	Autumn 6
MATH188	Mathematics 1A Part 2	Spring 6
PHYS142	Fundamentals of Physics B	Spring 6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162		
<b>Stage 2</b>		
CSCI191	Engineering Programming 1	Autumn 6
ECTE233	Digital Hardware 1	Autumn 6
PHYS141*	Fundamentals of Physics A	Autumn 6
CSCI192	Engineering Programming 2	Spring 6
ECTE172	Introduction to Circuits and Devices	Spring 6
*Not for re-enrolling students in 2005.		
<b>Stage 3</b>		
CSCI204 or CSCI213 Plus	The C Family and Unix	Autumn/ Spring 6
ECTE202	Circuits and Systems	Annual 6
MATH283	Mathematics 2E for Engineers Part 1	Autumn 6
ECTE212	Electronics and Communications	Spring 6
ECTE222	Power Engineering 1	Spring 6
<b>Stage 4</b>		
ECTE250	Engineering Design and Management 2	Annual 6
ECTE323	Power Engineering 2	Autumn 6
ECTE344	Control Theory	Autumn 6
ECTE333	Digital Hardware 2	Spring 6
ENGG291	Engineering Fundamentals	Spring 6
<b>Stage 5</b>		
ECTE350	Engineering Design and Management 3	Annual 6
ECTE301	Digital Signal Processing 1	Autumn 6
ECTE363	Communication Theory	Spring 6
Plus	Electrical Option	Autumn/ Spring 6
<b>Stage 6</b>		
ECTE313	Electronics	Annual 6
Plus	4 Final Year Specialisation Subjects	Autumn 12
	4 Final Year Specialisation Subjects	Spring 12
<b>Stage 7</b>		
ECTE457	Thesis	Annual 18
Plus	2 Final Year Specialisation Subjects	Autumn 6

### Final Year Specialisation Subjects

These will be selected from the following list of subjects. Unless class numbers warrant, only 12 subjects will be offered in any year.

Note: A pre-requisite of 'all Year 2 subjects or equivalent' applies to EACH Final Year Specialisation Subject in addition to any other pre- or co-requisite given.

Subjects		Session	Credit Points
ECTE401	Fast Signal Processing Algorithms	Autumn	3
ECTE402	Stochastic Signal Processing	Spring	3
ECTE403	Image and Video Processing	Spring	3
ECTE404	Adaptive Signal Processing	Autumn	3
ECTE405	Speech and Audio Processing	N/A in 2005	3
ECTE411	AC-Sourced Power Electronics	N/A in 2005	3
ECTE412	DC-Sourced Power Electronics	Autumn	3
ECTE413	Micro-Electronics	N/A in 2005	3
ECTE421	Power Quality	Spring	3
ECTE422	Power Quality Monitoring	N/A in 2005	3
ECTE423	Power Systems	Autumn	3
ECTE424	Power System Abnormalities	N/A in 2005	3
ECTE425	Industrial Drives and Actuators	Autumn	3
ECTE426	Power Distribution	Spring	3
ECTE431	Real-time Computing	Autumn	3
ECTE432	Computer Systems	Autumn	3
ECTE441	Intelligent Control	Spring	3
ECTE442	Computer Controlled Systems	N/A in 2005	3
ECTE443	Digital Control	N/A in 2005	3
ECTE444	Identification and Optimal Control	N/A in 2005	3
ECTE461	Telecommunications Queuing Theory	Autumn	3
ECTE462	Telecommunications System Modelling	Autumn	3
ECTE463	Transmission Systems	N/A in 2005	3
ECTE464	Antennas and Propagation	N/A in 2005	3
ECTE465	Wireless Communications	Spring	3
ECTE466	Spread Spectrum Communications	N/A in 2005	3
ECTE467	Mobile Networks	N/A in 2005	3
ECTE468	Error Control Coding	N/A in 2005	3
ECTE471	Robotics Manipulators	Spring	3
ECTE472	Robotics Sensory Control	Spring	3
ECTE481	Internet Protocols	N/A in 2005	3
ECTE482	Internet Engineering	Spring	3
ECTE483	Computer Networking	Autumn	3
ECTE484	Network Design and Analysis	N/A in 2005	3
ECTE485	Internet Communications	Autumn	3
ECTE486	Telecommunications Network Management	N/A in 2005	3

With the approval of the School Head, two Final Year Specialisation Subjects may be replaced by a suitable equivalent subject offered by another Department or School.

### Electrical Option

Year 3/Stage 5:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by the School of Mathematics and Applied Statistics (MATH or STAT); or
- (b) ECTE281 Embedded Internet Systems.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

### Telecommunications Engineering

#### Recommended Full-Time Program

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6

## Course Information

Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162

### Year 2

CSCI204	The C Family and Unix	Autumn/ Spring	6
Or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE250	Engineering Design and Management 2	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
ENGG291	Engineering Fundamentals	Spring	6

### Year 3

ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE344	Control Theory	Autumn	6
ECTE364	Telecommunication Networks 1	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ECTE363	Communication Theory	Spring	6
Plus	Telecommunications Option	Spring	6

### Year 4

ECTE457	Thesis	Annual	18
ECTE461	Telecommunications Queuing Theory	Autumn	3
ECTE462	Telecommunications System Modelling	Autumn	3
Plus	2 Final Year Specialisation Subjects	Autumn	6
	4 Final Year Specialisation Subjects	Spring	12
	Telecommunications Option	Autumn/ Spring	6

## Recommended Part-Time Program for Students in Full-Time, Approved Professional Employment

Subjects		Session	Credit Points
<b>Stage 1</b>			
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Stage 2</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE233	Digital Hardware 1	Autumn	6
PHYS141*	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
*Not for re-enrolling students in 2005.			
<b>Stage 3</b>			
CSCI204	The C Family and Unix	Autumn/ Spring	6
Or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
MATH283	Mathematics 2E for Engineers, Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
<b>Stage 4</b>			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Telecommunications Option	Spring	6
<b>Stage 5</b>			
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE364	Telecommunication Networks 1	Autumn	6
ECTE363	Communication Theory	Spring	6
<b>Stage 6</b>			
ECTE313	Electronics	Annual	6
ECTE461	Telecommunications Queuing Theory	Autumn	3
ECTE462	Telecommunications System Modelling	Autumn	3
	4 Final Year Specialisation Subjects	Spring	12
Plus	Telecommunications Option	Autumn/ Spring	6

**Stage 7**ECTE457  
PlusThesis  
2 Final Year Specialisation SubjectsAnnual  
Autumn18  
6**Final Year Specialisations Subjects**

These will be selected from the following list of subjects. Unless class numbers warrant, only eight subjects will be offered in any year.

Note: A pre-requisite of 'all Year 2 subjects or equivalent' applies to EACH Final Year Specialisation Subject in addition to any other pre- or co-requisite given.

Subjects		Session	Credit Points
ECTE401	Fast Signal Processing Algorithms	Autumn	3
ECTE402	Stochastic Signal Processing	Spring	3
ECTE403	Image and Video Processing	Spring	3
ECTE404	Adaptive Signal Processing	Autumn	3
ECTE405	Speech and Audio Processing	N/A in 2005	3
ECTE412	DC-Sourced Power Electronics	Autumn	3
ECTE413	Micro-Electronics	N/A in 2005	3
ECTE431	Real-time Computing	Autumn	3
ECTE432	Computer Systems	Autumn	3
ECTE441	Intelligent Control	Spring	3
ECTE463	Transmission Systems	N/A in 2005	3
ECTE464	Antennas and Propagation	N/A in 2005	3
ECTE465	Wireless Communications	Spring	3
ECTE466	Spread Spectrum Communications	N/A in 2005	3
ECTE467	Mobile Networks	N/A in 2005	3
ECTE468	Error Control Coding	N/A in 2005	3
ECTE481	Internet Protocols	N/A in 2005	3
ECTE482	Internet Engineering	Spring	3
ECTE484	Network Design and Analysis	N/A in 2005	3
ECTE486	Telecommunications Network Management	N/A in 2005	3

**Telecommunications Option**

Years 3 & 4/ Stages 4 & 6:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
- (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
  - (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

- (b) ECTE281 Embedded Internet Systems.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

**Professional Recognition**

The Bachelor of Engineering (Computer Engineering) and the Bachelor of Engineering (Electrical Engineering) degrees are accredited by Engineers Australia and the Singapore Professional Engineers Board.

The Bachelor of Engineering (Telecommunications Engineering) degree is accredited by Engineers Australia.

## Bachelor of Information and Communication Technology

Testamur Title of Degree:	Bachelor of Information and Communication Technology
Abbreviation:	BlInfoTech
Home Faculty:	Informatics
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	706A
UAC Code:	754111, 754112, 754115, 754121, 754122.
CRICOS Code:	003291D

### Overview

This degree is designed to provide graduates with the necessary knowledge and skills to be successful in the dynamic and changing world of Information Technology (IT).

The degree meets the needs of future IT professionals by ensuring students are taught foundation skills in areas such as programming, World Wide Web applications and the technical management of IT. In addition, students are equipped with the knowledge that enables them to make sense of changing business environments, the role of IT in this change and where this change is likely to lead.

Students undertake a major in one of the following areas:

- Business Information Systems
- eBusiness Management
- eBusiness Technologies
- Network and Systems Management
- Software Engineering

In providing a multi-disciplinary approach to the study of Information Technology (IT), students may combine the major studies listed above or complete a second major in an area such as Electronic Commerce, Data Analysis, Marketing or Modelling.

In addition, students may choose subjects from Multimedia, Management, Law, Communications and Science and Technology Studies.

Students are awarded an Honours degree if they perform at a sufficiently high level throughout their studies and enrol in the research project subjects in their fourth year.

### Entry Requirements / Assumed Knowledge

Approximate UAI: 80

Assumed Knowledge: Any two units of English plus Mathematics

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

### Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:

<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:

<http://www.uow.edu.au/prospective/international/credit>

### Course Requirements

A candidate must satisfactorily complete the following requirements to be eligible for the award of the degree of Bachelor of Information and Communication Technology:

1. Candidates must satisfactorily complete at least 192 credit points of subjects prescribed in one of the major studies listed below. The programs listed below are guidelines as to how best to proceed through the course. Candidates may enrol as they see fit, but must satisfactorily complete all prescribed compulsory subjects, and the credit points prescribed for electives, and satisfy all other requirements listed below to be eligible for the award.
2. No more than 60 credit points may be 100-level subjects.
3. At least 36 credit points must be 300-level subjects.
4. At least 42 credit points must be chosen from the IACT 400-Level Subject List.

5. All students must satisfactorily complete one of IACT450 or IACT451 (admission to IACT450 is subject to conditions noted in paragraph 6 below). Students may not gain credit for the completion of both subjects.
6. To be eligible for the award of Honours, candidates must satisfactorily complete IACT441 and IACT450 within the 42 credit points prescribed in requirement 4.
7. Entry to IACT441 will be based on:
  - a) overall academic performance,
  - b) either a weighted average mark (WAM) of at least 67.5 or, where a student has articulated into the program and has completed less than 48 credit points at UOW, a weighted GPA based on prior qualification plus WAM for session completed at UOW, and
  - c) approval from the Head of School.

Candidates should refer to the Course Rules for calculations of WAMs.

### Industry Placement

BlInfoTech students must satisfactorily complete two 8 week periods of approved industry placement, assessed in the form of written reports. These are normally undertaken in the summer sessions at the end of second and third year.

In exceptional circumstances where a student has proven substantive work experience in relevant industry they may apply to be exempted from the Industry placement, but, if approved, will be required to undertake an alternative task(s) as specified by the Head of School.

### **Major Study Areas**

Students enrolled in this degree must complete one of the following approved major studies or combined major studies:

ITE	Software Engineering
ITB	Network and Systems Management
ITD	Business Information Systems
ITI	eBusiness Management
ITJ	eBusiness Technologies
ITEB	Software Engineering / Network and Systems Management
ITED	Software Engineering / Business Information Systems
ITBD	Network and Systems Management / Business Information Systems
ITEE	Software Engineering / Marketing
ITBE	Network and Systems Management / Marketing
ITDE	Business Information Systems / Marketing
ITEF	Software Engineering / Data Analysis
ITBF	Network and Systems Management / Data Analysis
ITDF	Business Information Systems / Data Analysis
ITEG	Software Engineering / Modelling
ITBG	Network and Systems Management / Modelling
ITDG	Business Information Systems / Modelling
ITEH	Software Engineering / Electronic Commerce
ITBH	Network and Systems Management / Electronic Commerce
ITDH	Business Information Systems / Electronic Commerce
ITDI	Business Information Systems / eBusiness Management
ITDJ	Business Information Systems / eBusiness Technologies
ITIB	eBusiness Management / Network and Systems Management
ITIE	eBusiness Management / Software Engineering
ITIJ	eBusiness Management / eBusiness Technologies
ITIK	eBusiness Management / Marketing
ITJB	eBusiness Technologies / Network and Systems Management
ITJE	eBusiness Technologies / Software Engineering
ITJK	eBusiness Technologies / Marketing

### **Additional Subjects List**

The following subjects are approved for inclusion in the BlInfoTech degree.

When choosing subjects from the Additional Subject List, it is recommended that students examine sequences suggested in the handouts produced by the School. Check subject information to ensure that pre- and co-requisites are met.

Subjects		Session	Credit Points
ACCY100	Accounting IA	Autumn/Spring	6
ACCY102	Accounting IB	Spring/Summer	6
ACCY231	Information Systems in Accounting	Spring	6
ACCY380	Accounting for Information Technology	Autumn/ Spring	6
BUSS102	Computer Systems	Autumn	6
BUSS111	Business Programming I (not to count with CSC1114)	Spring/Summer	6
BUSS201	User-Centered Business Programming	Autumn	6
BUSS211	Requirements Determination and Systems Analysis	Autumn	6

# Course Information

BUSS212	Database Management Systems	Spring	6
BUSS213	Multimedia in Organisations	Spring	6
BUSS214	Business Programming II	Autumn	6
BUSS215	Business Programming III	Spring	6
BUSS218	Systems Design and Architecture	Spring	6
BUSS308	Computer Systems Management	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed Information Systems	Autumn	6
BUSS315	Knowledge-Based Information Systems	Autumn	6
BUSS316	Information Systems Prototyping	Autumn	6
BUSS317	Business Programming IV	Spring	6
COMM351	Business Ethics and Governance	Spring	6
CCS105	Introduction to Communications and Cultural Studies	Autumn	6
CSCI102	Systems	Spring	6
CSCI103	Algorithms and Problem Solving	Autumn/ Spring	6
CSCI114	Procedural Programming (not to count with BUSS111)	Autumn/ Spring	6
CSCI124	Object Programming	Autumn/ Spring	6
CSCI203	Algorithms and Data Structures	Autumn	6
CSCI204	The C Family and Unix	Autumn/ Spring	6
CSCI205	Development Methods and Tools	Spring	6
CSCI212	Interacting Systems	Autumn	6
CSCI213	Java Programming and The Internet	Autumn	6
CSCI214	Distributed Systems	Spring	6
CSCI222	Systems Development	Spring	6
CSCI235	Databases	Spring	6
CSCI236*	3D Modelling and Animation	Spring and Summer	6
CSCI262	Systems Security	Spring	6
CSCI311	Software Process Management	Autumn	6
CSCI313	Professional Programming Practices	N/A in 2005	6
CSCI315	Database Design and Implementation	Autumn	6
CSCI317	Database Performance Tuning	Spring	6
CSCI321	Project	Annual	12
CSCI322	Systems Administration	Spring	6
CSCI324	Human Computer Interface	Spring	6
CSCI325	Software Engineering Formal Methods	Autumn	6
CSCI333	Compilers	N/A in 2005	6
CSCI334	Interfacing and Real Time Programming	Spring	6
CSCI336	Computer Graphics	Autumn	6
CSCI337	Organisation of Programming Languages	Spring	6
CSCI361	Computer Security	Autumn	6
CSCI368	Network Security	Spring	6
CSCI399	Server Technology	Autumn	6
ECON101	Macroeconomic Essentials for Business	Autumn/ Spring	6
ECON111	Introductory Microeconomics	Autumn/ Spring	6
ECON215	Microeconomic Theory and Policy	Autumn/ Spring	8
ECON319	Electronic Commerce and the Economics of Information	Spring	8
EDUE313	Interactive Multimedia by Design	Autumn	6
EDUE314	Interactivity and The Web	Spring	6
EDUE413	Managing Multimedia Resources	Autumn	6
EDUE414	Cognition, Interface and Interactivity	Spring	6
ECTE171	Introduction to Signals and Systems	Autumn	6
ECTE172	Introduction to Circuits and Devices	Spring	6
ECTE182	Internet Technology 1	Spring	6
ECTE195	Design and Management	Autumn	6
ECTE233	Digital Hardware I	Autumn	6
ECTE282	Internet Systems	Autumn	6
ECTE283	Internet Technology II	Spring	6
ECTE333	Digital Hardware 2	Spring	6
ECTE363	Communication Theory	Spring	6
ECTE364	Telecommunications Networks 1	Autumn	6
ECTE491	Computer Architectures	Autumn	6
ELL151	English for Academic Purposes: A Second Language Perspective	Autumn	6
ELL152	English Language Studies 1	Spring	6
ELL161	English for Academic Purposes: A First Language Perspective	Spring	6
IACT303	World Wide Networking	Spring	6
IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
ITCS201	Markup Languages	Autumn	6
ITCS301	Exploiting Collaborative Technologies	Spring	6
LAW100	Law in Society	Autumn	6
LAW210	Contract Law	Spring	6
LAW331	Intellectual Property Law	Autumn	6
LAW348	Media Law	N/A in 2005	6
MATH121	Discrete Mathematics	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
MATH142	Mathematics 1C Part 2	Spring	6



MATH161	Mathematics 1E Part 1	Spring	6
MATH162	Mathematics 1E Part 2	Summer	6
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH202	Differential Equations 2	Spring	6
MATH203	Linear Algebra	Autumn	6
MATH212	Applied Mathematical Modelling 2	Spring	6
MATH302	Differential Equations 3	Autumn	6
MATH312	Applied Mathematical Modelling 3	Autumn	6
MATH313	Industrial Mathematical Modelling	Spring	6
MGMT102	Business Communications	Spring	6
MGMT110	Introduction to Management and Employment Relations	Autumn/ Spring	6
MGMT200	Management and Electronic Business	Autumn	6
MGMT201	Organisational Behaviour	Autumn	6
MGMT220	Organisational Studies	Spring	6
MGMT300	Innovation and Electronic Commerce	Spring	6
MGMT309	Supply Chain Management	Spring	6
MGMT311	Management of Change	Spring	6
MGMT314	Strategic Management	Autumn/Spring	6
MGMT321	Management of Occupational Health and Safety	Spring	6
MGMT398	Human Resource Management	Autumn/Spring	6
MARK101	Marketing Principles	Autumn/ Spring	6
MARK217	Consumer Behaviour	Autumn	6
MARK270	Services Marketing	Spring	6
MARK301	Internet Applications for Marketing	Spring	6
MARK317	Business to Business Marketing	Autumn	6
MARK343	International Marketing	Autumn	6
MARK344	Marketing Strategy	Spring	6
MARK356	New Product Marketing	Autumn	6
MARK359	Sales Management	Spring	6
MARK397	Retail Marketing Management	Autumn	6
PHYS142	Fundamentals of Physics B	Spring	6
POL111	Australian Politics	Autumn	6
POL224	Politics and the Media	Spring	8
POL225	International Relations: An Introduction	Autumn	8
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	8
STAT231	Probability and Random Variables	Autumn	6
STAT232	Estimation and Hypothesis Testing	Spring	6
STAT332	Multiple Regression And Time Series	Spring	6
STAT304	Operations Research and Applied Probability	Spring	6
STS100	Social Aspects of Science and Technology	Autumn	6
STS116	Environment in Crisis: Technology and Society	Spring	6
STS120	Technology in Society: East and West	Spring	6
STS128	Computers in Society	Spring	6
STS241	Technological Change, Popular Culture & New Media	Spring	6

or any subject approved by the Head of School

\* Please note that this subject runs over both Spring and Summer sessions. Results will not be declared until the end of Summer session, so this subject is not suitable for anyone wishing to graduate in December.

## IACT 400 Level Subject List

Note: pre-requisites for all 400-level subjects is a minimum of 24 credit points at 300-level

Subjects	Session	Credit Points
IACT401	IT Strategic Planning	Spring 6
IACT402	Applied Project Management	Spring 6
IACT403	Human Computer Interface	Spring 6
IACT404	International Telecommunications Policy Issues	N/A in 2005 6
IACT405	Information Technology and Innovation	Autumn 6
IACT406	Strategic eBusiness Solutions	Spring 6
IACT416	Organisational Issues in Information Technology	Autumn 6
IACT417	Information Management	Autumn 6
IACT418	Corporate Network Management	Autumn 6
IACT419	On-Line Information Services	Spring 6
IACT422	Case Studies in Information Technology Applications	Spring 6
IACT424	Corporate Network Design and Implementation	Spring 6
IACT426	Information Society, Knowledge Work and Information Technology	N/A in 2005 6
IACT430	Special Topics in Information and Communication Technology	N/A in 2005 6
IACT431	Special Topics in Information and Communication Technology - A	N/A in 2005 6

## Course Information

IACT432	Special Topics in Information and Communication Technology - B	N/A in 2005	6
IACT433	Special Topics in Telecommunications Issues	N/A in 2005	6
IACT441	IT Research Methodology	Autumn	6
IACT450	Research Report	Spring	18
CSCI407	Corba & Enterprise Java	Spring	6
CSCI408	Distributed Java	N/A in 2005	6
CSCI425	Topics in Software Engineering	Autumn	6
CSCI444	Perception and Planning	Spring	6
CSCI445	Parallel Computing	N/A in 2005	6
CSCI446	Multimedia Studies	Autumn	6
CSCI450	Software Engineering Requirements and Specifications	Spring	6
CSCI457	Advanced Topics in Database Management	Spring	6
CSCI463	Advanced Computer Graphics	N/A in 2005	6
CSCI464	Neural Computing	Autumn	6
CSCI465	Design and Analysis of Algorithms	N/A in 2005	6
CSCI466	Coding for Secure Communication	Spring	6
CSCI467	Complexity Theory	N/A in 2005	6
CSCI471	Advanced Computer Security	Spring	6
INFO411	Data Mining & Knowledge Discovery	Spring	6
INFO412	Mathematics for Cryptography	Autumn	6
INFO413	Information Theory	Spring	6
ITCS429	Concept and Issues in Healthcare Computing	Spring	6
ITCS430	Introduction to Health Informatics	Autumn	6
ITCS431	Advanced Web Application Development	Spring	6
ITCS432	Web Design	Spring	6
ITCS436	Detailed Design of Integrated Solutions for eBusiness	Spring	6
ITCS450	Patterns for eBusiness	N/A in 2005	6
ITCS451	Web Services for Dynamic eBusiness	Spring	6

Note: Not all subjects available every year.

## Honours

To qualify for an award of Honours students must satisfactorily complete IACT441 and IACT450 and any other requirements listed in Year 4 (Honours) of one of the Major study programs listed below.

Students intending to do Honours should apply and be accepted by the end of December of the previous year.

## Major Study Areas

### Software Engineering (code ITE)

#### Major Study

To satisfy the requirements for a major study in Software Engineering, a student shall satisfactorily complete the following program:

Subjects		Session	Credit Points
Year 1			
CSCI102	Systems	Spring	6
CSCI103	Algorithms and Problem Solving	Autumn	6
CSCI114	Procedural Programming	Autumn	6
CSCI124	Object Programming	Spring	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
ECTE182	Internet Technology I	Spring	6
Plus 100-level subjects chosen from the Additional Subjects List, or second major subjects.			12
Year 2			
CSCI204	The C Family and Unix	Autumn/ Spring	6
CSCI205	Development Methods and Tools	Spring	6
CSCI235	Databases	Spring	6
CSCI213	Java Programming and the Internet	Autumn	6
IACT201	Information Technology and Citizens' Rights	Autumn	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
Plus 200-level subjects chosen from the Additional Subjects List, or second major subjects.			12
Year 3			
CSCI311	Software Process Management	Autumn	6
CSCI321	Project	Annual	12
CSCI325	Software Engineering Formal Methods	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
Plus 200/300-level subjects chosen from the Additional Subjects List, or second major subjects.			12

**Year 4 (non-Honours)**

IACT451	IT Project	Annual	12
Plus two subjects chosen from:			
CSCI425	Topics in Software Engineering	Autumn	6
CSCI450	Software Requirement and Specifications	Spring	6
IACT402	Applied Project Management	Spring	6
Plus additional subjects chosen from the IACT400 Level Subjects List			18
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List			6

**Year 4 (Honours)**

IACT441	IT Research Methodology	Autumn	6
IACT450	Research Report	Spring	18
Plus two subjects chosen from:			
CSCI425	Topics in Software Engineering	Autumn	6
CSCI450	Software Requirement and Specifications	Spring	6
IACT402	Applied Project Management	Spring	6
Plus one subject chosen from the IACT400 Level Subjects List			6
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List			6

**Double Major**

A major in Software Engineering can be combined with Network and Systems Management, Business Information Systems, Marketing, Data Analysis, Modelling or Electronic Commerce.

**Network and Systems Management (code ITB)****Major Study**

To satisfy the requirements for a major study in Network and Systems Management, a student shall satisfactorily complete the following program:

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI102	Systems	Spring	6
CSCI103	Algorithms and Problem Solving	Autumn	6
CSCI114	Procedural Programming	Autumn	6
CSCI124	Object Programming	Spring	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
ECTE182	Internet Technology I	Spring	6
Plus 100-level subjects chosen from the Additional Subjects List, or second major subjects.			12
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/ Spring	6
CSCI212	Interacting Systems	Autumn	6
CSCI213	Java Programming and the Internet	Autumn	6
ECTE283	Internet Technology II	Spring	6
IACT201	Information Technology and Citizens' Rights	Autumn	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
Plus 200-level subjects chosen from the Additional Subjects List, or second major subjects.			12
<b>Year 3</b>			
CSCI322	Systems Administration	Spring	6
CSCI399	Server Technology	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
Plus 200/300-level subjects chosen from the Additional Subjects List, or second major subjects.			24
<b>Year 4 (Non-Honours)</b>			
IACT451	IT Project	Annual	12
IACT418	Corporate Network Management	Autumn	6
IACT424	Corporate Network Design and Implementation	Spring	6
Plus additional subjects chosen from the IACT400 Level Subjects List			18
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List			6
<b>Year 4 (Honours)</b>			
IACT441	IT Research Methodology	Autumn	6
IACT450	Research Report	Spring	18
IACT418	Corporate Network Management	Autumn	6
IACT424	Corporate Network Design and Implementation	Spring	6
Plus one subject chosen from the IACT400 Level Subjects List			6
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List			6

**Double Major**

A major in Network and Systems Management can be combined with Software Engineering, Business Information Systems, Marketing, Data Analysis, Modelling or Electronic Commerce. Second major requirements are listed below.

**Business Information Systems (code ITD)****Major Study**

To satisfy the requirements for a major study in Business Information Systems, a student shall satisfactorily complete the following program:

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI102	Systems	Spring	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
Plus either: BUSS111	Business Programming I	Spring/ Summer	6
or CSCI114	Procedural Programming	Autumn/ Spring	6
Plus 100-level subjects chosen from the Additional Subject List, or second major subjects			18
Plus 100-level subjects chosen from the General Schedule			12
<b>Year 2</b>			
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS212	Database Management Systems	Spring	6
BUSS214	Business Programming II	Autumn	6
IACT201	Information Technology and Citizens' Rights	Autumn	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
Plus 200-level subjects chosen from the Additional Subject List, or second major subjects			18
Note: BUSS218 is strongly recommended by not mandatory			
<b>Year 3</b>			
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed Information Systems	Autumn	6
BUSS316	Information Systems Prototyping	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
Plus either: BUSS317	Business Programming IV	Spring	6
or BUSS308	Computer Systems Management	Spring	6
Plus 200/300-level subjects chosen from the Additional Subject List, or second major subjects			12
<b>Year 4 (Non-Honours)</b>			
IACT451	IT Project	Annual	12
Plus additional subjects chosen from the IACT400 Level Subjects List			30
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List			6
<b>Year 4 (Honours)</b>			
IACT441	IT Research Methodology	Autumn	6
IACT450	Research Report	Spring	18
Plus additional subjects chosen from the IACT400 Level Subjects List			18
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List			6

**Double Major**

A major in Business Information Systems can be combined with Software Engineering, Network and Systems Management, eBusiness Management, eBusiness Technologies, Marketing, Data Analysis, Modelling or Electronic Commerce. Second major requirements are listed below.

**eBusiness Management (code ITI)**

Conducting business online is an increasingly essential feature of an organisation's operation, and the challenges faced are an integrated mix of adaptive business strategies that exploit rapidly evolving technologies. This new major emphasises the business strategy perspective, while providing an understanding of the relevance of both business strategy and IT.

**Major Study**

To satisfy the requirements for a major study in eBusiness Management, a student shall satisfactorily complete the following program:

Subjects		Session	Credit Points
<b>Year 1</b>			
MGMT102	Business Communications	Spring	6
CSCI102	Systems	Spring	6
ECTE182	Internet Technology 1	Spring	6
Plus either:			
BUSS111	Business Programming I	Spring/Summer	6
or			
CSCI114	Procedural Programming	Autumn/Spring	6
Plus 100-level subjects chosen from the Additional Subject List, or second major subjects			12
Plus 100-level subjects chosen from the General Schedule			12

Note: Students are advised that when choosing subjects at 100-level they should plan ahead and carefully consider the impact on their 200-level choices. Some subjects at 200-level have specific pre-requisites.

<b>Year 2</b>			
IAC201	Information Technology and Citizens' Rights	Autumn	6
IAC202	The Structure and Organisation of Telecommunications	Spring	6
ITCS201	Markup Languages	Autumn	6
Plus at least one of the following subjects:			
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
CSCI205	Development Methods & Tools	Spring	6
Plus at least one of the following subjects:			
BUSS212	Database Management Systems	Spring	6
CSCI235	Databases	Spring	6
Plus at least one of the following subjects:			
MGMT200	Management & Electronic Business	Autumn	6
MGMT201	Organisational Behaviour	Autumn	6
MGMT220	Organisational Studies	Spring	6
Plus 200-level subjects chosen from the Additional Subject List, or second major subjects			12

<b>Year 3</b>			
IAC301	Information and Communication Security Issues	Spring	6
IAC302	Corporate Network Planning	Autumn	6
IAC304	Principles of eBusiness	Autumn	6
Plus at least one of the following subjects:			
MGMT300	Innovation & Electronic Commerce	Spring	6
MGMT309	Supply Chain Management	Spring	6
MGMT311	Management of Change	Spring	6
Plus 300-level subjects chosen from the Additional Subject List, or second major subjects			24

<b>Year 4 (Non-Honours)</b>			
ITCS450	Patterns for eBusiness	N/A in 2005	6
IAC406	Strategic eBusiness Solutions	Spring	6
IAC451	IT Project	Annual	12
Plus additional subjects chosen from the IACT400 Level Subjects List			18
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List			6

<b>Year 4 (Honours)</b>			
ITCS450	Patterns for eBusiness	N/A in 2005	6
IAC406	Strategic eBusiness Solutions	Spring	6
IAC441	IT Research Methodology	Autumn	6
IAC450	Research Report	Spring	18
Plus one subject chosen from the IACT400 Level Subjects List			6
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List			6

### Double Major

A major in eBusiness Management can be combined with Business Information Systems or eBusiness Technologies. Second major requirements are listed above and below.

### eBusiness Technologies (code ITJ)

Conducting business online is an increasingly essential feature of an organisation's operation, and the challenges faced are an integrated mix of adaptive business strategies that exploit rapidly evolving technologies. This new major emphasises a hands-on system development perspective, while providing an understanding of the relevance of both business strategy and IT.

### Major Study

To satisfy the requirements for a major study in eBusiness Technologies, a student shall satisfactorily complete the following program:

## Course Information

Subjects	Session	Credit Points
<b>Year 1</b>		
MGMT102	Business Communications	Spring 6
CSCI102	Systems	Spring 6
ECTE182	Internet Technology 1	Spring 6
Plus either: BUSS111	Business Programming I	Spring 6
or CSCI114	Procedural Programming	Autumn/Spring 6
Plus 100-level subjects chosen from the Additional Subject List, or second major subjects		12
Plus 100-level subjects chosen from the General Schedule		12
Note: Students are advised that when choosing subjects at 100-level they should plan ahead and carefully consider the impact on their 200-level choices. Some subjects at 200-level have specific pre-requisites.		
<b>Year 2</b>		
IACT201	Information Technology and Citizens' Rights	Autumn 6
IACT202	The Structure and Organisation of Telecommunications	Spring 6
ITCS201	Markup Languages	Autumn 6
Plus at least one of the following subjects:		
BUSS211	Requirements Determination and Systems Analysis	Autumn 6
CSCI205	Development Methods & Tools	Spring 6
Plus at least one of the following subjects:		
BUSS212	Database Management Systems	Spring 6
CSCI235	Databases	Spring 6
Plus either: BUSS214	Business Programming II	Autumn 6
or CSCI213	Java Programming and the Internet	Autumn 6
Plus 200-level subjects chosen from the Additional Subject List, or second major subjects		12
<b>Year 3</b>		
IACT301	Information and Communication Security Issues	Spring 6
IACT302	Corporate Network Planning	Autumn 6
IACT305	eBusiness Technologies	Autumn 6
ITCS301	Exploiting Collaborative Technologies	Spring 6
Plus 300-level subjects chosen from the Additional Subject List, or second major subjects		24
<b>Year 4 (Non-Honours)</b>		
ITCS450	Patterns for eBusiness	N/A in 2005 6
IACT451	IT Project	Annual 12
Plus one subject chosen from the following:		
ITCS436	Detailed Design of Integrated Solutions for eBusiness	Spring 6
ITCS451	Web Services for Dynamic eBusiness	Spring 6
Plus additional subjects chosen from the IACT400 Level Subjects List		18
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List		6
<b>Year 4 (Honours)</b>		
ITCS450	Patterns for eBusiness	N/A in 2005 6
IACT441	IT Research Methodology	Autumn 6
IACT450	Research Report	Spring 18
Plus one subjects chosen from the following:		
ITCS436	Detailed Design of Integrated Solutions for eBusiness	Spring 6
ITCS451	Web Services for Dynamic eBusiness	Spring 6
Plus one subject chosen from the IACT400 Level Subjects List		6
Plus one subject chosen from the IACT400 Level Subjects List or the Additional Subjects List		6

## Double Major

A major in eBusiness Technologies can be combined with Business Information Systems or eBusiness Management. Second major requirements are listed above.

## Marketing Combined Major Study (Code ITEE, ITBE, ITDE, ITIK or ITJK)

This double major requires satisfactory completion of a major study in Business Information Systems, Network and Systems Management, Software Engineering, eBusiness Technologies or eBusiness Management and satisfactory completion of a major study in Marketing, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Marketing major. All students must satisfy subject prerequisites except where waivers have been granted.

**Data Analysis Combined Major study (Code ITEF, ITBF or ITDF)**

This double major requires satisfactory completion of a major study in Business Information Systems, Network and Systems Management or Software Engineering and satisfactory completion of the following approved 54 credit point major in Data Analysis:

Subjects		Session	Credit Points
<b>Year 1</b>			
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
<b>Year 2</b>			
STAT231	Probability and Random Variables	Autumn	6
STAT232	Estimation and Hypothesis Testing	Spring	6
MATH203	Linear Algebra	Autumn	6
<b>Year 3</b>			
STAT332	Multiple Regression and Time Series	Spring	6
STAT335	Sample Surveys and Experimental Design	Autumn	6
STAT304	Operations Research and Applied Probability	Spring	6

**Modelling Combined Major study (Code ITEG, ITBG or ITDG)**

This double major requires satisfactory completion of a major study in Business Information Systems, Network and Systems Management or Software Engineering and satisfactory completion of the following approved 54 credit point major in Modelling:

Subjects		Session	Credit Points
<b>Year 1</b>			
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
<b>Year 2</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH202	Differential Equations 2	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
<b>Year 3</b>			
MATH302	Differential Equations 3	Autumn	6
MATH312	Applied Mathematical Modelling 3	Autumn	6
MATH313	Industrial Mathematical Modelling	Spring	6

**Electronic Commerce Combined Major study (code ITEH, ITBH or ITDH)**

This double major requires satisfactory completion of a major study in Business Information Systems, Network and Systems Management or Software Engineering and satisfactory completion of the following approved 48 credit point major in Electronic Commerce:

Subjects		Session	Credit Points
<b>200-Level</b>			
200-level Electronic Commerce subjects			18
<b>300-Level</b>			
IACT303	World Wide Networking	Spring	6
Plus			
300-level Electronic Commerce subjects			18
<b>400-Level</b>			
400-level Electronic Commerce subject			6
<b>Electronic Commerce Subjects</b>			
ACCY231	Information Systems in Accounting	Spring	6
ACCY332	Advanced Information Systems in Accounting	Autumn	6
ACCY335	Advanced Information Systems in Accounting II	Spring	6
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS212	Database Management Systems	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed Information Systems	Autumn	6
CSCI213	Java Programming and the Internet	Autumn	6
CSCI214	Distributed Systems	Spring	6
CSCI236*	3D Modelling and Animation	Spring and Summer	6
CSCI311	Software Process Management	Autumn	6
CSCI361	Computer Security	Autumn	6
CSCI399	Server Technology	Autumn	6
ECON230	Quantitative Analysis for Decision Making	Spring	6

## Course Information

ECON312	Industrial Economics	Autumn	6
ECON319	Electronic Commerce and the Economics of Information	Spring	6
FIN353	Global Electronic Finance	N/A in 2005	6
IACT201	Information Technology and Citizens' Rights	Autumn	6
IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
IACT417	Information Management	Autumn	6
IACT419	Online Information Services	Spring	6
ITCS436	Detailed Design of Integrated Solutions for eBusiness	Spring	6
ITCS450	Patterns for eBusiness	N/A in 2005	6
ITCS451	Web Services for Dynamic eBusiness	Spring	6
LAW210	Contract Law	Spring	6
LAW317	E-Commerce Law	Spring	6
LAW331	Intellectual Property Law	Autumn	6
MARK301	Internet Applications for Marketing	Spring	6
MGMT200	Management and Electronic Business	Autumn	6
MGMT300	Innovation and Electronic Commerce	Spring	6

\* Please note that this subject runs over both Spring and Summer sessions. Results will not be declared until the end of Summer session, so this subject is not suitable for anyone wishing to graduate in December.

## Professional Recognition

The major studies in Business Information Systems, Network and Systems Management and Software Engineering are accredited by the Australian Computer Society as meeting requirements for membership at a 'Professional level'.

Accreditation for the major studies in eBusiness Management and eBusiness Technologies is being sought in 2005.

## Bachelor of Information Technology

Testamur Title of Degree:	Bachelor of Information Technology
Abbreviation:	BIT
Home Faculty:	Informatics
Duration:	3 years (6 sessions) or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Year 1 – Off-shore; Years 2 and 3 Wollongong or off-shore depending on the overseas institution.
UOW Course Code:	868, SN868
UAC Code:	N/A
CRICOS Code:	031440G

## Overview

This three-year full-time degree is designed for offshore delivery. Entry into Year 2 or 3 (on-shore Wollongong Campus) is possible for students who have completed a recognised offshore program, or who have at least 48 credit points of appropriate advanced standing, including specified credit for all Year 1 core subjects, from another recognised institution.

The degree has two major studies: Information Systems and Computing.

## Entry Requirements / Assumed Knowledge

Entry into Years 2 or 3 (Wollongong Campus) is conditional on successful completion of a recognised overseas program or other approved advanced standing.

## Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>.

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>.

## Course Requirements

To qualify for the award of the degree of Bachelor of Information Technology, candidates must satisfactorily complete at least 144 credit points as set out in one of the course structures below. Note that no more than 1/6 of the total credit points completed can be at PC grade.



**Computing Major**

Subjects		Session	Credit Points
<b>Year 1</b> -(not available onshore)			
CSCI102	Systems	Spring	6
CSCI103	Algorithms and Problem Solving	Autumn	6
CSCI114	Procedural Programming	Autumn	6
CSCI124	Object Programming	Spring	6
MATH121	Discrete Mathematics	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
Plus 100-level subjects chosen from the BIT Electives Schedule or General Schedule			12
<b>Year 2</b>			
CSCI203	Algorithms and Data Structures	Autumn	6
CSCI204	The C Family and Unix	Autumn/ Spring	6
CSCI212	Interacting Systems	Autumn	6
CSCI213	Java Programming and the Internet	Autumn	6
CSCI222	Systems Development	Spring	6
CSCI235	Databases	Spring	6
IACT201	Information Technology and Citizens Rights	Autumn	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
<b>Year 3</b>			
CSCI321	Project	Annual	12
CSCI311	Software Process Management	Autumn	6
IACT302	Corporate Network Planning	Autumn	6
CSCI315	Database Design and Implementation	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
Plus 200/300-level subjects chosen from the BIT Electives Schedule.			12

**Information Systems Major**

Subjects		Session	Credit Points
<b>Year 1</b> (not available onshore)			
CSCI102	Systems	Spring	6
CSCI103	Algorithms and Problem Solving	Autumn	6
CSCI114	Procedural Programming	Autumn	6
CSCI124	Object Programming	Spring	6
MATH121	Discrete Mathematics	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
Plus 100-level subjects chosen from the BIT Electives Schedule or General Schedule			12
<b>Year2</b>			
BUSS201	User-Centred Business Programming	Autumn	6
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS214	Business Programming II	Autumn	6
IACT201	Information Technology and Citizens' Rights	Autumn	6
BUSS212	Database Management Systems	Spring	6
BUSS213	Multimedia in Organisations	Spring	6
BUSS215	Business Programming III	Spring	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
<b>Year 3</b>			
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed Information Systems	Autumn	6
BUSS315	Knowledge-Based Information Systems	Autumn	6
IACT302	Corporate Network Planning	Autumn	6
BUSS316	Information Systems Prototyping	Autumn	6
BUSS317	Business Programming IV	Spring	6
BUSS318	Information Systems Project	Spring	6
IACT301	Information and Communication Security Issues	Spring	6

**BIT Electives Schedule**

Subjects		Session	Credit Points
BUSS201	User-Centred Business Programming	Autumn	6
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS212	Database Management Systems	Spring	6
BUSS213	Multimedia in Organisations	Spring	6
BUSS214	Business Programming II	Autumn	6
BUSS215	Business Programming III	Spring	6
BUSS218	Systems Design and Architecture	Spring	6
BUSS308	Computer Systems Management	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed Information Systems	Autumn	6
BUSS315	Knowledge-Based Information Systems	Autumn	6
BUSS316	Information Systems Prototyping	Autumn	6

## Course Information

BUSS317	Business Programming IV	Spring	6
BUSS318	Information Systems Project	Spring	6
CSCI203	Algorithms and Data Structures	Autumn	6
CSCI204	The C Family and Unix	Autumn/ Spring	6
CSCI205	Development Methods and Tools	Spring	6
CSCI212	Interacting Systems	Autumn	6
CSCI213	Java Programming and the Internet	Autumn	6
CSCI214	Distributed Systems	Spring	6
CSCI222	Systems Development	Spring	6
CSCI235	Databases	Spring	6
CSCI236*	3D Modelling and Animation	Spring and Summer	6
CSCI262	Systems Security	Spring	6
CSCI311	Software Process Management	Autumn	6
CSCI315	Database Design and Implementation	Autumn	6
CSCI317	Database Performance Tuning	Spring	6
CSCI322	Systems Administration	Spring	6
CSCI324	Human Computer Interface	Spring	6
CSCI325	Software Engineering Formal Methods	Autumn	6
CSCI334	Interface Real Time Programming	Spring	6
CSCI336	Computer Graphics	Autumn	6
CSCI361	Computer Security	Autumn	6
CSCI368	Network Security	Spring	6
CSCI399	Server Technology	Autumn	6
IACT201	Information Technology and Citizens Rights	Autumn	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT303	World Wide Networking	Spring	6
ITCS201	Markup Languages	Autumn	6
ITCS301	Exploiting Collaborative Technologies	Spring	6

\* Please note that this subject runs over both Spring and Summer sessions. Results will not be declared until the end of Summer session, so this subject is not suitable for anyone wishing to graduate in December.

## Professional Recognition

The Bachelor of Information Technology is accredited by the Australian Computer Society as meeting requirements for membership at a 'Professional level'.

## Bachelor of Internet Science and Technology

Testamur Title of Degree:	Bachelor of Internet Science and Technology
Abbreviation:	BIST
Home Faculty:	Informatics
Duration:	3 years (6 sessions) or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to -face
Starting Session(s):	Autumn/Spring
Location:	Wollongong; Singapore.
UOW Course Code:	785, SN785.
UAC Code:	754114
CRICOS Code:	032444G

## Overview

The Internet and World Wide Web have revolutionised the way business is conducted and the way information, education and entertainment services are delivered.

In addition, the Internet is being upgraded and increasingly being incorporated into public telecommunications systems. With more people using the Internet, there is a greater demand for services and information. The next generation of Internet technologies is expected to become a major motivator for on-going business reform over the next five to ten years. The Federal Government has targeted the Internet and the on-line economy as a priority.

This degree provides students with the technical background required to lead the next generation of Internet developments. The degree uses a mix of problem-based learning and more traditional methods used in science and engineering programs. Through collaborative, multidisciplinary project-based learning, students will develop competency in Internet science and technology skills, teamwork and management, giving them a competitive advantage in industry.

This degree has four majors to choose from:

- Internet Technology
- Internet Applications
- Internet Commerce

- Internet Science

All majors include a substantial amount of programming. Common subjects across the majors ensure that students have an understanding of the basics of hardware and some of the legal and social aspects of the Internet.

### Entry Requirements / Assumed Knowledge

Approximate UAI: 75

Assumed Knowledge: Any two units of English plus Mathematics

Recommended Studies: HSC Mathematics Extension 1

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

### Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>

### Course Requirements

To be eligible for the award of the degree of Bachelor of Internet Science and Technology, a candidate shall accrue an aggregate of at least 144 credit points by satisfactory completion of subjects prescribed in one of the majors listed below, which must include:

- no more than 60 credit points at 100-level;
- at least 36 credit points at 300/400-level.

Note: Subjects can be undertaken in a different order to that listed in the programs below. However, all subjects must be successfully completed to be awarded the degree.

### Honours

Candidates who achieve a credit average or better in the Bachelor of Internet Science and Technology are eligible to enrol in an additional year's study towards a Bachelor of Internet Science and Technology (Honours) (BIST (Hons)).

To qualify for the award of Bachelor of Internet Science and Technology (Honours), candidates must complete BIST400. The level of Honours awarded at the completion of the course is determined in accordance with the University Course Rule 8.4(2).

The program of study for BIST(Hons) (i.e., BIST400 Internet Science & Technology IV Honours) is 48 credit points and will normally include:

- an 18 credit point project; and
- 30 credit points of coursework. This coursework component will consist of individual subjects, including:
  - a research methodology subject, as determined by the Course Coordinator and
  - other subjects, of which 18 credit points must be at 400 level, as approved by the Course Coordinator.

Note: Individual results for the coursework subjects attempted and the project will not be released. Instead, the final result for BIST400 will be calculated by weighting the coursework and project components according to their credit point value.

### Major Study Areas

#### Internet Technology (code IS01)

#### Major Study

To satisfy the requirements for a major study in Internet Technology, a student shall satisfactorily complete the following approved program:

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI102	Systems	Spring	6
CSCI103	Algorithms and Problem Solving	Autumn	6
CSCI114	Procedural Programming	Autumn	6
CSCI124	Object Programming	Spring	6
ECTE171	Introduction to Signals and Systems	Autumn	6
ECTE182	Internet Technology 1	Spring	6
STAT131	Understanding Variation and Uncertainty	Autumn/Spring	6

## Course Information

One of the following subjects is recommended, but may be replaced by an approved BIST Year 1 Elective subject:

MATH141	Mathematics 1C Part 1	Autumn	6
MATH161	Mathematics 1E Part 1	Spring	6
MATH187	Mathematics 1A Part 1	Autumn	6

### Year 1 Electives

ACCY100	Accounting 1A	Autumn/Spring	6
ACCY102	Accounting 1B	Spring/Summer	6
ECON101	Macroeconomic Essentials for Business	Autumn/Spring	6
ECON111	Introductory Micro Economics	Autumn/Spring	6
ECTE181	WWW Engineering	Autumn	6
LAW100	Law in Society	Autumn	6
MARK101	Marketing Principles	Autumn/Spring	6
MATH121	Discrete Mathematics	Autumn	6
MATH151	General Mathematics 1A	Autumn/Summer	6
MGMT110	Introduction to Management and Employment Relations	Autumn/Spring	6

### Year 2

CSCI213	Java Programming and the Internet	Autumn	6
ECTE233	Digital Hardware I	Autumn	6
ECTE282	Internet Systems	Autumn	6
ECTE283	Internet Technology 2	Spring	6
INFO202	Project	Annual	6
Plus three Year 2 Electives			18

### Year 2 Electives

CSCI204	The C Family and Unix	Autumn/Spring	6
CSCI214	Distributed Systems	Spring	6
CSCI235	Databases	Spring	6
DESN211	Introduction to Web Design	Autumn	6
DESN212	Advanced Web Design	Spring	6
DESN290	Introduction to Graphic Design Fundamentals	Spring/Summer	6
IACT201	Information Technology and Citizens' Rights	Autumn	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
ITCS201	Markup Languages	Autumn	6
MATH141	Mathematics 1C Part 1	Autumn	6
MATH161	Mathematics 1E Part 1	Spring	6
MATH187	Mathematics 1A Part 1	Autumn	6

### Year 3

ECTE333	Digital Hardware 2	Spring	6
ECTE364	Telecommunication Networks 1	Autumn	6
ECTE392	Wireless Internet	Autumn	6
IACT303	World Wide Networking	Spring	6

Students must choose one of the following subjects:

CSCI399	Server Technology	Autumn	6
ECTE281	Embedded Internet Systems	Spring	6

Plus three Year 3 Elective subjects, or a combination of INFO303, ECTE391 and/or Year 3 elective subjects to equal 18 credit points.

Students with a WAM of 70 + at 200 level are strongly recommended to take:

INFO303	Advanced Project	Annual	12
---------	------------------	--------	----

Students with a WAM of 70 + at 200 level may choose to take:

ECTE391	Internet Technology Project	N/A in 2005	6
---------	-----------------------------	-------------	---

### Year 3 Electives

COMM303	Development of Modern Business	Spring	6
COMM327	Business Innovation, Technology and Policy	Autumn/Spring	6
COMM351	Business Ethics and Governance	Spring	6
CSCI311	Software Process Management	Autumn	6
CSCI315	Database Design and Implementation	Autumn	6
CSCI324	Human Computer Interface	Spring	6
CSCI361	Computer Security	Autumn	6
CSCI446	Multimedia Studies	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
IACT417	Information Management	Autumn	6
IACT418	Corporate Network Management	Autumn	6
IACT419	Online Information Services	Spring	6
IACT424	Corporate Network Design and Implementation	Spring	6
ITCS432	Web Design	Spring	6
MARK343	International Marketing	Autumn	6
MGMT370	Project Management	N/A in 2005	6

Note that because of pre-requisites, some third year electives are dependent on the choice of electives at second year.

**Internet Applications (code IS02)****Major Study**

To satisfy the requirements for a major study in Internet Applications, a student shall satisfactorily complete the following approved program:

Subjects	Session	Credit Points
<b>Year 1</b>		
CSCI102 Systems	Spring	6
CSCI103 Algorithms and Problem Solving	Autumn	6
CSCI114 Procedural Programming	Autumn	6
CSCI124 Object Programming	Spring	6
ECTE182 Internet Technology 1	Spring	6
STAT131 Understanding Variation and Uncertainty	Autumn/Spring	6
Plus		
ECTE171 Introduction to Signals and Systems	Autumn	6
Or		
ECTE195 Design and Management	Autumn	6
Plus one Year 1 Elective subject		6
<b>Year 1 Electives</b>		
ACCY100 Accounting 1A	Autumn/Spring	6
ACCY102 Accounting 1B	Spring/Summer	6
ECON101 Macroeconomic Essentials for Business	Autumn/Spring	6
ECON111 Introductory Micro-Economics	Autumn/Spring	6
ECTE181 WWW Engineering	Autumn	6
LAW100 Law in Society	Autumn	6
MARK101 Marketing Principles	Autumn/Spring	6
MATH121 Discrete Mathematics	Autumn	6
MATH151 General Mathematics 1A	Autumn/Summer	6
MGMT110 Introduction to Management and Employment Relations	Autumn/Spring	6
<b>Year 2</b>		
CSCI213 Java Programming and the Internet	Autumn	6
ECTE282 Internet Systems	Autumn	6
IACT201 Information Technology and Citizens' Rights	Autumn	6
INFO202 Project	Annual	6
Plus four Year 2 Elective subjects		24
<b>Year 2 Electives</b>		
CSCI204 The C Family and Unix	Autumn/Spring	6
CSCI205 Development Methods and Tools	Spring	6
CSCI214 Distributed Systems	Spring	6
CSCI235 Databases	Spring	6
DESN211 Introduction to Web Design	Autumn	6
DESN212 Advanced Web Design	Spring	6
DESN290 Introduction to Graphic Design Fundamentals	Spring/ Summer	6
ECTE202 Circuits and Systems	Annual	6
ECTE212 Electronics and Communications	Spring	6
ECTE233 Digital Hardware 1	Autumn	6
ECTE281 Embedded Internet Systems	Spring	6
ECTE283 Internet Technology 2	Spring	6
IACT202 The Structure and Organisation of Telecommunications	Spring	6
ITCS201 Markup Languages	Autumn	6
Note that the availability of electives in Year 3 depends on the choices made in Year 2. To have maximum flexibility it is recommended that students choose CSCI204.		
<b>Year 3</b>		
IACT303 World Wide Networking	Spring	6
Plus seven Year 3 Elective subjects, or five Year 3 Elective subjects if students complete INFO303.		
Students with a WAM of 70+ at 200 level are strongly recommended to take:		
INFO303 Advanced Project	Annual	12
<b>Year 3 Electives</b>		
BUSS311 Advanced Database Management Systems	Autumn	6
COMM303 Development of Modern Business	Spring	6
COMM327 Business Innovation, Technology and Policy	Autumn/Spring	6
COMM351 Business Ethics and Governance	Spring	6
CSCI212 Interacting Systems	Autumn	6
CSCI311 Software Process Management	Autumn	6
CSCI315 Database Design and Implementation	Autumn	6
CSCI322 Systems Administration	Spring	6
CSCI324 Human Computer Interface	Spring	6
CSCI336 Computer Graphics	Autumn	6
CSCI361 Computer Security	Autumn	6
CSCI399 Server Technology	Autumn	6

## Course Information

CSCI407	Corba & Enterprise Java	Spring	6
CSCI408	Distributed Java	N/A in 2005	6
CSCI446	Multimedia Studies	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ECTE364	Telecommunications Networks 1	Autumn	6
ECTE392	Wireless Internet	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
IACT405	Information Technology and Innovation	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
IACT417	Information Management	Autumn	6
IACT418	Corporate Network Management	Autumn	6
IACT419	Online Information Services	Spring	6
IACT424	Corporate Network Design and Implementation	Spring	6
IACT430	Special Topics in Information & Communication Technology	Autumn	6
ITCS432	Web Design	Spring	6
ITCS450	Patterns for eBusiness	N/A in 2005	6
ITCS451	Web Services for Dynamic eBusiness	Spring	6
MARK343	International Marketing	Autumn	6
MGMT370	Project Management	N/A in 2005	6

### Internet Commerce (code IS03)

Students enrolling in this major may need to make a choice about 3rd year electives during the first year. If they wish to study 300 level Accounting or Finance subjects, then they must study both ACCY100 and ACCY102 in the first year and FIN221 and/or ACCY231 in the second year.

In the standard program (see below) this would be possible only for students who might be willing to study in summer session or undertake more than 4 subjects per session. Accordingly a modified program is also presented. This has the disadvantage of restricting some of the choices of CSCI subjects at 300 level.

#### Major Study

To satisfy the requirements for a major study in Internet Commerce, a student shall satisfactorily complete one of the following recommended programs:

#### *Standard Program*

Subjects	Session	Credit Points
<b>Year 1</b>		
CSCI102	Systems	Spring
CSCI103	Algorithms and Problem Solving	Autumn
CSCI114	Procedural Programming	Autumn
CSCI124	Object Programming	Spring
ECTE182	Internet Technology 1	Spring
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring
Plus		
ECTE171	Introduction to Signals and Systems	Autumn
Or		
ECTE195	Design and Management	Autumn
Plus one Year 1 Elective subject		6
<b>Year 1 Electives</b>		
ACCY100	Accounting 1A	Autumn/Spring
ACCY102	Accounting 1B	Spring/Summer
ECON101	Macroeconomic Essentials for Business	Autumn/Spring
ECON111	Introductory Micro-Economics	Autumn/Spring
ECTE181	WWW Engineering	Autumn
LAW100	Law in Society	Autumn
MARK101	Marketing Principles	Autumn/Spring
MATH121	Discrete Mathematics	Autumn
MATH151	General Mathematics 1A	Autumn/Summer
MGMT110	Introduction to Management and Employment Relations	Autumn/Spring
<b>Year 2</b>		
CSCI213	Java Programming and the Internet	Autumn
ECTE282	Internet Systems	Autumn
IACT201	Information Technology and Citizens' Rights	Autumn
INFO202	Project	Annual
Plus four Year 2 Elective subjects		24
<b>Year 2 Electives</b>		
ACCY231	Information Systems in Accounting	Spring
BUSS211	Requirements Determination and Systems Analysis	Autumn

BUSS212	Database Management Systems	Spring	6
BUSS213	Multimedia in Organisations	Spring	6
CSCI204	The C Family and Unix	Autumn/Spring	6
CSCI205	Development Methods and Tools	Spring	6
CSCI214	Distributed Systems	Spring	6
CSCI235	Databases	Spring	6
DESN211	Introduction to Web Design	Autumn	6
DESN212	Advanced Web Design	Spring	6
DESN290	Introduction to Graphic Design Fundamentals	Spring/Summer	6
ECTE281	Embedded Internet Systems	Spring	6
FIN221	Business Finance 1	Autumn/Spring/ Summer	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
ITCS201	Markup Languages	Autumn	6
LAW210	Contract Law	Spring	6
MGMT200	Management and Electronic Business	Autumn	6
<b>Year 3</b>			
IACT303	World Wide Networking	Spring	6
Plus at least one of:			
CSCI446	Multimedia Studies	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
Plus six Year 3 Elective subjects, or five Year 3 Elective subjects if students complete INFO303.			
Students with a WAM of 70+ at 200 level are strongly recommended to take:			
INFO303	Advanced Project	Annual	12
<b>Year 3 Electives</b>			
ACCY332	Advanced Information Systems in Accounting	Autumn	6
ACCY335	Advanced Information Systems in Accounting II	Spring	6
BUSS308	Computer Systems Management	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed Information Systems	Autumn	6
COMM303	Development of Modern Business	Spring	6
COMM327	Business Innovation, Technology and Policy	Autumn/Spring	6
COMM351	Business Ethics and Governance	Spring	6
CSCI311	Software Process Management	Autumn	6
CSCI315	Database Design and Implementation	Autumn	6
CSCI324	Human Computer Interface	Spring	6
CSCI336	Computer Graphics	Autumn	6
CSCI361	Computer Security	Autumn	6
CSCI399	Server Technology	Autumn	6
CSCI407	Corba & Enterprise Java	Spring	6
CSCI408	Distributed Java	N/A in 2005	6
CSCI446	Multimedia Studies	Autumn	6
ECON319	Electronic Commerce and the Economics of Information	Spring	6
ECTE392	Wireless Internet	Autumn	6
FIN353	Global Electronic Finance	N/A in 2005	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
IACT405	Information Technology and Innovation	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
IACT417	Information Management	Autumn	6
IACT418	Corporate Network Management	Autumn	6
IACT419	Online Information Services	Spring	6
IACT424	Corporate Network Design and Implementation	Spring	6
IACT430	Special Topics in Information & Communication Technology	N/A in 2005	6
ITCS432	Web Design	Spring	6
ITCS450	Patterns for eBusiness	N/A in 2005	6
ITCS451	Web Services for Dynamic eBusiness	Spring	6
LAW331	Intellectual Property Law	Autumn	6
MARK301	Internet Applications for Marketing	Spring	6
MARK343	International Marketing	Autumn	6
MGMT300	Innovation and Electronic Commerce	Spring	6
MGMT370	Project Management	N/A in 2005	6

**Modified Program**

The following modified program is designed to allow easy access to 300 level Accounting or Finance subjects.

Subjects	Session	Credit Points
<b>Year 1</b>		
ACCY100	Accounting 1A	Autumn/Spring 6

## Course Information

ACCY102	Accounting 1B	Spring/Summer	6
CSCI102	Systems	Spring	6
CSCI103	Algorithms and Problem Solving	Autumn/Spring	6
ECTE182	Internet Technology 1	Spring	6
STAT131	Understanding Variation and Uncertainty	Autumn/Spring	6
Plus			
ECTE171	Introduction to Signals and Systems	Autumn	6
Or			
ECTE195	Design and Management	Autumn	6
Plus one Year 1 Elective subject			6

### Year 1 Electives

ECON101	Macroeconomic Essentials for Business	Autumn/Spring	6
ECON111	Introductory Micro-Economics	Autumn/Spring	6
ECTE181	WWW Engineering	Autumn	6
LAW100	Law in Society	Autumn	6
MARK101	Marketing Principles	Autumn/Spring	6
MATH121	Discrete Mathematics	Autumn	6
MATH151	General Mathematics 1A	Autumn/Summer	6
MGMT110	Introduction to Management and Employment Relations	Autumn/Spring	6

### Year 2

CSCI114	Procedural Programming	Autumn	6
CSCI124	Object Programming	Spring	6
ECTE282	Internet Systems	Autumn	6
IACT201	Information Technology and Citizens' Rights	Autumn	6
IACT303	World Wide Networking	Spring	6
Plus three Year 2 Elective subjects			18

### Year 2 Electives

FIN221	Business Finance 1	Autumn/Spring/ Summer	6
ACCY231	Information Systems in Accounting	Spring	6
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS212	Database Management Systems	Spring	6
BUSS213	Multimedia in Organisations	Spring	6
DESN211	Introduction to Web Design	Autumn	6
DESN212	Advanced Web Design	Spring	6
DESN290	Introduction to Graphic Design Fundamentals	Spring/ Summer	6
ECTE281	Embedded Internet Systems	Spring	6
IACT202	The Structure and Organisation of Telecommunications	Spring	6
ITCS201	Markup Languages	Autumn	6
LAW210	Contract Law	Spring	6
MGMT200	Management and Electronic Business	Autumn	6

Note that students must choose one or both FIN221 and ACCY231 in order to study ACCY or FIN subjects at 300 level.

### Year 3

CSCI213	Java Programming and the Internet	Autumn	6
INFO202	Project	Annual	6
Plus at least one of:			
CSCI446	Multimedia Studies	Autumn	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
Plus five Year 3 Elective subjects, or three Year 3 Elective subjects if students complete INFO303.			
Students with a WAM of 70+ at 200 level are strongly recommended to take:			
INFO303	Advanced Project	Annual	12

### Year 3 Electives

ACCY332	Advanced Information Systems in Accounting	Autumn	6
ACCY335	Advanced Information Systems in Accounting II	Spring	6
FIN353	Global Electronic Finance	N/A in 2005	6
BUSS308	Computer Systems Management	Spring	6
BUSS311	Advanced Database Management Systems	Autumn	6
BUSS312	Distributed information Systems	Autumn	6
COMM303	Development of Modern Business	Spring	6
COMM327	Business Innovation, Technology and Policy	Autumn/Spring	6
COMM351	Business Ethics and Governance	Spring	6
CSCI204	The C Family and Unix	Autumn/ Spring	6
CSCI205	Development Methods and Tools	Spring	6
CSCI214	Distributed Systems	Spring	6
CSCI235	Databases	Spring	6
CSCI311	Software Process Management	Autumn	6
CSCI315	Database Design and Implementation	Autumn	6
CSCI324	Human Computer Interface	Spring	6
CSCI336	Computer Graphics	Autumn	6
CSCI361	Computer Security	Autumn	6



CSCI399	Server Technology	Autumn	6
CSCI407	Corba & Enterprise Java	Spring	6
CSCI408	Distributed Java	N/A in 2005	6
CSCI446	Multimedia Studies	Autumn	6
ECON319	Electronic Commerce and the Economics of Information	Spring	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
IACT405	Information Technology and Innovation	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
IACT417	Information Management	Autumn	6
IACT418	Corporate Network Management	Autumn	6
IACT419	Online Information Services	Spring	6
IACT424	Corporate Network Design and Implementation	Spring	6
IACT430	Special Topics in Information & Communication Technology	N/A in 2005	6
ITCS432	Web Design	Spring	6
ITCS450	Patterns for eBusiness	N/A in 2005	6
ITCS451	Web Services for Dynamic eBusiness	Spring	6
LAW331	Intellectual Property Law	Autumn	6
MARK301	Internet Applications for Marketing	Spring	6
MARK343	International Marketing	Autumn	6
MGMT300	Innovation and Electronic Commerce	Spring	6
MGMT370	Project Management	N/A in 2005	6

### Internet Science (code IS04)

#### Major Study

To satisfy the requirements for a major study in Internet Science, a student shall satisfactorily complete the following recommended program:

Subjects	Session	Credit Points
<b>Year 1</b>		
CSCI102	Systems	Spring 6
CSCI103	Algorithms and Problem Solving	Autumn 6
CSCI114	Procedural Programming	Autumn 6
CSCI124	Object Programming	Spring 6
ECTE182	Internet Technology 1	Spring 6
MATH187	Mathematics 1A Part 1	Autumn 6
MATH188	Mathematics 1A Part 2	Spring 6
Plus		
ECTE171	Introduction to Signals and Systems	Autumn 6
Or		
ECTE195	Design and Management	Autumn 6
<b>Year 2</b>		
CSCI213	Java Programming and the Internet	Autumn 6
ECTE282	Internet Systems	Autumn 6
IACT201	Information Technology and Citizens' Rights	Autumn 6
INFO202	Project	Annual 6
STAT231	Probability and Random Variables	Autumn 6
Plus three Year 2 Elective subjects		18
<b>Year 2 Electives</b>		
CSCI204	The C Family and Unix	Autumn/ Spring 6
CSCI205	Development Methods and Tools	Spring 6
CSCI214	Distributed Systems	Spring 6
CSCI235	Databases	Spring 6
DESN211	Introduction to Web Design	Autumn 6
DESN212	Advanced Web Design	Spring 6
DESN290	Introduction to Graphic Design Fundamentals	Spring/ Summer 6
ECTE281	Embedded Internet Systems	Spring 6
IACT202	The Structure and Organisation of Telecommunications	Spring 6
ITCS201	Markup Languages	Autumn 6
MATH121	Discrete Mathematics	Autumn 6
MATH201	Multivariate and Vector Calculus	Autumn 6
MATH204	Complex Variables and Group Theory	Spring 6
MATH222	Continuous and Finite Mathematics	Autumn 6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring 6
STAT232	Estimation and Hypothesis Testing	Spring 6
STAT252	Statistics for the Natural Sciences	Spring 6
Note: STAT131 is not to count with STAT252		

**Year 3**

IACT303	World Wide Networking	Spring	6
INFO413	Information Theory	Spring	6
Plus six Year 3 Elective subjects, or four Year 3 Elective subjects if students complete INFO303.			
Students with a WAM of 70+ at 200 level are strongly recommended to take:			
INFO303	Advanced Project	Annual	12

**Year 3 Electives**

CSCI311	Software Process Management	Autumn	6
CSCI315	Database Design and Implementation	Autumn	6
CSCI324	Human Computer Interface	Spring	6
CSCI336	Computer Graphics	Autumn	6
CSCI399	Server Technology	Autumn	6
CSCI407	Corba & Enterprise Java	Spring	6
CSCI408	Distributed Java	N/A in 2005	6
CSCI446	Multimedia Studies	Autumn	6
DESN311	Interactive Multimedia Design	Autumn	6
ECTE363	Communication Theory	Spring	6
IACT301	Information and Communication Security Issues	Spring	6
IACT302	Corporate Network Planning	Autumn	6
IACT304	Principles of eBusiness	Autumn	6
IACT305	eBusiness Technologies	Autumn	6
IACT406	Strategic eBusiness Solutions	Spring	6
INFO412	Mathematics for Cryptography	Autumn	6
ITCS432	Web Design	Spring	6
ITCS450	Patterns for eBusiness	N/A in 2005	6
ITCS451	Web Services for Dynamic eBusiness	Spring	6
MATH203	Linear Algebra	Autumn	6
MATH372	Special Topics in Mathematical Analysis 3	Autumn	6

**Professional Recognition**

The Bachelor of Internet Science and Technology is accredited by the Australian Computer Society as meeting requirements for membership at a "Professional level".

**Bachelor of Mathematics**

Testamur Title of Degree:	Bachelor of Mathematics
Abbreviation:	BMath
Home Faculty:	Informatics
Duration:	3 years (6 sessions) or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	762
UAC Code:	756511
CRICOS Code:	002936B

**Overview**

This degree is designed to give the graduate a solid foundation in all the skills needed to work as a professional mathematician or statistician. It is flexible enough to allow students to specialise in an area that is of particular interest, or to gain an introduction to a wide variety of topics. One third of the subjects taken may be from other disciplines, such as computer science, management, finance or science.

**Entry Requirements / Assumed Knowledge**

Approximate UAI: 75

Assumed knowledge: Any two units of English plus HSC Mathematics.

Recommended studies: HSC Mathematics Extension 1.

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

**Course Requirements**

The following requirements for the Bachelor of Mathematics degree are to be read in conjunction with University Course Rule 108.

To qualify for the award of the degree of Bachelor of Mathematics, candidates must satisfactorily complete at least 144 credit points from either or both the subjects prescribed for the Bachelor of Mathematics and the General Schedule, including:

- 1) MATH187 Mathematics 1A Part 1 and MATH188 Mathematics 1A Part 2
- 2) MATH111 Applied Mathematical Modelling 1 or MATH212 Applied Mathematical Modelling 2
- 3) MATH121 Discrete Mathematics or MATH222 Continuous and Finite Mathematics
- 4) STAT131 Understanding Variation and Uncertainty or STAT231 Probability and Random Variables
- 5) CSCI114 Procedural Programming
- 6) each of the subjects:
  - MATH201 Multivariate and Vector Calculus
  - MATH202 Differential Equations 2
  - MATH203 Linear Algebra
  - MATH204 Complex Variables and Group Theory
- 7) at least one of the subjects:
  - MATH212 Applied Mathematical Modelling 2
  - MATH222 Continuous and Finite Mathematics
  - STAT231 Probability and Random Variables (not additional to 2 or 3 or 4)
- 8) 300-level subjects from the Mathematics Schedule of subjects with a value of at least:
  - a) 36 credit points, or
  - b) 24 credit points, should a major study in Computer Science also be satisfactorily completed, or
  - c) 30 credit points, should any other major study also be satisfactorily completed
- 9) within requirements 1. to 8., a major study in either Mathematics or Applied Statistics, and
- 10) no more than 60 credit points at the 100-level.

### Areas of Major Study

Within the Bachelor of Mathematics, a major study in either Mathematics or Applied Statistics can be combined with a major study in the following disciplines:

Computer Science  
Economics  
Econometrics  
Accountancy  
Business Information Systems  
Management  
Marketing  
Finance  
Biomedical Sciences

Candidates wishing to major in Mathematics and/or Applied Statistics and a discipline not listed above are advised to first consult with the Sub-Dean of the Faculty of Informatics for verification of their intended program.

Candidates may also study a major in the following areas of science, but this will necessitate completing more than the standard 144 credit points in the degree:

Biological Sciences  
Chemistry  
Geology  
Human Geography  
Physical Geography  
Geoscience  
Physics

### Mathematics Schedule of Subjects

The following subjects are approved for inclusion in the Bachelor of Mathematics degree.

Subjects	Session	Credit Points
<b>100-Level</b>		
MATH187 Mathematics 1A Part 1	Autumn	6
MATH188 Mathematics 1A Part 2	Spring	6

## Course Information

MATH111	Applied Mathematical Modelling 1	Spring	6
MATH121	Discrete Mathematics	Autumn	6
CSCI114	Procedural Programming	Autumn/ Spring	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
<b>200-Level</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH202	Differential Equations 2	Spring	6
MATH203	Linear Algebra	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
STAT232	Estimation and Hypothesis Testing	Spring	6
<b>300-Level</b>			
MATH302	Differential Equations 3	Autumn	6
MATH305	Partial Differential Equations	Spring	6
MATH312	Applied Mathematical Modelling 3	Autumn	6
MATH313	Industrial Mathematical Modelling	Spring	6
MATH316	Applied Dynamics	N/A in 2005	6
MATH317	Financial Calculus and Logistics	Autumn	6
MATH321	Numerical Analysis	Spring	6
MATH322	Algebra	N/A in 2005	6
MATH323	Topology and Chaos	Spring	6
MATH325	Wavelets	Autumn	6
MATH371	Special Topics in Industrial and Applied Mathematics 3	Autumn/ Spring	6
MATH372	Special Topics in Mathematical Analysis 3	Autumn	6
STAT304	Operations Research and Applied Probability	Spring	6
STAT332	Multiple Regression and Time Series	Spring	6
STAT333	Statistical Inference and Multivariate Analysis	Autumn	6
STAT335	Sample Surveys and Experimental Design	Autumn	6
STAT373	Special Topics in Probability and Statistics 3	Autumn/ Spring	6
<b>400-Level</b>			
INFO411	Data Mining and Knowledge Discovery	Spring	6
INFO412	Mathematics for Cryptography	Autumn	6
INFO413	Information Theory	Spring	6

## Honours

A fourth year of study, Honours, is available to students who have achieved a Credit average or better in the BMath. It is a more challenging program that includes a research project. Students who wish to enter the Honours program should obtain the approval of the Honours Coordinator at the end of their third year.

## Major Study Areas

### Mathematics (code MATH)

#### Major Study

To satisfy the requirements for a major study in Mathematics, a student shall satisfactorily complete (at a grade of Pass or better) any MATH or STAT subjects listed in the Mathematics Schedule, to a total of at least 48 credit points; of which at least 18 credit points must be at 200 level and at least 24 credit points must be at 300 level.

The following suggested programs are intended as a guideline only in selecting suitable supplementary subjects to make a reasonable pattern for Mathematics degrees in the various fields of Mathematics.

All candidates are expected to consult with the School and Faculty advisers before committing themselves completely to any particular pattern, whether outlined below or not.

#### Double Major

A major in Mathematics can be combined with Applied Statistics, Computer Science, Economics, Econometrics, Accountancy, Business Information Systems, Management, Marketing, Finance or Biomedical Sciences. Second major requirements are listed below.

### Suggested Program in Industrial and Applied Mathematics (including Numerical Analysis)

Suggested Program of Work for the first and second years of the BSc Mathematics (with Applied Mathematics) (including Numerical Analysis)			
Subjects		Session	Credit Points
<b>Year 1</b>			
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
MATH111	Applied Mathematical Modelling 1	Spring	6
MATH121	Discrete Mathematics	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
CSCI114	Procedural Programming	Autumn/ Spring	6
Plus			

PHYS141	Fundamentals of Physics A	Autumn	6
and PHYS142	Fundamentals of Physics B	Spring	6
or Subjects chosen from the Mathematics or General Schedules			12
<b>Year 2</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH202	Differential Equations	Spring	6
MATH203	Linear Algebra	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
Plus Subjects chosen from the Mathematics or General Schedules			18
<b>Year 3</b>			
MATH302	Differential Equations 3	Autumn	6
MATH305	Partial Differential Equations	Spring	6
Plus at least two of the following subjects:			
MATH312	Applied Mathematical Modelling 3	Autumn	6
MATH313	Industrial Mathematical Modelling	Spring	6
MATH316	Applied Dynamics	N/A in 2005	6
MATH317	Financial Calculus and Logistics	Autumn	6
MATH321	Numerical Analysis	Spring	6
Plus Subjects chosen from the Mathematics Schedule			12
Plus Subjects chosen from the Mathematics or General Schedules			12

### Suggested Program in Mathematical Analysis

Subjects	Session	Credit Points	
<b>Year 1</b>			
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
MATH111	Applied Mathematical Modelling 1	Spring	6
MATH121	Discrete Mathematics	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
CSCI114	Procedural Programming	Autumn/ Spring	6
Plus			
Subjects chosen from the Mathematics or General Schedules		12	
<b>Year 2</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH202	Differential Equations 2	Spring	6
MATH203	Linear Algebra	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
Plus			
Subjects chosen from the Mathematics or General Schedules		18	
<b>Year 3</b>			
MATH302	Differential Equations 3	Autumn	6
Plus at least three of the following subjects:			
MATH321	Numerical Analysis	Spring	6
MATH322	Algebra	N/A in 2005	6
MATH323	Topology and Chaos	Spring	6
Plus			
Subjects chosen from the Mathematics Schedule		12	
Plus			
Subjects chosen from the Mathematics or General Schedules		12	

### Suggested Program for Mathematics Teaching

The minimum requirement for employment as a Mathematics teacher is 60 credit points of Mathematics, including a major study at 300-level, however candidates are encouraged to complete a full Mathematics degree.

Subjects		Session	Credit Points
Year 1			
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
MATH111	Applied Mathematical Modelling 1	Spring	6
MATH121	Discrete Mathematics	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
CSCI114	Procedural Programming	Autumn/ Spring	6
Plus Subjects chosen from the Mathematics or General Schedules			12

## Course Information

### Year 2

MATH201	Multivariate and Vector Calculus	Autumn	6
MATH202	Differential Equations 2	Spring	6
MATH203	Linear Algebra	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
Plus			
200-level Mathematics subjects chosen from the Mathematics Schedule			12
Plus			
Subjects chosen from the Mathematics or General Schedules			12

### Year 3

300-level subjects chosen from the Mathematics Schedule			36
Plus			
Subjects chosen from the Mathematics or General Schedules			12

## Applied Statistics (code STAT)

### Major Study

To satisfy the requirements for a major study in Applied Statistics, a student shall satisfactorily complete (at a grade of Pass or better) any MATH or STAT subjects listed above, to a total of at least 48 credit points; of which at least 12 credit points must be at 200 level and must include STAT231 and STAT232; and at least 24 credit points must be of 300 level STAT subjects.

The following suggested program is intended as a guideline only in selecting suitable supplementary subjects to make a reasonable pattern for a major in Applied Statistics.

All candidates are expected to consult with the School and Faculty advisers before committing themselves completely to any particular pattern, whether outlined below or not.

### Double Major

A major in Applied Statistics can be combined with Mathematics, Computer Science, Economics, Econometrics, Accountancy, Business Information Systems, Management, Marketing, Finance or Biomedical Sciences. Second major requirements are listed below.

### Suggested Program in Applied Statistics

Subjects		Session	Credit Points
<b>Year 1</b>			
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
MATH111	Applied Mathematical Modelling 1	Spring	6
MATH121	Discrete Mathematics	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
CSCI114	Procedural Programming	Autumn/ Spring	6
Plus			
Subjects chosen from the Mathematics or General Schedules			12
<b>Year 2</b>			
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH202	Differential Equations 2	Spring	6
MATH203	Linear Algebra	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
STAT231	Probability and Random Variables	Autumn	6
STAT232	Estimation and Hypothesis Testing	Spring	6
Plus			
Subjects chosen from the Mathematics or General Schedules			12
<b>Year 3</b>			
STAT304	Operations Research and Applied Probability	Spring	6
STAT332	Multiple Regression and Time Series	Spring	6
STAT333	Statistical Inference and Multivariate Analysis	Autumn	6
STAT335	Sample Surveys and Experimental Design	Autumn	6
Plus			
Subjects chosen from the Mathematics Schedule			12
Plus			
Subjects chosen from the Mathematics or General Schedules			12

## Mathematics and Computer Science (code MA01)

## Applied Statistics and Computer Science (code ST01)

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of the following approved 48 credit point major study in Computer Science:

Subjects	Session	Credit Points
----------	---------	---------------

CSCI103	Algorithms & Problem Solving	Autumn	6
CSCI114	Procedural Programming	Autumn	6
CSCI124	Object Programming	Spring	6
CSCI204	The C Family and Unix	Autumn/ Spring	6
Plus	300-level CSCI subjects		24

To ensure a wider range of options at 300-level, students are advised to undertake at least one additional CSCI subject at 200-level.

### **Mathematics and Economics (code MA03)**

#### **Applied Statistics and Economics (code ST03)**

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of a major study in Economics, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Economics major. All students must satisfy subject prerequisites except where waivers have been granted.

Alternatively candidates may wish to consider enrolling in the Bachelor of Mathematics and Economics or the Bachelor of Mathematics and Finance.

### **Mathematics and Econometrics (code MA04)**

#### **Applied Statistics and Econometrics (code ST04)**

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of the following approved 48 credit point major study in Econometrics.

Subjects		Session	Credit Points
ECON221	Econometrics	Autumn	6
ECON231	Business Statistics and Forecasting	Autumn	6
ECON230	Quantitative Analysis for Decision Making	Spring	6
ECON322	Mathematical Economics	Spring	6
ECON327	Advanced Econometrics	Spring	6
Plus			
200/300-level Economics subject			6
Plus			
Two 300-level Economics subjects			12

### **Mathematics and Accountancy (code MA05)**

#### **Applied Statistics and Accountancy (code ST05)**

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of a major study in Accountancy, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Accountancy major. All students must satisfy subject prerequisites except where waivers have been granted.

### **Mathematics and Business Information Systems (code MA06)**

#### **Applied Statistics and Business Information Systems (code ST06)**

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of a major study in Business Information Systems, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Business Information Systems major. All students must satisfy subject prerequisites except where waivers have been granted.

### **Mathematics and Management (code MA12)**

#### **Applied Statistics and Management (code ST12)**

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of a major study in Management, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Management major. All students must satisfy subject prerequisites except where waivers have been granted.

**Mathematics and Marketing (code MA13)**  
**Applied Statistics and Marketing (code ST13)**

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of a major study in Marketing, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Marketing major. All students must satisfy subject prerequisites except where waivers have been granted.

**Mathematics and Finance (code MA14)**  
**Applied Statistics and Finance (code ST14)**

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of a major study in Finance, as outlined in the Bachelor of Commerce entry. Note, however, that students are not required to complete the core subjects as listed in the Bachelor of Commerce except where those subjects are prerequisites to subjects in the Finance major. All students must satisfy subject prerequisites except where waivers have been granted.

Alternatively candidates may wish to consider enrolling in the Bachelor of Mathematics and Economics or the Bachelor of Mathematics and Finance.

**Mathematics and Biomedical Sciences (code MA15)**  
**Applied Statistics and Biomedical Sciences (code ST15)**

This double major requires satisfactory completion of a major study in Mathematics or Applied Statistics and satisfactory completion of the following approved 54-56 credit point major study in Biomedical Science.

Subjects	Session	Credit Points
BMS101 Systemic Anatomy	Autumn	6
BMS112 Human Physiology I: Principles and Systems	Spring	6
BMS202 Human Physiology II: Control Mechanisms	Autumn	6
BMS242 Exercise Physiology	Spring	6
BMS342 Advanced Exercise Physiology	Autumn	8
BMS344 Cardiorespiratory Physiology	Autumn	8
and either		
BMS211 Foundations of Biomechanics	Autumn	6
or		
BMS352 Fundamentals of Neuroscience	Autumn	8
and either		
BMS341 Clinical Biomechanics	Spring	8
or		
BMS346 Motor Control and Dysfunction	Spring	8

**Mathematics/Statistics and Various Sciences**

Students should refer to an Academic Adviser in the school of Maths and Applied Statistics for assistance with choice of subjects.

code MA07	Mathematics and Biology
code MA08	Mathematics and Chemistry
code MA02	Mathematics and Geography
code MA09	Mathematics and Geology
code MA10	Mathematics and Physics
code MA11	Mathematics and Ecology and Biogeography
code ST07	Applied Statistics and Biology
code ST08	Applied Statistics and Chemistry
code ST02	Applied Statistics and Geography
code ST09	Applied Statistics and Geology
code ST10	Applied Statistics and Physics
code ST11	Applied Statistics and Ecology and Biogeography

**Bachelor of Mathematics (Advanced)**



Testamur Title of Degree:	Bachelor of Mathematics (Advanced)
Abbreviation:	BMATHAdv
Home Faculty:	Informatics
Duration:	3 years (6 sessions) or part-time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	762A
UAC Code:	756512
CRICOS Code:	036040F

## Overview

This challenging Bachelor degree is available to students who have superior mathematical knowledge on entry, allowing the amount of first year mathematics subjects to be significantly reduced. This enables students to take enrichment projects, which provide opportunities to build links with industry and to understand the interaction between mathematics and society. Students will also have close interaction with active academic researchers.

## Entry Requirements / Assumed Knowledge

Approximate UAI: 95

Assumed Knowledge: HSC Mathematics Extension 2

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

## Course Requirements

To qualify for the award of the degree of Bachelor of Mathematics (Advanced), candidates must satisfactorily complete at least 144 credit points from either or both the Mathematics and the General Schedule including:

- (i) MATH110
- (ii) CSCI114
- (iii) each of the subjects MATH201, MATH202, MATH203 and MATH204
- (iv) each of the subjects MATH212, MATH222 and STAT231
- (v) the subject MATH235 or STAT235
- (vi) the subject MATH345 or STAT345
- (vii) 300 level subjects from the Mathematics Schedule with a value of at least:
  - 36 credit points, or
  - 24 credit points, if there is a major study in Computer Science
  - 30 credit points, if there is any other major study
- (viii) a major study in Mathematics or Statistics (apart from MATH345 and STAT345)
- (ix) no more than 60 credit points at 100 level.
- (x) continuation in the Bachelor of Mathematics (Advanced) (code 762A) will normally be dependent upon achieving an average of at least 75% each year. Students who do not meet the required average will be transferred to the Bachelor of Mathematics degree (code 762).

Note that a student could do some 300 level subjects in second year.

## Course Program

### Recommended Program in Mathematics, Statistics plus another discipline

The following is a possible enrolment program for someone doing a "major" in a discipline other than Mathematics, Statistics or Computer Science.

[NOTE that a program like this does not mean that the formal requirements for a major in the other discipline will be satisfied. Candidates are advised to check the requirements for a major in other disciplines listed under the Bachelor of Mathematics degree regulations.] Considerable variation is possible.

Subjects		Session	Credit Points
<b>Year 1</b>			
MATH110	Advanced Mathematics 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6

# Course Information

MATH203	Linear Algebra	Autumn	6
MATH202	Differential Equations 2	Spring	6
CSCI114	Procedural Programming	Autumn/ Spring	6
Plus	Other subjects		18

## Year 2

MATH235/ STAT235	Project A	Autumn/ Spring	6
STAT231	Probability and Random Variables	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
Plus	Other subjects		18

## Year 3

MATH345/ STAT345	Project B	Autumn/ Spring	6
Plus	MATH/STAT 300 level subjects		24
Plus	Other Major subjects		18

# Recommended Program in Industrial and Applied Mathematics

Subjects		Session	Credit Points
<b>Year 1</b>			
MATH110	Advanced Mathematics 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH203	Linear Algebra	Autumn	6
MATH202	Differential Equations 2	Spring	6
CSCI114	Procedural Programming	Autumn/ Spring	6
Plus	Other subjects		18
<b>Year 2</b>			
MATH235	Mathematics Project A	Autumn/ Spring	6
STAT231	Probability and Random Variables	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
Plus	Other subjects		18
<b>Year 3</b>			
MATH302	Differential Equations 3	Autumn	6
MATH305	Partial Differential Equations	Spring	6
MATH345	Mathematics Project B	Autumn/ Spring	6
Plus at least two subjects chosen from:			
MATH312	Applied Mathematical Modelling 3	Autumn	6
MATH313	Industrial Mathematical Modelling	Spring	6
MATH317	Financial Calculus and Logistics	Autumn	6
MATH321	Numerical Analysis	Spring	6
Plus one 300-level subject chosen from the Mathematics Schedule			
Plus	Other subjects		12

# Recommended Program in Mathematical Analysis

Subjects		Session	Credit Points
<b>Year 1</b>			
MATH110	Advanced Mathematics 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH203	Linear Algebra	Autumn	6
MATH202	Differential Equations 2	Spring	6
CSCI114	Procedural Programming	Autumn/ Spring	6
Plus	Other subjects		18
<b>Year 2</b>			
STAT231	Probability and Random Variables	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
MATH235	Mathematics Project A	Autumn/ Spring	6
Plus	Other subjects		18
<b>Year 3</b>			
MATH302	Differential Equations 3	Autumn	6
MATH345	Mathematics Project B	Autumn/ Spring	6
MATH321	Numerical Analysis	Spring	6
MATH322	Algebra	N/A in 2005	6
MATH323	Topology and Chaos	Spring	6

Plus one 300-level subject chosen from the Mathematics Schedule	6
Plus Other subjects	12

### Recommended Program in Applied Statistics

Subjects		Session	Credit Points
<b>Year 1</b>			
MATH110	Advanced Mathematics 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH203	Linear Algebra	Autumn	6
MATH202	Differential Equations 2	Spring	6
CSCI114	Procedural Programming	Autumn/ Spring	6
Plus	Other subjects		18
<b>Year 2</b>			
STAT231	Probability and Random Variables	Autumn	6
STAT232	Estimation and Hypothesis Testing	Spring	6
STAT235	Statistics Project A	Autumn/ Spring	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
Plus	Other subjects		12
<b>Year 3</b>			
STAT304	Operations Research and Applied Probability	Spring	6
STAT332	Multiple Regression and Time Series	Spring	6
STAT333	Statistical Inference and Multivariate Analysis	Autumn	6
STAT335	Sample Surveys and Experimental Design	Autumn	6
STAT345	Statistics Project B	Autumn/ Spring	6
Plus one 300-level subject chosen from the Mathematics Schedule			6
Plus	Other subjects		12

### Honours

A fourth year of study, Honours, is available to students who have achieved a Distinction average or better in the BMath(Adv). It is a challenging program that includes a research project.

Students who wish to enter the Honours program should obtain the approval of the Honours Coordinator at the end of their third year.

## Bachelor of Mathematics and Economics

Testamur Title of Degree:	Bachelor of Mathematics and Economics
Abbreviation:	BMathEcon
Home Faculty:	Informatics
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	767A
UAC Code:	756502
CRICOS Code:	017733A

### Overview

The Bachelor of Mathematics and Economics is an elite course that provides high-level training in both disciplines, and equips graduates for careers in a wide variety of fields. It is also a significant advantage for graduates who wish to pursue higher degrees or research in economics to have a strong background in mathematics.

## Entry Requirements / Assumed Knowledge

Approximate UAI: 82

Assumed knowledge: Any two units of English plus HSC Mathematics

Recommended study: HSC Mathematics Extension 1

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

## Course Requirements

To qualify for the award of the degree of Bachelor of Mathematics and Economics a candidate shall satisfactorily complete at least 192 credit points of prescribed subjects, together with the requirements prescribed for this program.

The following program of study is recommended to satisfy the requirements in minimum time. The subjects listed are compulsory.

## Course Program

Subjects	Session	Credit Points
<b>Year 1</b>		
ACCY100	Accounting 1A	Autumn/Spring
ECON101	Macroeconomic Essentials for Business	Autumn/Spring
MATH187	Mathematics 1A Part 1	Autumn
STAT131	Understanding Variation and Uncertainty	Autumn/Spring
ECON111	Introductory Microeconomics	Autumn/Spring
MATH111*	Applied Mathematical Modelling 1	Spring
MATH188	Mathematics 1A Part 2	Spring
Plus either		6
BUSS111	Business Programming I	Spring/Summer
or		6
CSCI114	Procedural Programming	Autumn/Spring
* MATH111 may be replaced with 6 credit points of electives and completed in a subsequent year instead.		
<b>Year 2</b>		
ECON205	Macroeconomic Theory and Policy	Autumn/Spring
ECON215	Microeconomic Theory and Policy	Autumn/Spring
MATH201	Multivariate and Vector Calculus	Autumn
MATH202	Differential Equations 2	Spring
MATH203	Linear Algebra	Autumn
Plus		6
200-level MATH/STAT subjects from List of Electives		12
Plus		6
ACCY/ECON subject from List of Electives		6
Note: Students interested in Statistics are recommended to take STAT231, STAT232 and STAT332.		
<b>Year 3</b>		
ECON221	Econometrics	Autumn
ECON322	Mathematical Economics	Spring
MATH302	Differential Equations 3	Autumn
MATH317	Financial Calculus and Logistics	Autumn
Plus either		6
300 level ECON subject from List of Electives		6
or		6
STAT232	Estimation & Hypothesis Testing	Spring
Plus		6
300-level MATH/STAT subject from List of Electives		6
Plus		6
ACCY/BUSS/ECON subject from List of Electives		6
Plus		6
Any 200/300-level subject from List of Electives		6
<b>Year 4 (Non Honours)</b>		
ECON327	Advanced Econometrics	Spring
MGMT308	Introduction to Management for Professionals A	Autumn
Plus either		6
300-level ECON subjects from List of Electives		12
or		6
300-level ECON subject from List of Electives		6
and		6
STAT232	Estimation & Hypothesis Testing	Spring
Plus		6
300/400-level INFO/MATH/STAT subjects from List of Electives		24
<b>Year 4 (Honours)</b>		
Entry to this program is restricted to candidates who satisfy the pre-requisite to INFO402		
ECON327	Advanced Econometrics	Spring
MATH471	Honours Topics in Mathematics A (see Note 1)	Autumn/Spring
MATH472	Honours Topics in Mathematics B (see Note 1)	Autumn/Spring

INFO402	Mathematics and Economics Honours Project (see Note 2)	Annual	12
MGMT308	Introduction to Management for Professionals A	Autumn	6
Plus			
300 - level ECON	subject from the List of Electives		6
Plus			
300/400-level INFO/MATH/ECON/STAT	subject from the List of Electives.		6

Note 1: Enrolment in MATH471 or MATH472 is restricted to those candidates who have a WAM greater than or equal to 67.5 on satisfactory completion of 144 credit points of the course, or permission of the Head of the School of Mathematics and Applied Statistics.

Note 2: Enrolment in INFO402 is restricted to those candidates who have a WAM greater than or equal to 67.5 on satisfactory completion of 144 credit points of the course, or permission of Course Coordinator.

#### List of Electives

ACCY102	Accounting 1B	Spring/Summer	6
FIN241	International Financial Management	Autumn	6
BUSS110	Introduction to Business Information Systems	Autumn/Spring/ Summer	6
BUSS201	User- Centred Business Programming	Autumn	6
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
ECON301	Monetary Economics	Autumn	6
ECON305	Economic Policy	Spring	6
ECON309	Environmental Economics	Spring	6
ECON310	Cost Benefit Analysis	Spring	6
ECON317	Economics of Health Care	Autumn	8
ECON322	Mathematical Economics	Spring	6
ECON331	Financial Economics	Spring	6
INFO411	Data Mining and Knowledge Discovery	Spring	6
INFO412	Mathematics for Cryptography	Autumn	6
MATH204	Complex Variable and Group Theory	Spring	6
MATH212	Applied Mathematical Modelling 2	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
MATH305	Partial Differential Equations	Spring	6
MATH321	Numerical Analysis	Spring	6
MATH322	Algebra	N/A in 2005	6
MATH323	Topology and Chaos	Spring	6
MATH371	Special Topics in Industrial and Applied Mathematics 3	Autumn/Spring	6
MATH372	Special Topics in Mathematical Analysis 3	Autumn	6
MATH473	Honours Topics in Mathematics C	N/A in 2005	6
MATH474	Honours Topics in Mathematics D	N/A in 2005	6
STAT231	Probability and Random Variables	Autumn	6
STAT232	Estimation and Hypothesis Testing	Spring	6
STAT304	Operation Research and Applied Probability	Spring	6
STAT332	Multiple Regression and Time Series	Spring	6
STAT333	Statistical Inference and Multivariate Analysis	Autumn	6
STAT335	Sample Surveys and Experimental Design	Autumn	6
STAT373	Special Topics in Probability and Statistics 3	Autumn/Spring	6
STAT471	Honours Topics in Statistics A	Autumn/Spring	6
STAT472	Honours Topics in Statistics B	Autumn/ Spring	6

#### Honours

To qualify for an award of Honours, students must satisfactorily complete the requirements listed in Year 4 (Honours) of the Course Program above. The classes of Honours awarded are defined in the Course Rules.

### Bachelor of Mathematics and Finance

Testamur Title of	Bachelor of Mathematics and Finance
Degree:	
Abbreviation:	BMATHFin
Home Faculty:	Informatics
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	767
UAC Code:	756503
CRICOS Code:	016107B

#### Overview

The Bachelor of Mathematics and Finance is an elite degree that provides graduates with a firm foundation in both mathematics and finance.

The degree covers the basics of corporate finance, financial institutions and investments, and allows students to specialise through the choice of elective subjects.

### Entry Requirements / Assumed Knowledge

Approximate UAI: 82

Assumed Knowledge: Any two units of English plus HSC Mathematics

Recommended Studies: HSC Mathematics Extension 1

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

### Course Requirements

To qualify for the award of the degree of Bachelor of Mathematics and Finance a candidate shall satisfactorily complete at least 192 credit points of prescribed subjects, together with the requirements prescribed for the program.

Of the 192 credit points:

- i) the subjects listed in the Recommended Program are compulsory unless explicitly stated otherwise;
- ii) at least 168 credit points shall be for MATH, STAT, ACCY, ECON, FIN and MGMT subjects;
- iii) no more than 66 credit points shall be for 100-level subjects;
- iv) for the non-Honours strand, at least 60 credit points shall be for 300- and/or 400-level subjects; including at least 24 credit points of MATH/STAT subjects and at least 24 credit points of ACCY/FIN subjects and
- v) for the Honours strand, at least 72 credit points shall be for 300- and/or 400-level subjects, including at least 24 credit points of MATH/STAT subjects and at least 24 credit points of ACCY/FIN subjects. At least 36 of these 72 credit points shall be for 400-level subjects including at least one 6 credit point MATH or STAT subject.

The following program of study is recommended to satisfy the requirements in minimum time.

### Course Program

Subjects	Session	Credit Points
<b>Year 1</b>		
ACCY100	Accounting 1A	Autumn/ Spring
ACCY102	Accounting 1B	Spring/ Summer
MATH187	Mathematics 1A Part 1	Autumn
MATH188	Mathematics 1A Part 2	Spring
MATH111	Applied Mathematical Modelling 1	Spring
STAT131#	Understanding Variation and Uncertainty	Autumn/ Spring
Plus either		
BUSS111	Business Programming I	Spring/ Summer
or		
CSCI114	Procedural Programming	Autumn/ Spring
Plus either		
ECON101	Macroeconomic Essentials for Business	Autumn/ Spring
or		
ECON111 *	Introductory Microeconomics	Autumn/ Spring
# Not compulsory, but highly recommended. Students may select an alternative subject from the List of Electives or enrol in a compulsory subject from a later year of the program		
* The subject (ECON101 or ECON111) not completed in Year 1 must be completed in Year 2.		
<b>Year 2</b>		
FIN221	Business Finance I	Autumn/Spring/ Summer
ECON111	Introductory Microeconomics	Autumn/Spring
MATH201	Multivariate and Vector Calculus	Autumn
MATH202	Differential Equations 2	Spring
FIN223	Investments I	Spring
STAT231	Probability and Random Variables	Autumn
STAT232	Estimation and Hypothesis Testing	Spring
Plus		
ECON101 or ECON111 (subject not completed in Year 1)		6
Plus		
Subject chosen from List of Electives		6
<b>Year 3</b>		
FIN322	Business Finance II	Spring
FIN323	Investments II	Autumn
ECON331	Financial Economics	Spring
MATH203	Linear Algebra	Autumn
MATH317	Financial Calculus and Logistics	Autumn
STAT332	Multiple Regression and Time Series	Spring
Plus		
<b>368</b>		

Subjects chosen from List of Electives 12

#### Year 4 (Non Honours)

Subjects chosen from List of Electives 48

#### Year 4 (Honours)

Entry to this program is restricted to candidates who satisfy the prerequisite to INFO401

ACCY407 Empirical Research Methods Autumn 6

INFO401 Mathematics and Finance Honours Project (see Note 4) Spring/ Annual 12

Plus

Subjects chosen from List of Electives 30

Note 4: Enrolment in INFO401 is restricted to those candidates who have a WAM greater than or equal to 67.5 on satisfactory completion of 144 credit points of the course.

#### List of Electives

ACCY201	Financial Accounting IIB	Spring	6
ACCY200	Financial Accounting IIA	Autumn	6
ACCY407	Empirical Research Methods	Autumn	6
BUSS110	Introduction to Business Information Systems	Autumn/ Spring/ Summer	6
BUSS211	Requirements Determination and Systems Analysis	Autumn	6
BUSS212	Database Management Systems	Spring	6
CSCI102	Systems	Spring	6
CSCI103	Algorithms and Problem Solving	Autumn/ Spring	6
CSCI124	Object Programming	Autumn/ Spring	6
CSCI204	The C Family and Unix	Autumn/ Spring	6
CSCI235	Databases	Spring	6
ECON215	Microeconomic Theory and Policy	Autumn/ Spring	6
ECON216	International Trade Theory and Policy	Spring	6
ECON301	Monetary Economics	Autumn	6
ECON305	Economic Policy	Spring	6
ECON307	International Monetary Economics	Spring	6
FIN226	Financial Institutions	Spring	6
FIN320	Risk and Insurance	Spring	6
FIN324	Financial Statement Analysis	Autumn	6
FIN325	Banking Practice	Autumn	6
FIN351	International Business Finance	Spring	6
FIN359	Selected Issues in Finance	N/A in 2005	6
FIN422	Investment Analysis	Autumn	6
FIN423	Investment Management	Spring	6
FIN424	Corporate Financial Information Analysis	Autumn	6
FIN425	Banking Theory and Practice	Autumn	6
FIN426	Studies in Business Finance	Autumn	6
FIN487	Special Topic in Finance	N/A in 2005	6
IACT201	Information Technology and Citizens' Rights	Autumn	6
INFO411	Data Mining and Knowledge Discovery	Spring	6
INFO412	Mathematics for Cryptography	Autumn	6
LAW100	Law in Society	Autumn	6
LAW210	Contract Law	Spring	6
MATH121	Discrete Mathematics	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
MATH302	Differential Equations 3	Autumn	6
MATH305	Partial Differential Equations	Spring	6
MATH321	Numerical Analysis	Spring	6
MATH322	Algebra	N/A in 2005	6
MATH323	Topology and Chaos	Spring	6
MATH371	Special Topics in Industrial and Applied Mathematics 3	Autumn/ Spring	6
MATH372	Special Topics in Mathematical Analysis 3	Autumn	6
MATH471	Honours Topics in Mathematics A	Autumn/ Spring	6
MATH472	Honours Topics in Mathematics B	Autumn/ Spring	6
MGMT308	Introduction to Management for Professionals A	Autumn	6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring	6
STAT304	Operations Research and Applied Probability	Spring	6
STAT333	Statistical Inference and Multivariate Analysis	Autumn	6
STAT335	Sample Surveys and Experimental Design	Autumn	6
STAT373	Special Topics in Probability and Statistics 3	Autumn/ Spring	6
STAT471	Honours Topics in Statistics A	Autumn/ Spring	6
STAT472	Honours Topics in Statistics B	Autumn/ Spring	6

#### Honours

To qualify for an award of Honours, students must satisfactorily complete the requirements listed in Year 4 (Honours) of the Course Program above. The classes of Honours awarded are defined in the Course Rules.

## Bachelor of Computer Science - Bachelor of Science

Testamur Title of Degree:	Bachelor of Computer Science (name of major)
Abbreviation:	BCompSc/BSc
Home Faculty:	Informatics
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	768
UAC Code:	751402
CRICOS Code:	017737G

### Overview

Please refer to the entries for the Bachelor of Computer Science and Bachelor of Science (in Faculties of Science and Engineering).

### Entry Requirements / Assumed Knowledge

Please refer to the entry requirements/assumed knowledge for the Bachelor of Computer Science and Bachelor of Science (in Faculties of Science and Engineering).

### Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>

### Course Requirements

To qualify for the award of the double degree of Bachelor of Computer Science and Bachelor of Science, candidates must satisfactorily complete the subjects and credit points as prescribed in the following Program, and in so doing, satisfy the requirements of Course Rules 107 and 109 for the Bachelor of Computer Science and the Bachelor of Science, respectively.

#### Minimum Performance Requirement

Candidates must maintain a weighted average mark (WAM) of at least 65 at the end of each year, otherwise they must show cause as to why they should be permitted to remain registered for the two courses.

Candidates who, at the end of any year of registration, have satisfied the minimum rate of progress requirements under General Course Rule 8.8, but who do not have a WAM of at least 65 and who have not given adequate reason as to why they should be permitted to continue with registration for the joint course, will be required to transfer into either a Bachelor of Computer Science or a Bachelor of Science.

### Course Program

Subjects	Session	Credit Points
<b>Year 1</b>		
CSCI103 Algorithms and Problem Solving	Autumn	6
CSCI114 Procedural Programming	Autumn	6
CSCI124 Object Programming	Spring	6
MATH121 Discrete Mathematics	Autumn	6
Plus 24 credit points from 100-level BIOL and/or CHEM and/or EESC and/or PHYS subjects selected from the Science Schedule		
<b>Year 2</b>		
CSCI102 Systems	Spring	6
CSCI203 Algorithms and Data Structures	Autumn	6
CSCI204 The C Family and Unix	Autumn/ Spring	6
STAT131 Understanding Variation and Uncertainty	Autumn/ Spring	6
Plus at least 18 credit points from 100- and/or 200-level BIOL and/or CHEM and/or EESC and/or PHYS subjects selected from the Science Schedule.		
Plus at least 18 credit points selected from the Computer Science, Science and/or General Schedules.		
<b>Year 3</b>		
CSCI212 Interacting Systems	Autumn	6
CSCI222 Systems Development	Spring	6
Plus at least 12 credit points of 300-level subjects selected from the Computer Science Schedule.		



Plus at least 24 credit points from 200- and/or 300-level BIOL and/or CHEM and/or EESC and/or PHYS subjects selected from the Science Schedule.

Plus at least 12 credit points selected from the Computer Science, Science and/or General Schedules.

#### Year 4

CSCI321	Project	Annual	12
---------	---------	--------	----

Plus at least 12 credit points of 300-level subjects selected from the Computer Science Schedule.

Plus at least 24 credit points from 200- and/or 300-level BIOL and/or CHEM and/or EESC and/or PHYS subjects selected from the Science Schedule.

If the Science major study is Physics, please refer to your coordinator for details of MATHS subject selection.

### Major Study Areas

Please refer to the separate entries for the Bachelor of Computer Science and the Bachelor of Science (in Faculties of Science and Engineering).

### Honours

Candidates may apply, within normal procedures, to register for either, or consecutively, both, the Bachelor of Computer Science (Honours) or the Bachelor of Science (Honours) after the satisfactory completion of the joint program.

### Professional Recognition

The Bachelor of Computer Science is accredited by the Australian Computer Society as meeting requirements for membership at a "Professional level".

## Bachelor of Creative Arts - Bachelor of Computer Science

Testamur Title of	Bachelor of Creative Arts (major study)
Degree:	Bachelor of Computer Science (major study)
Abbreviation:	BCA/BCompSc
Home Faculty:	Creative Arts
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	844
UAC Code:	751503
CRICOS Code:	031166K

### Overview

Please refer to the entries for the Bachelor of Creative Arts and the Bachelor of Computer Science.

### Entry Requirements / Assumed Knowledge

Please refer to the entry requirements/assumed knowledge for the Bachelor of Creative Arts and the Bachelor of Computer Science.

### Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>

### Course Requirements

To qualify for award of the double degree of Bachelor of Creative Arts - Bachelor of Computer Science, a candidate must satisfactorily complete at least 216 credit points from the Computer Science Schedule, the Creative Arts Schedule and the General Schedule.

The 216 credit points must include:

- no more than 96 credit points at 100 level;
- no more than 36 credit points (ie 1/6) of subjects at PC grade.

The 108 credit points for Creative Arts must include a major study for the Bachelor of Creative Arts comprising 108 credit points of compulsory subjects as listed in the Bachelor of Creative Arts course structure.

The 108 credit points for Computer Science must include:

- the following core subjects:
 

CSCI102	Systems
CSCI103	Algorithms & Problem Solving
CSCI114	Procedural Programming
CSCI124	Object Programming
MATH121	Discrete Mathematics
STAT131	Understanding Variation & Uncertainty
CSCI203	Algorithms and Data Structures
CSCI204	The C Family and Unix
CSCI212	Interacting Systems
CSCI222	Systems Development
CSCI321	Project
- An additional 24 credit points of 300-level subjects, of which 12 credit points must be CSCI subjects. Note that at least 24 credit points of 300-level subjects, including CSCI321, must be at pass grade or better.
- Elective subjects from the Computer Science Schedule, the Creative Arts Schedule or the General Schedule to the value of at least 12 credit points.

## Course Program

The following program of study is recommended to satisfy the requirements in minimum time

Subjects	Session	Credit Points
<b>Year 1</b>		
CSCI103	Algorithms and Problem Solving	Autumn/Spring 6
CSCI114	Procedural Programming	Autumn/Spring 6
Plus up to 36 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.		
<b>Year 2</b>		
CSCI102	Systems	Spring 6
CSCI124	Object Programming	Autumn/ Spring 6
CSCI212	Interacting Systems	Autumn 6
CSCI222	Systems Development	Spring 6
MATH121	Discrete Mathematics	Autumn 6
STAT131	Understanding Variation and Uncertainty	Autumn/ Spring 6
Plus up to 24 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.		
<b>Year 3</b>		
CSCI203	Algorithms and Data Structures	Autumn 6
CSCI204	The C Family and Unix	Autumn/ Spring 6
Plus 12 credit points selected from the Computer Science Schedule, the Creative Arts Schedule or the General Schedule.		
Plus 12 credit points of 300-level subjects (Noting that CSCI336 Computer Graphics is required for the students enrolled in the Visual or Graphic Arts Studies programme in the Creative Arts degree.)		
Plus up to 24 credit points of prescribed subjects for a Major Study selected from the Creative Arts course structure.		
<b>Year 4</b>		
CSCI321	Project	Annual 12
Plus 12 credit points of 300 level Computer Science subjects		
Plus 24 credit points of subjects from Creative Arts Schedule		

## Major Study Areas

Please refer to the entries for the Bachelor of Creative Arts and the Bachelor of Computer Science

## Honours

Subject to satisfactory performance, existing 48 credit point end-on honours courses will be available for either the Bachelor of Computer Science or the Bachelor of Creative Arts, or sequentially for both degrees. Please refer to the entries for each degree for further details.

### **Professional Recognition**

The Bachelor of Computer Science is accredited by the Australian Computer Society as meeting requirements for membership at a "Professional level".

## Bachelor of Engineering - Bachelor of Arts

Testamur Title of Degree:	Bachelor of Engineering (name of major)
Abbreviation:	Bachelor of Arts (name of major)
Home Faculty:	BE,BA
Duration:	Informatics
Total Credit Points:	5 years (10 sessions) or part-time equivalent
Delivery Mode:	274
Starting Session(s):	Face-to-face
Location:	Autumn/Spring
UOW Course Code:	Wollongong
UAC Code:	704E, 704F
CRICOS Code:	751303
	048492A

### Overview

There is a high demand in industry and commerce for quality graduates who have expertise in more than one discipline. The double degree program Bachelor of Engineering-Bachelor of Arts combines the aims of the BE with those of the BA.

It offers the opportunity for professional engineering students, who have a flair for languages, history, philosophy, etc., to combine their interest with their professional engineering studies in computer, electrical or telecommunications engineering.

Please refer to the entries for the Bachelor of Engineering and the Bachelor of Arts for further details.

### Entry Requirements/Assumed Knowledge

Approximate UAI: 90

Assumed Knowledge: Any two units of English plus Mathematics and two units of Science.

Recommended Studies: English Advanced, HSC Mathematics Extension 1, Physics.

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

### Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>

### Course Requirements

Students are required to satisfactorily complete one of the programs in Computer Engineering, Electrical Engineering or Telecommunications Engineering listed below.

Normally a double degree program requires students to complete 264 credit points, in some cases, however, depending upon the program of study chosen, this number may be exceeded.

Generally, there is a minimum requirement of 72 credit points in subjects from the Arts Schedule for the BA. In most cases, however, students should expect to be required to take up to 90 credit points from the Arts Schedule.

The choice of Arts subjects will be constrained by the requirements for a BA degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts.

All BE,BA students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

It is a requirement of the BE,BA that all students enrolled maintain a weighted average mark of 67.5% or better throughout the course or they will be transferred to the BE Course.

### Professional Experience

All BE,BA students must accumulate at least 12 weeks of approved professional engineering experience, documented in the form of employment reports and preferably in the period between Years 4 and 5.

## Honours

The degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

Please refer to the Bachelor of Arts entry for detail regarding the Bachelor of Arts (Honours).

## Professional Recognition

The Bachelor of Engineering (Computer Engineering) and the Bachelor of Engineering (Electrical Engineering) degrees are accredited by Engineers Australia and the Singapore Professional Engineers Board.

The Bachelor of Engineering (Telecommunications Engineering) degree is accredited by Engineers Australia.

## Other Information

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Arts, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE,BA.

Further information is available from <http://www.informatics.uow.edu.au/> or contact the School of Electrical, Computer and Telecommunications Engineering on +61 2 4221 3065.

## Bachelor of Engineering (Computer Engineering) - Bachelor of Arts

To qualify for award of the degrees of Bachelor of Engineering (Computer Engineering) and Bachelor of Arts, a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Computer Engineering), (except the Computer Option) having a value of 186 credit points; and
- (b) the requirements for the Bachelor of Arts.

To qualify for the award of the degree of Bachelor of Arts only, a candidate must satisfy requirements stipulated in Course Rule 105.

## Recommended Full-Time Program

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
Plus	Choice of 100/200-level Arts Subjects	Autumn/Spring	18
<b>Year 3</b>			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300-level Arts Subjects	Autumn/Spring	30
<b>Year 4</b>			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE363	Communication Theory	Spring	6
CSCI205	Development Methods and Tools	Spring	6
Plus	Choice of 200/300-level Arts Subjects	Autumn/Spring	32

**Year 5**

ECTE457	Thesis	Annual	18
CSCI311	Software Process Management	Autumn	6
ECTE431	Real-time Computing	Autumn	3
ECTE432	Computer Systems	Autumn	3
Plus	2 Final Year Specialisation Subjects	Autumn	6
	4 Final Year Specialisation Subjects	Spring	12
	Choice of 300-level Arts Subjects	Autumn/Spring	8

**Bachelor of Engineering (Electrical Engineering) - Bachelor of Arts**

To qualify for award of the degrees of Bachelor of Engineering (Electrical Engineering) and Bachelor of Arts a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Electrical Engineering), (except the Electrical Option) and having a value of 186 credit points; and
- (b) the requirements for the Bachelor of Arts.

To qualify for the award of the degree of Bachelor of Arts only, a candidate must satisfy requirements stipulated in Course Rule 105.

**Recommended Full-Time Program**

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/ Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
Plus	Choice of 100/200-level Arts Subjects	Autumn/ Spring	18
<b>Year 3</b>			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300-level Arts Subjects	Autumn/ Spring	30
<b>Year 4</b>			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE323	Power Engineering 2	Autumn	6
ECTE363	Communication Theory	Spring	6
Plus	Choice of 200/300-level Arts Subjects	Autumn/ Spring	32
<b>Year 5</b>			
ECTE457	Thesis	Annual	18
Plus	6 Final Year Specialisation Subjects	Autumn	18
Plus	4 Final Year Specialisation Subjects	Autumn	12
Plus	Choice of 300-level Arts Subjects	Autumn/ Spring	8

## Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Arts

To qualify for award of the degrees of Bachelor of Engineering (Telecommunications Engineering) and Bachelor of Arts a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Telecommunications Engineering), (except one Telecommunications Option and replacing one Telecommunications Option with an Informatics Option) and having a value of 186 credit points; and
- (b) the requirements for the Bachelor of Arts.

To qualify for the award of the degree of Bachelor of Arts only, a candidate must satisfy requirements stipulated in Course Rule 105.

### Recommended Full-Time Program

Subjects		Session	Credit Points
Year 1			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
Year 2			
CSCI204	The C Family and Unix	Autumn/ Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers, Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
Plus	Choice of 100/200-level Arts Subjects	Autumn/ Spring	18
Year 3			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE333	Digital Hardware 2	Spring	6
ECTE344	Control Theory	Autumn	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300-level Arts Subjects	Autumn/Spring	30
Year 4			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE364	Telecommunication Networks 1	Autumn	6
ECTE363	Communication Theory	Spring	6
Plus	Informatics Option	Spring	6
	Choice of 200/300-level Arts Subjects	Autumn/Spring	24
Year 5			
ECTE457	Thesis	Annual	18
ECTE461	Telecommunications Queuing Theory	Autumn	3
ECTE462	Telecommunications System Modelling	Autumn	3
Plus	2 Final Year Specialisation Subjects	Autumn	6
	4 Final Year Specialisation Subjects	Spring	12
	Choice of 300-level Arts Subjects	Autumn/Spring	16

## Bachelor of Engineering - Bachelor of Commerce

Testamur Title of Degree:	Bachelor of Engineering (name of major) Bachelor of Commerce (name of major)
Abbreviation:	BE, BCom
Home Faculty:	Informatics
Duration:	5 years (10 sessions) or part-time equivalent
Total Credit Points:	264
Delivery Mode:	Face-to face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	727F
UAC Code:	751602
CRICOS Code:	042625G

### Overview

There is a high demand in industry and commerce for quality graduates who have expertise in more than one discipline. The double degree program Bachelor of Engineering-Bachelor of Commerce combines the aims of the BE with those of the BCom. It offers the opportunity for professional engineering students, who have a flair for business, finance, management, marketing, etc., to combine their interest with their professional engineering studies in computer, electrical or telecommunications engineering. It is likely to be of particular interest to those students who wish to undertake a career in management.

Please refer to the entries for the Bachelor of Engineering and the Bachelor of Commerce for further details.

### Entry Requirements / Assumed Knowledge

Approximate UAI: 90

Assumed Knowledge: Any two units of English plus Mathematics and two units of Science.

Recommended Studies: English Advanced, HSC Mathematics Extension 1, Physics.

For entry requirements for students 21 & over or international students, please refer to the relevant prospectus.

### Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:

<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:

<http://www.uow.edu.au/prospective/international/credit/>

### Course Requirements

Students are required to satisfactorily complete one of the programs in Computer Engineering, Electrical Engineering or Telecommunications Engineering listed below. Normally a double degree program requires students to complete 264 credit points, in some cases, however, depending upon the program of study chosen, this number may be exceeded.

To assist students to complete their program, some Commerce subjects are available in Summer Session. Students should consult the timetable for details.

The choice of Commerce subjects will be constrained by the requirements for a BCom degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce.

All BE,BCom students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

It is a requirement of the BE,BCom that all students enrolled maintain a weighted average mark of 67.5% or better throughout the course or they will be transferred to the BE Course.

### Professional Experience

All BE,BCom students must accumulate at least 12 weeks of approved professional engineering experience, documented in the form of employment reports and preferably in the period between Years 4 and 5.



## Honours

The degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

Please refer to the Bachelor of Commerce entry for detail regarding the Bachelor of Commerce (Honours).

## Professional Recognition

The Bachelor of Engineering (Computer Engineering) and the Bachelor of Engineering (Electrical Engineering) degrees are accredited by Engineers Australia and the Singapore Professional Engineers Board.

The Bachelor of Engineering (Telecommunications Engineering) degree is accredited by Engineers Australia.

## Other Information

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Commerce, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE,BCom.

Further information is available from <http://www.informatics.uow.edu.au/> or contact the School of Electrical, Computer and Telecommunications Engineering on +61 2 4221 3065.

## Bachelor of Engineering (Computer Engineering) - Bachelor of Commerce

To qualify for award of the degrees of Bachelor of Engineering (Computer Engineering) and Bachelor of Commerce a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Computer Engineering), (except ECTE250 Engineering Design and Management 2 and the Computer Option) and having a value of 180 credit points; and
- (b) the requirements for the Bachelor of Commerce.

To qualify for the award of the degree of Bachelor of Commerce only, a candidate must satisfy requirements stipulated in Course Rule 106.

### Recommended Full-Time Program

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
In addition, students will be required to complete a 100-level six credit point Commerce subject, which may be taken in Summer Session.			
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
Plus	Choice of 100/200-level Commerce Subjects	Autumn/Spring	18
<b>Year 3</b>			
ECTE313	Electronics	Annual	6
ECTE344	Control Theory	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300-level Commerce Subjects	Autumn/Spring	30
<b>Year 4</b>			
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE363	Communication Theory	Spring	6
CSCI205	Development Methods and Tools	Spring	6
Plus	Choice of 200/300-level Commerce Subjects	Autumn/Spring	30

**Year 5**

ECTE457	Thesis	Annual	18
CSCI311	Software Process Management	Autumn	6
ECTE431	Real-time Computing	Autumn	3
ECTE432	Computer Systems	Autumn	3
Plus	2 Final Year Specialisation Subjects	Autumn	6
	4 Final Year Specialisation Subjects	Spring	12
	300-level Commerce Subject	Autumn/Spring	6

**Bachelor of Engineering (Electrical Engineering) - Bachelor of Commerce**

To qualify for award of the degrees of Bachelor of Engineering (Electrical Engineering) and Bachelor of Commerce a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Electrical Engineering), (except ECTE250 Engineering Design and Management 2 and the Electrical Option) and having a value of 180 credit points; and
- (b) the requirements for the Bachelor of Commerce.

To qualify for the award of the degree of Bachelor of Commerce only, a candidate must satisfy requirements stipulated in Course Rule 106.

**Recommended Full-Time Program**

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
In addition, students will be required to complete a 100-level six credit point Commerce subject, which may be taken in Summer Session.			6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
Plus	Choice of 100/200-level Commerce Subjects	Autumn/Spring	18
<b>Year 3</b>			
ECTE313	Electronics	Annual	6
ECTE344	Control Theory	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300-level Commerce Subjects	Autumn/ Spring	30
<b>Year 4</b>			
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE323	Power Engineering 2	Autumn	6
ECTE363	Communication Theory	Spring	6
Plus	Choice of 200/300-level Commerce Subjects	Autumn/ Spring	30
<b>Year 5</b>			
ECTE457	Thesis	Annual	18
Plus	6 Final Year Specialisation Subjects	Autumn	18
	4 Final Year Specialisation Subjects	Spring	12
	300-level Commerce Subject	Autumn/ Spring	6

## Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Commerce

To qualify for award of the degrees of Bachelor of Engineering (Telecommunications Engineering) and Bachelor of Commerce a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Telecommunications Engineering), (except ECTE250 Engineering Design and Management 2 and one Telecommunications Option, and replacing one Telecommunications Option with an Informatics Option) and having a value of 180 credit points; and
- (b) the requirements for the Bachelor of Commerce.

To qualify for the award of the degree of Bachelor of Commerce only, a candidate must satisfy requirements stipulated in Course Rule 106.

### Recommended Full-Time Program

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
In addition, students will be required to complete a 100-level six credit point Commerce subject, which may be taken in Summer Session.			6
Note: MATH187 may be replaced by MATH141/161; MATH188 may be replaced by MATH142/162			
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/ Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH283	Mathematics 2E for Engineers Part 1	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
Plus	Choice of 100/200-level Commerce Subjects	Autumn/Spring	18
<b>Year 3</b>			
ECTE313	Electronics	Annual	6
ECTE344	Control Theory	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300-level Commerce Subjects	Autumn/Spring	30
<b>Year 4</b>			
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE364	Telecommunication Networks 1	Autumn	6
ECTE363	Communication Theory	Spring	6
Plus	Informatics Option	Spring	6
	Choice of 200/300-level Commerce Subjects	Autumn/Spring	24
<b>Year 5</b>			
ECTE457	Thesis	Annual	18
ECTE461	Telecommunications Queuing Theory	Autumn	3
ECTE462	Telecommunications System Modelling	Autumn	3
Plus	2 Final Year Specialisation Subjects	Autumn	6
	4 Final Year Specialisation Subjects	Spring	12
	300-level Commerce Subject	Autumn/Spring	12

## Bachelor of Engineering - Bachelor of Mathematics

Testamur Title of Degree:	Bachelor of Engineering (name of major)
Abbreviation:	Bachelor of Mathematics (name of major)
Home Faculty:	BE, BMath
Duration:	Informatics
Total Credit Points:	5 years (10 sessions) or part-time equivalent
Delivery Mode:	264
Starting Session(s):	Face-to-face
Location:	Autumn/Spring
UOW Course Code:	Wollongong
UAC Code:	738
CRICOS Code:	751611
	BEng (Inf)/BMath: 002327E
	BEng(Eng)/BMath: 042626G

### Overview

There is a high demand in industry and commerce for quality graduates who have expertise in more than one discipline. The double degree program Bachelor of Engineering-Bachelor of Mathematics combines the aims of the BE with those of the BMath. It offers the opportunity for professional engineering students, who have a flair for mathematics or statistics, to combine their interest with their professional engineering studies in computer, electrical or telecommunications engineering. It is likely to be of particular interest to those students who wish to undertake a career in research.

Please refer to the entries for the Bachelor of Engineering and the Bachelor of Mathematics for further details.

### Entry Requirements/Assumed Knowledge

Approximate UAI: 90

Assumed Knowledge: Any two units of English plus Mathematics and two units of Science.

Recommended Studies: English Advanced, HSC Mathematics Extension 1, Physics.

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

### Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:

<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:

<http://www.uow.edu.au/prospective/international/credit>

### Course Requirements

Students are required to satisfactorily complete one of the programs in Computer Engineering, Electrical Engineering or Telecommunications Engineering listed below. Normally a double degree program requires students to complete 264 credit points, in some cases, however, depending upon the program of study chosen, this number may be exceeded.

The choice of Mathematics or Statistics subjects will be constrained by the requirements for a BMath degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Mathematics and Applied Statistics.

All BE, BMath students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

It is a requirement of the BE, BMath that all students enrolled maintain a weighted average mark of 67.5% or better throughout the course or they will be transferred to the BE Course.

### Professional Experience

All BE, BMath students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between Years 4 and 5.

### Honours

The degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of Honours awarded are defined in the Course Rules.

Please refer to the Bachelor of Mathematics entry for detail regarding the Bachelor of Mathematics (Honours).

### Professional Recognition

The Bachelor of Engineering (Computer Engineering) and the Bachelor of Engineering (Electrical Engineering) degrees are accredited by Engineers Australia and the Singapore Professional Engineers Board.

The Bachelor of Engineering (Telecommunications Engineering) degree is accredited by Engineers Australia.

### Other Information

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Informatics, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE,BMath.

Further information is available from <http://www.informatics.uow.edu.au/> or contact the School of Electrical, Computer and Telecommunications Engineering on +61 2 4221 3065.

### Bachelor of Engineering (Computer Engineering) - Bachelor of Mathematics

To qualify for award of the degrees of Bachelor of Engineering (Computer Engineering) and Bachelor of Mathematics a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Computer Engineering), (except MATH283 Mathematics 2E for Engineers Part 1 and replacing the Computer Option with an Informatics Option) and having a value of 186 credit points;
- (b) Requirements 2, 3, 6, 8(c) and 9, for the Bachelor of Mathematics, including no more than 18 credit points at 100-level.

To qualify for the award of the degree of Bachelor of Mathematics only, a candidate must satisfy requirements stipulated in Course Rule 108.

#### Recommended Full-Time Program

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH203	Linear Algebra	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
MATH202	Differential Equations 2	Spring	6
MATH204	Complex Variables and Group Theory	Spring	6
<b>Year 3</b>			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300 level Mathematics or Statistics Subjects	Autumn/Spring	24
<b>Year 4</b>			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE363	Communication Theory	Spring	6
CSCI205	Development Methods and Tools	Spring	6

## Course Information

Plus	Choice of 300-level Mathematics or Statistics Subjects	Autumn/ Spring	24
<b>Year 5</b>			
CSCI311	Software Process Management	Autumn	6
ECTE431	Real-time Computing	Autumn	3
ECTE432	Computer Systems	Autumn	3
ECTE457	Thesis	Annual	18
Plus	2 Final Year Specialisation Subjects	Autumn	6
Plus	4 Final Year Specialisation Subjects	Spring	12
Plus	Informatics Option	Autumn/ Spring	6

## Informatics Option

Year 5:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER  
 (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or  
 (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

- (b) ECTE281 Embedded Internet Systems

Note that this selection may be constrained by pre- and co-requisites and timetabling.

## Bachelor of Engineering (Electrical Engineering) - Bachelor of Mathematics

To qualify for award of the degrees of Bachelor of Engineering (Electrical Engineering)-Bachelor of Mathematics a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Electrical Engineering) (except MATH283 Mathematics 2E for Engineers Part 1 and replacing the Electrical Option with an Informatics Option) and having a value of 186 credit points;
- (b) Requirements 2, 3, 6, 8(c) and 9, for the Bachelor of Mathematics, including no more than 18 credit points at 100-level.

To qualify for the award of the degree of Bachelor of Mathematics only, a candidate must satisfy requirements stipulated in Course Rule 108.

## Recommended Full-Time Program

Subjects		Session	Credit Points
Year 1			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
Year 2			
CSCI204 or	The C Family and Unix	Autumn/Spring	6
CSCI213 Plus	Java Programming and the Internet	Autumn	6
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH203	Linear Algebra	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
MATH202	Differential Equations 2	Spring	6
MATH204	Complex Variables and Group Theory	Spring	6
Year 3			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300 level Mathematics or Statistics Subjects	Autumn/Spring	24
Year 4			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6

ECTE301	Digital Signal Processing 1	Autumn	6
ECTE323	Power Engineering 2	Autumn	6
ECTE363	Communication Theory	Spring	6
Plus	Choice of 300-level Mathematics or Statistics Subjects	Autumn/ Spring	24
<b>Year 5</b>			
ECTE457	Thesis	Annual	18
Plus	6 Final Year Specialisation Subjects	Autumn	18
	4 Final Year Specialisation Subjects	Spring	12
	Informatics Option	Autumn/Spring	6

**Informatics Option**

Year 5:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
- (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
  - (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

- (b) ECTE281 Embedded Internet Systems.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

**Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Mathematics**

To qualify for award of the degrees of Bachelor of Engineering (Telecommunications Engineering)-Bachelor of Mathematics a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Telecommunications Engineering), (except MATH283 Mathematics 2E for Engineers Part 1 and replacing the Telecommunications Options with Informatics Options) and having a value of 186 credit points;
- (b) Requirements 2, 3, 6, 8(c) and 9 for the Bachelor of Mathematics, including no more than 18 credit points at 100-level.

To qualify for the award of the degree of Bachelor of Mathematics only, a candidate must satisfy requirements stipulated in Course Rule 108.

**Recommended Full-Time Program**

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH203	Linear Algebra	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
MATH202	Differential Equations 2	Spring	6
MATH204	Complex Variables and Group Theory	Spring	6
<b>Year 3</b>			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300 level Mathematics or Statistics Subjects	Autumn/Spring	24
<b>Year 4</b>			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6

## Course Information

ECTE301	Digital Signal Processing 1	Autumn	6
ECTE364	Telecommunication Networks 1	Autumn	6
ECTE363	Communication Theory	Spring	6
Plus	Informatics Option	Spring	6
	Choice of 300-level Mathematics or Statistics Subjects	Autumn/Spring	18
<b>Year 5</b>			
ECTE457	Thesis	Annual	18
ECTE461	Telecommunications Queuing Theory	Autumn	3
ECTE462	Telecommunications System Modelling	Autumn	3
Plus	2 Final Year Specialisation Subjects	Autumn	6
	4 Final Year Specialisation Subjects	Spring	12
	Informatics Option	Autumn/ Spring	6
	Choice of 300-level Mathematics or Statistics Subjects	Autumn/ Spring	6

## Informatics Option

Year 5:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
  - (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
  - (ii) the School of Mathematics and Applied Statistics (MATH or STAT).
- OR
- (b) ECTE281 Embedded Internet Systems.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

## Bachelor of Engineering - Bachelor of Science

Testamur Title of Degree:	Bachelor of Engineering (name of major)
Abbreviation:	Bachelor of Science (name of major)
Home Faculty:	BE, BSc
Duration:	Informatics
Total Credit Points:	5 years (10 sessions) or part-time equivalent
Delivery Mode:	264
Starting Session(s):	Face-to-face
Location:	Autumn/Spring
UOW Course Code:	Wollongong
UAC Code:	739
CRICOS Code:	751621
	028398J

## Overview

There is a high demand in industry and commerce for quality graduates who have expertise in more than one discipline. The double degree program Bachelor of Engineering-Bachelor of Science combines the aims of the BE with those of the BSc. It offers the opportunity for professional engineering students, who have a flair for the sciences, for example, physics, to combine their interest with their professional engineering studies in computer, electrical or telecommunications engineering. It is likely to be of particular interest to those students who wish to undertake a career in research.

Please refer to the entries for the Bachelor of Engineering and the Bachelor of Science (in the Faculties of Science and Engineering) for further details.

## Entry Requirements / Assumed Knowledge

Approximate UAI: 90

Assumed Knowledge: Any two units of English plus Mathematics and two units of Science.

Recommended Studies: English Advanced, HSC Mathematics Extension 1, Physics and two other units of Science.

For entry requirements for students 21 and over or international students, please refer to the relevant prospectus.

## Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>



## Course Requirements

Students are required to satisfactorily complete one of the programs in Computer Engineering, Electrical Engineering or Telecommunications Engineering listed below. Normally a double degree program requires students to complete 264 credit points, in some cases, however, depending upon the program of study chosen, this number may be exceeded.

The choice of Science subjects will be constrained by the requirements for a BSc degree as set out in the Course Rules and is subject to the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Head of the School of Engineering Physics or the Sub-Dean, Faculty of Science.

All BE, BSc students must sit for and perform satisfactorily in an English Literacy Test organised by the School in association with the Student Learning Development Centre. The test will be held during the first session of a student's enrolment at the University. It is a requirement of the BE degree that the student perform satisfactorily in at least one such test prior to enrolment in ECTE457 Thesis. Students who are deemed to require tuition in literacy in order to complete this requirement will be advised accordingly and will be required to repeat the literacy test the following year. Enrolment in and attendance at literacy courses will be the individual responsibility of the students concerned.

As indicated in the individual subject pre-requisites, students are required to complete satisfactorily the recommended first year before beginning the recommended third year and to complete satisfactorily the recommended second year before beginning the recommended fifth year. With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering, these requirements may be waived.

It is a requirement of the BE, BSc that all students enrolled maintain a weighted average mark of 67.5% or better throughout the course or they will be transferred to the BE Course.

### Professional Experience

All BE, BSc students must accumulate at least 12 weeks of approved professional experience, documented in the form of employment reports and preferably in the period between Years 4 and 5.

## Honours

The degree of Bachelor of Engineering (Honours) is awarded for meritorious performance over the course and particularly in the final year thesis subject. The classes of honours awarded are defined in the Course Rules.

Please refer to the Bachelor of Science entry for detail regarding the Bachelor of Science (Honours).

## Professional Recognition

The Bachelor of Engineering (Computer Engineering) and the Bachelor of Engineering (Electrical Engineering) degrees are accredited by Engineers Australia and the Singapore Professional Engineers Board.

The Bachelor of Engineering (Telecommunications Engineering) degree is accredited by Engineers Australia.

## Other Information

With the approval of the Head of the School of Electrical, Computer and Telecommunications Engineering and the Sub-Dean of the Faculty of Science, students who have completed the recommended first year program of the Bachelor of Engineering (Computer Engineering or Electrical Engineering or Telecommunications Engineering) course and who have gained a weighted average mark of 67.5% or better may transfer to the BE, BSc.

Further information is available from <http://www.informatics.uow.edu.au/> or contact the School of Electrical, Computer and Telecommunications Engineering on +61 2 4221 3065.

## Bachelor of Engineering (Computer Engineering) - Bachelor of Science

To qualify for award of the degrees of Bachelor of Engineering (Computer Engineering) and Bachelor of Science a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed for the Bachelor of Engineering (Computer Engineering), (replacing MATH283 Mathematics 2E for Engineers Part 1 with MATH201 Multivariate and Vector Calculus and MATH202 Differential Equations 2 and replacing the Computer Option with an Informatics Option) and having a value of 198 credit points;
- (b) Requirements for the Bachelor of Science or the Bachelor of Science (Physics).

To qualify for the award of the degree of Bachelor of Science or Bachelor of Science (Physics) only, a candidate must satisfy requirements stipulated in Course Rule 110.

### Recommended Full-Time Program

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6

## Course Information

PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
MATH202	Differential Equations 2	Spring	6
Plus	Choice of 100/200-level Science Subjects	Autumn/Spring	12
<b>Year 3</b>			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300-level Science Subjects	Autumn/Spring	24
<b>Year 4</b>			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE363	Communication Theory	Spring	6
CSCI205	Development Methods and Tools	Spring	6
Plus	Choice of 300-level Science Subjects	Autumn/ Spring	24
<b>Year 5</b>			
ECTE457	Thesis	Annual	18
CSCI311	Software Process Management	Autumn	6
ECTE431	Real-time Computing	Autumn	3
ECTE432	Computer Systems	Autumn	3
Plus	2 Final Year Specialisation Subjects	Autumn	6
	4 Final Year Specialisation Subjects	Spring	12
	Informatics Option	Autumn/ Spring	6

## Informatics Option

Year 5:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER
  - (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
  - (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

- (b) ECTE281 Embedded Internet Systems.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

## Bachelor of Engineering (Electrical Engineering) – Bachelor of Science

To qualify for award of the degrees of Bachelor of Engineering (Electrical Engineering)-Bachelor of Science a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- a) all subjects prescribed for the Bachelor of Engineering (Electrical Engineering), (replacing MATH283 Mathematics 2E for Engineers Part 1 with MATH201 Multivariate and Vector Calculus and MATH202 Differential Equations 2 and replacing the Electrical Option with an Informatics Option) and having a value of 198 credit points;
- b) requirements for the Bachelor of Science or the Bachelor of Science (Physics).

To qualify for the award of the degree of Bachelor of Science and Bachelor of Science (Physics) only, a candidate must satisfy requirements stipulated in Course Rule 110.

## Recommended Full-Time Program

Subjects		Session	Credit Points
Year 1			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6

MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6
<b>Year 2</b>			
CSCI204	The C Family and Unix	Autumn/Spring	6
or			
CSCI213	Java Programming and the Internet	Autumn	6
Plus			
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
MATH202	Differential Equations 2	Spring	6
Plus	Choice of 100/200-level Science Subjects	Autumn/Spring	12
<b>Year 3</b>			
ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291	Engineering Fundamentals	Spring	6
Plus	Choice of 200/300-level Science Subjects	Autumn/Spring	24
<b>Year 4</b>			
ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE323	Power Engineering 2	Autumn	6
ECTE363	Communication Theory	Spring	6
Plus	Choice of 300-level Science Subjects	Autumn/Spring	24
<b>Year 5</b>			
ECTE457	Thesis	Annual	18
Plus	6 Final Year Specialisation Subjects	Autumn	18
	4 Final Year Specialisation Subjects	Spring	12
	Informatics Option	Autumn/Spring	6

**Informatics Option**

Year 5:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:
- (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or
  - (ii) the School of Mathematics and Applied Statistics (MATH or STAT).

OR

- (b) ECTE281 Embedded Internet Systems.

Note that this selection may be constrained by pre- and co-requisites and timetabling

**Bachelor of Engineering (Telecommunications Engineering) - Bachelor of Science**

To qualify for award of the degrees of Bachelor of Engineering (Telecommunications Engineering)-Bachelor of Science a candidate must complete satisfactorily and independently each of (a) and (b) as follows:

- (a) all subjects prescribed by the Bachelor of Engineering (Telecommunications Engineering), (replacing MATH283 Mathematics 2E for Engineers Part 1 with MATH201 Multivariate and Vector Calculus and MATH202 Differential Equations 2 and replacing the Telecommunications Options with Informatics Options) and having a value of 198 credit points;
- (b) Requirements for the Bachelor of Science or Bachelor of Science (Physics).

To qualify for the award of the degree of Bachelor of Science only, a candidate must satisfy requirements stipulated in Course Rule 110.

**Recommended Full-Time Program**

Subjects		Session	Credit Points
Year 1			
CSCI191	Engineering Programming 1	Autumn	6
ECTE171	Introduction to Signals and Systems	Autumn	6
MATH187	Mathematics 1A Part 1	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
CSCI192	Engineering Programming 2	Spring	6
ECTE172	Introduction to Circuits and Devices	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
PHYS142	Fundamentals of Physics B	Spring	6

**Year 2**

CSCI204 or CSCI213 Plus	The C Family and Unix Java Programming and the Internet	Autumn/Spring Autumn	6 6
ECTE202	Circuits and Systems	Annual	6
ECTE233	Digital Hardware 1	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
ECTE212	Electronics and Communications	Spring	6
ECTE222	Power Engineering 1	Spring	6
MATH202 Plus	Differential Equations 2 Choice of 100/200-level Science Subjects	Spring Autumn/Spring	6 12

**Year 3**

ECTE250	Engineering Design and Management 2	Annual	6
ECTE344	Control Theory	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
ECTE333	Digital Hardware 2	Spring	6
ENGG291 Plus	Engineering Fundamentals Choice of 200/300-level Science Subjects	Spring Autumn/ Spring	6 24

**Year 4**

ECTE313	Electronics	Annual	6
ECTE350	Engineering Design and Management 3	Annual	6
ECTE301	Digital Signal Processing 1	Autumn	6
ECTE364	Telecommunication Networks 1	Autumn	6
ECTE363 Plus	Communication Theory Informatics Option	Spring Spring	6 6
	Choice of 300-level Science Subjects	Autumn/ Spring	18

**Year 5**

ECTE457	Thesis	Annual	18
ECTE461	Telecommunications Queuing Theory	Autumn	3
ECTE462	Telecommunications System Modelling	Autumn	3
Plus	2 Final Year Specialisation Subjects 4 Final Year Specialisation Subjects Informatics Option Choice of 300-level Science Subjects	Autumn Spring Autumn/ Spring Autumn/ Spring	6 12 6 6

**Informatics Option**

Year 5:

With the approval of the Head of School, students may select:

- (a) one six credit point, 200 or 300 or 400-level subject from those listed in the General Schedule and offered by EITHER:  
 (i) the School of Information Technology and Computer Science (CSCI, IACT or ITCS); or  
 (ii) the School of Mathematics and Applied Statistics (MATH or STAT)

OR

- (b) ECTE281 Embedded Internet Systems.

Note that this selection may be constrained by pre- and co-requisites and timetabling.

**Bachelor of Mathematics - Bachelor of Computer Science**

Testamur Title of	Bachelor of Mathematics (name of major)
Degree:	Bachelor of Computer Science (name of major)
Abbreviation:	BMath, BCompSc
Home Faculty:	Informatics
Duration:	4 years (8 sessions) or part-time equivalent
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	769
UAC Code:	751701
CRICOS Code:	016108A

**Overview**

Please refer to the entries for the Bachelor of Mathematics and the Bachelor of Computer Science.

## Entry Requirements / Assumed Knowledge

Please refer to the entry requirements/assumed knowledge for the Bachelor of Mathematics and the Bachelor of Computer Science.

## Advanced Standing

Information about Approved Credit Transfer Arrangements with domestic providers is available at:  
<http://www.uow.edu.au/handbook/advancedstanding/>

Information about Approved Credit Transfer Arrangements with international providers is available at:  
<http://www.uow.edu.au/prospective/international/credit/>

## Course Requirements

To qualify for the award of the double degree of Bachelor of Mathematics - Bachelor of Computer Science, a candidate must satisfactorily complete at least 216 credit points from the Computer Science Schedule, the Mathematics Schedule and the General Schedule, and, in so doing, satisfy the requirements of Course Rules 108 and 107 for the Bachelor of Mathematics and the Bachelor of Computer Science, respectively.

### Minimum Performance Requirement

Candidates must maintain a weighted average mark (WAM) of at least 65 at the end of each year, otherwise they must show cause as to why they should be permitted to remain registered for the two courses.

Candidates who, at the end of any year of registration, have satisfied the minimum rate of progress requirements under General Course Rule 8.8, but who do not have a WAM of at least 65 and who have not given adequate reason as to why they should be permitted to continue with registration for the joint course, will be required to transfer into either a Bachelor of Mathematics or a Bachelor of Computer Science.

## Course Program

The following program of study is recommended to satisfy the requirements in minimum time.

Subjects		Session	Credit Points
<b>Year 1</b>			
CSCI103	Algorithms and Problem Solving	Autumn	6
CSCI114	Procedural Programming	Autumn	6
CSCI124	Object Programming	Spring	6
MATH187	Mathematics 1A Part 1	Autumn	6
MATH188	Mathematics 1A Part 2	Spring	6
MATH111	Applied Mathematical Modelling 1	Spring	6
MATH121	Discrete Mathematics	Autumn	6
STAT131	Understanding Variations and Uncertainty	Spring	6
<b>Year 2</b>			
CSCI102	Systems	Spring	6
CSCI203	Algorithms and Data Structures	Autumn	6
CSCI204	The C Family and Unix	Autumn/ Spring	6
CSCI212	Interacting Systems	Autumn	6
IACT201#	Information Technology and Citizens' Rights	Autumn	6
MATH201	Multivariate and Vector Calculus	Autumn	6
MATH202	Differential Equations 2	Spring	6
Plus any two of			
MATH212	Applied Mathematical Modelling 2	Spring	6
MATH222	Continuous and Finite Mathematics	Autumn	6
STAT231	Probability and Random Variables	Autumn	6
STAT232	Estimation and Hypothesis Testing	Spring	6
Plus any 6 credit point 200-level CSCI subject			
# May be taken in year 3, in lieu of 6 credit points of 200- or 300-level subjects, and replaced in year 2 by 6 credit points of 100- or 200-level subjects.			
<b>Year 3</b>			
MATH203	Linear Algebra	Autumn	6
MATH204	Complex Variables and Group Theory	Spring	6
CSCI222	Systems Development	Spring	6

#### Course Information

Plus any 12 credit points of 300-level Mathematics subjects,  
Plus any 6 credit points 200-level Computer Science subjects,  
Plus any 12 credit points 300-level Computer Science subjects,  
Plus any 12 credit point of 200- or 300-level General Schedule subjects.

#### Year 4

CSCI321	Project	Annual	12
---------	---------	--------	----

Plus 24 credit points of 300-level Mathematics subjects.  
Plus 12 credit points of 300 level Computer Science subjects.

#### Major Study Areas

Please refer to the entries for the Bachelor of Mathematics and the Bachelor of Computer Science.

#### Honours

Candidates may apply to register for either, or consecutively, both the Bachelor of Mathematics (Honours) or the Bachelor of Computer Science (Honours) after the satisfactory completion of the double degree program.

#### Professional Recognition

The Bachelor of Computer Science is accredited by the Australian Computer Society as meeting requirements for membership at a "Professional level".

# Faculty of Law

## Degrees Offered

### Single Degrees

Bachelor of Laws - 3 year course

Bachelor of Laws - 4 year course (Not on offer 2005)

### Double Degrees

Bachelor of Arts - Bachelor of Laws

Bachelor of Communication and Media Studies - Bachelor of Laws

Bachelor of Commerce - Bachelor of Laws

Bachelor of Computer Science - Bachelor of Laws

Bachelor of Creative Arts - Bachelor of Laws

Bachelor of Engineering - Bachelor of Laws

Bachelor of Information and Communication Technology - Bachelor of Laws

Bachelor of Mathematics - Bachelor of Laws

Bachelor of Medical Science - Bachelor of Laws

Bachelor of Science - Bachelor of Laws

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>

International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

## Bachelor of Laws - 3 year course

Testamur Title of Degree:	Bachelor of Laws
Abbreviation:	LLB
Home Faculty:	Faculty of Law
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	152
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	770
UAC Code:	756101
CRICOS Code:	004339G

### Overview

This degree program is available only to graduates of other disciplines and consists entirely of Law subjects with a narrower range of elective options. The Faculty aims to provide a legal education which: equips students with a critical and questioning attitude; offers a broad perspective; and provides the foundation for a career in an extensive range of legal work.

### Entry Requirements / Assumed Knowledge

To be eligible to apply for the LLB (3 year course), applicants must hold a Bachelor's degree from an approved university. Applications for the LLB (3 year course) will be assessed on academic performance.

### Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

### Course Requirements

To qualify for the award of the degree of Bachelor of Laws a candidate who is enrolled in the LLB (3 year course) must complete, satisfactorily and independently, each of (a) and (b) as follows:

- all compulsory Law subjects;
- elective subjects to the value of 32 credit points from the LLB Schedule.

To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314 from the list of electives.

### Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB308 Public Law A	Autumn	8
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
LLB309 Public Law B	Spring	8
LLB311 Lawyers and Australian Society	Spring	8
<b>Second Year</b>		
LLB305 Property and Trusts A	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB392 Communication Skills	Autumn*	2
1 LLB Elective	Autumn	8
LLB306 Property and Trusts B	Spring	8
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
2 LLB Electives	Spring	16
<b>Third Year</b>		
LLB300 Remedies and Procedure	Autumn	8
LLB302 Law of Business Organisations	Autumn	8
LLB393 Drafting Skills	Autumn*	2
1 LLB Elective	Autumn	8
LLB301 Evidence	Spring	8
LLB312 Legal Theory	Spring	8
* Also available in Spring		



## Electives

Students must successfully complete elective subjects to the value of **32 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

Subject	Session	Credit Points
LLB303 Family, Children and Welfare	Autumn	8
LLB313 Legal Research Project A	Autumn / Spring	8
LLB314 Legal Research Project B	*	16
LLB316 Occupational Health and Safety Law	Autumn	8
LLB317 E-Commerce Law	Spring	8
LLB320 Commercial and Consumer Contracts	*	8
LLB321 Banking Law	Spring	8
LLB330 Law of Employment	Autumn	8
LLB331 Intellectual Property Law	Autumn	8
LLB332 Labour Relations Law	Spring	8
LLB334 Environmental Law	Spring	8
LLB335 Anti-Discrimination Law	Spring	8
LLB337 Comparative Studies in Law	Spring	8
LLB339 Advanced Criminal Law and Procedure	*	8
LLB341 Revenue Law	*	8
LLB343 International Law	Autumn	8
LLB344 Indigenous Peoples and Legal Systems	Autumn	8
LLB348 Media Law	*	8
LLB350 Special Study in Law A	*	8
LLB351 Special Study in Law B	*	8
LLB354 Human Rights Law	*	8
LLB355 Bankruptcy and Corporate Insolvency Law and Practice	*	8
LLB356 Insurance Law	*	8
LLB357 Conflict of Laws	*	8
LLB360 Foreign Investment Law in the People's Republic of China	*	8
LLB362 Advanced Revenue Law	*	8
LLB3911 Introduction to Natural Resources Law	*	8
LLB3918 Law of Land and Nature Conservation	*	8
LLB3919 Water Resources Law	*	8
LLB3920 Local Government Law and the Neighbourhood Environment	Spring	8
LLB3922 International Maritime Environmental Law	*	8
LLB3923 The Law of the Sea	*	8
LLB3924 International Environmental Law	*	8
LLB3927 Natural Resources Law Review	Autumn / Spring	8
LLB3928 Special Studies in Natural Resources Law I	*	8
LLB3929 Special Studies in Natural Resources Law II	*	8
LLB396 Advanced Legal Skills	Spring	8
SOC222 Sociology of Crime and Justice	*	8
SOC244 Punishment: Purpose, Practice, Policy	Spring	8
SOC349 Governing Society, the Self & the Social	*	8

*\*Not available in 2005*

## Honours

To be eligible for the award of Bachelor of Laws (Honours), students MUST:

- (i) complete either LLB313 Legal Research Project A (8 credit points) or LLB314 Legal Research Project B (16 credit points) from the LLB Schedule; and
- (ii) obtain a weighted average mark within the specified ranges.

For further information on honours, refer to the Code of Practice - Honours.

## Professional Recognition

On completion of the LLB degree, a student who wishes to practise as a barrister or solicitor must undertake some form of professional practical training, the requirements for which vary between each state and territory of Australia.

In NSW, a student who intends to qualify for admission to practice as a legal practitioner is required to undertake a practical legal training course accredited by the Legal Practitioners' Admission Board, followed by or incorporating a period of practical experience in a law-related setting. The Faculty of Law has established a Legal Practice Unit and its Practical Legal Training Course has been accredited by the Legal Practitioners' Admissions Board. The course has its foundations in the Wollongong LLB. The course is offered over 20 weeks in a flexible mode integrating training with professional experience.

In some instances the course is also available to final year law students, so that they are qualified for admission to practice as soon as they finish their LLB degree.

## Other Information

Students who intend to practise as solicitors after admission should obtain further information about restricted practice and the mandatory continuing legal education requirements from the Law Society of NSW. Students who intend to practice as barristers after admission will be required to read with a senior barrister for a period of time and to undertake the Bar Readers' Course before being qualified to take briefs on their own account. Further information is available from the NSW Bar Association.

## Bachelor of Laws - 4 year course (Not on offer 2005)

Testamur Title of Degree:	Bachelor of Laws
Abbreviation:	LLB
Home Faculty:	Faculty of Law
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	184
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	777
UAC Code:	756102
CRICOS Code:	006990G

## Overview

This degree program consists entirely of Law subjects with a broader range of elective options. The Faculty aims to provide a legal education which: equips students with a critical and questioning attitude; offers a broad perspective; and provides the foundation for a career in an extensive range of legal work.

## Entry Requirements / Assumed Knowledge

To be eligible to apply for the LLB (4 year course), applicants must be at least 25 years of age on 31 January 2004 and have not undertaken any study at University. Applicants must sit the Special Tertiary Admissions Test (STAT). Refer to the UAC Guide for information on how to register for the STAT. Selected applicants will then be invited to sit the Australian Law Schools Entry Test (ALSET). For enquiries about the ALSET, call (02) 4221 3924.

## Advanced Standing

Not applicable.

## Course Requirements

To qualify for the award of the degree of Bachelor of Laws a candidate who is enrolled in the LLB (4-year course) must complete, satisfactorily and independently, each of (a) and (b) as follows:

- a) all compulsory Law subjects;
- b) elective subjects to the value of 64 credit points from the LLB Schedule.

To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314 from the list of electives.

## Course Program

Subjects (by year)		Session	Credit Points
<b>First Year</b>			
LLB100	Foundations of Law A	Autumn	6
LLB110	Legal Research and Writing	Autumn	4
LLB304	Criminal Law and the Process of Justice	Autumn	8
LLB200	Foundations of Law B	Spring	6
LLB210	Law of Contracts	Spring	8
LLB311	Lawyers and Australian Society	Spring	8
<b>Second Year</b>			
LLB305	Property and Trusts A	Autumn	8
LLB307	Law of Torts	Autumn	8
LLB308	Public Law A	Autumn	8
LLB392	Communication Skills	Autumn*	2
LLB306	Property and Trusts B	Spring	8
LLB309	Public Law B	Spring	8
LLB391	Dispute Management Skills	Spring	2
LLB394	Advocacy Skills	Spring	2
1 LLB Elective		Spring	8
<b>Third Year</b>			
LLB300	Remedies and Procedure	Autumn	8
LLB302	Law of Business Organisations	Autumn	8

LLB393 Drafting Skills	Autumn*	2
1 LLB Elective	Autumn	8
LLB301 Evidence	Spring	8
2 LLB Electives	Spring	16
<b>Fourth Year</b>		
3 LLB Electives	Autumn	24
LLB312 Legal Theory	Spring	8
1 LLB Elective	Spring	8
* Also available in Spring		

## Electives

Students must successfully complete elective subjects to the value of **64 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws – 3 year course.

## Honours

See Bachelor of Laws – 3 year course.

## Bachelor of Arts / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Arts/ Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BA/LLB
Home Faculty:	Faculty of Law
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	266*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	771
UAC Code:	751201
CRICOS Code:	004340C

\* This is a minimum figure and may vary depending on major.

## Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BA/LLB degree offers a range of choices to those interested in humanities and social sciences, and includes modern languages.

For the first three years of the double degree, students enrol substantially in subjects offered by the Faculty of Arts combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

## Entry Requirements / Assumed Knowledge

Assumed Knowledge: Any two units of English.

Recommended Studies: English Advanced.

## Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

To qualify for the award of the degrees of Bachelor of Arts / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- all compulsory Law subjects;
- elective subjects to the value of 56 credit points from the LLB Schedule. The subjects SOC222, SOC244 or SOC349 may be completed as electives for the LLB. However, they MAY NOT be counted towards the BA component of the double degree if they are being used as electives in Law. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

- c) subjects to the value of at least 90 credit points (not having the prefix LAW), from the course structures of the Bachelor of Arts, the General Schedule or the course Structures of the Faculty of Health and Behavioural Sciences. The 90 credit points must include one major study taught by a member unit of the Faculty of Arts (including Aboriginal Studies) OR a major study in Psychology or Population Health.

Note: No more than 48 credit points shall be for 100-level subjects.

## Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Arts or Health and Behavioural Sciences schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from Arts or Health and Behavioural Sciences schedule	Autumn and Spring	30
<b>PLUS</b>		
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB308 Public Law A	Autumn	8
LLB392 Communication Skills	Autumn*	2
LLB309 Public Law B	Spring	8
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
<b>Third Year</b>		
Subjects from Arts or Health and Behavioural Sciences schedule	Autumn and Spring	24
<b>PLUS</b>		
LLB305 Property and Trusts A	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB311 Lawyers and Australian Society	Autumn*	8
LLB306 Property and Trusts B	Spring	8
<b>Fourth Year</b>		
LLB300 Remedies and Procedure	Autumn	8
LLB302 Law of Business Organisations	Autumn	8
LLB393 Drafting Skills	Autumn*	2
LLB301 Evidence	Spring	8
2 LLB Electives	Spring	16
<b>Fifth Year</b>		
3 LLB Electives	Autumn	24
LLB312 Legal Theory	Spring	8
2 LLB Electives	Spring	16

\* Available Autumn and Spring

## Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Arts or Health and Behavioural Sciences Schedule for majors available in the Bachelor of Arts course.

## Electives

Students must successfully complete elective subjects to the value of **56 credit points** from the LLB Schedule. The subjects SOC222, SOC244 or SOC349 may be completed as electives for the LLB course. However, they may not be counted towards the BA component of the double degree if they are being used as electives in Law.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws – 3 year course.

## Honours

See Bachelor of Laws – 3 year course.

To be eligible for the award of Honours in ARTS, candidates must undertake a separate one-year (full-time, or part-time equivalent) degree and must make a separate degree application.

## Bachelor of Communication and Media Studies / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Communication and Media Studies / Bachelor of Laws (a separate testamur is awarded for each degree)
---------------------------	--

Abbreviation:	BCM/LLB
Home Faculty:	Faculty of Law
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	264*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	760
UAC Code:	751210
CRICOS Code:	049643E

\* This is a minimum figure and may vary depending on major.

## Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BCM/LLB degree will provide those students interested in media law with an overview of the industry, its practices and policies. It also provides a solid foundation for students interested in politics or government.

For the first three years of the double degree, students enrol substantially in subjects offered by the Faculty of Arts combined with a small number of Law subjects. In the final two years of the degree, students focus on Law subjects.

## Entry Requirements / Assumed Knowledge

Assumed Knowledge: Any two units of English.

Recommended Studies: English Advanced.

## Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions.

Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

To qualify for the award of the degrees of Bachelor of Communication and Media Studies / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- a) all compulsory Law subjects;
- b) elective subjects to the value of 56 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- c) complete all compulsory (core) subjects in the Bachelor of Communication and Media Studies and
  - i) the required subjects of one of the major studies in that degree;
  - ii) no more than 48 credit points shall be for 100-level subjects; and
  - iii) where necessary, undertake elective subjects not having the prefix LAW from the Course Structures of the Bachelor of Laws, the Bachelor of Communication and Media Studies or the General Schedule to ensure that at least 264 credit points have been completed.

## Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from BCM Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from BCM Schedule	Autumn and Spring	30
<b>PLUS</b>		
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB392 Communication Skills	Autumn*	2
LLB308 Public Law A	Autumn	8
LLB309 Public Law B	Spring	8
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
<b>Third Year</b>		
Subjects from BCM Schedule	Autumn and Spring	22
<b>PLUS</b>		
LLB305 Property and Trusts A	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB311 Lawyers and Australian Society	Autumn*	8
LLB306 Property and Trusts B	Spring	8

#### Fourth Year

LLB300	Remedies and Procedure	Autumn	8
LLB302	Law of Business Organisations	Autumn	8
LLB393	Drafting Skills	Autumn*	2
LLB301	Evidence	Spring	8
2 Electives		Spring	16

#### Fifth Year

3 Electives		Autumn	24
LLB312	Legal Theory	Spring	8
2 Electives		Spring	16

\* Available Autumn and Spring

NOTE: The structure of the course program for Bachelor of Communication and Media Studies (Journalism Major) may vary slightly - refer to the Faculty of Arts.

### Majors

Majors are NOT available in the Bachelor of Laws course. Students should refer to the Faculty of Arts for majors available in the BCM course.

### Electives

Students must successfully complete elective subjects to the value of **56 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

### Elective Law Subjects

See Bachelor of Laws - 3 year course.

### Honours

See Bachelor of Laws - 3 year course.

## Bachelor of Commerce / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Commerce/ Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BCom/LLB
Home Faculty:	Faculty of Law
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	266*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	773
UAC Code:	751202
CRICOS Code:	003683K

\* This is a minimum figure and may vary depending on major.

### Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BCom/LLB degree provides opportunities for students to combine their interest in law with business or commerce.

For the first three years of the double degree, students enrol substantially in subjects offered by the Faculty of Commerce combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

### Entry Requirements / Assumed Knowledge

Assumed Knowledge: Any two units of English.

Recommended Studies: English Advanced.

### Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

To qualify for the award of the degrees of Bachelor of Commerce / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- a) all compulsory Law subjects;
- b) elective subjects to the value of 56 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- c) subjects selected from the General Schedule, including the satisfactory completion of:
  - i) compulsory subjects required for the Bachelor of Commerce;
  - ii) an approved Commerce major except for a Business Law major; and
  - iii) subjects with a value of at least 90 credit points, consisting of (i) and (ii) and excluding subjects listed in (a) and (b), except,
  - iv) where the subjects in (i) and (ii) have the prefix LAW, the equivalent LLB subjects must be substituted.

## Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Commerce Schedule	Autumn/Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from Commerce Schedule	Autumn/ Spring	30
<b>PLUS</b>		
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB392 Communication Skills	Autumn*	2
LLB308 Public Law A	Autumn	8
LLB309 Public Law B	Spring	8
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
<b>Third Year</b>		
Subjects from Commerce Schedule	Autumn/ Spring	24
<b>PLUS</b>		
LLB305 Property and Trusts A	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB311 Lawyers and Australian Society	Autumn*	8
LLB306 Property and Trusts B	Spring	8
<b>Fourth Year</b>		
LLB300 Remedies and Procedure	Autumn	8
LLB302 Law of Business Organisations	Autumn	8
LLB393 Drafting Skills	Autumn*	2
LLB301 Evidence	Spring	8
2 LLB Electives	Spring	16
<b>Fifth Year</b>		
3 LLB Electives	Autumn	24
LLB312 Legal Theory	Spring	8
2 LLB Electives	Spring	16

\* Available Autumn and Spring

## Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Commerce Schedule for majors available in the Bachelor of Commerce course.

## Electives

Students must successfully complete elective subjects to the value of **56 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws - 3 year course.

## Honours

See Bachelor of Laws - 3 year course.

## Bachelor of Science / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Science/ Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BSc/LLB

## Course Information

Home Faculty:	Faculty of Law
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	266*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	775
UAC Code:	751207
CRICOS Code:	006872C (Science) or 029274B (HBS)

\* This is a minimum figure and may vary depending on major.

## Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BSc/LLB degree provides opportunities for students to combine their knowledge of law with scientific disciplines in addressing issues such as environmental planning, or those arising from the introduction of new technology.

For the first three years of the double degree, students enrol substantially in subjects offered by the other faculty combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

## Entry Requirements / Assumed Knowledge

For the Bachelor of Laws:

Assumed knowledge: Any two units of English.

Recommended Studies: English Advanced.

For the Bachelor of Science: refer to relevant faculty for entry requirements.

## Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

To qualify for the award of the degrees of Bachelor of Science / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- a) all compulsory Law subjects;
- b) elective subjects to the value of 56 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- c) subjects having a value of at least 90 credit points including a major study which shall:
  - i) be selected from either the Science Schedule, or the Health and Behavioural Sciences Schedule; and
  - ii) include no more than 48 credit points for 100-level subjects or a prescribed Environmental Science program of study having a value of 92 credit points

## Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Science or Health & Behavioural Sciences Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from Science or Health & Behavioural Sciences Schedule	Autumn and Spring	30
<b>PLUS</b>		
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB392 Communication Skills	Autumn*	2
LLB308 Public Law A	Autumn	8
LLB309 Public Law B	Spring	8
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
<b>Third Year</b>		
Subjects from Science or Health & Behavioural Sciences Schedule	Autumn and Spring	24
<b>PLUS</b>		
LLB305 Property and Trusts A	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB311 Lawyers and Australian Society	Autumn*	8



LLB306	Property and Trusts B	Spring	8
<b>Fourth Year</b>			
LLB300	Remedies and Procedure	Autumn	8
LLB302	Law of Business Organisations	Autumn	8
LLB393	Drafting Skills	Autumn*	2
LLB301	Evidence	Spring	8
2 LLB Electives		Spring	16
<b>Fifth Year</b>			
3 LLB Electives		Autumn	24
LLB312	Legal Theory	Spring	8
2 LLB Electives		Spring	16
* Available Autumn and Spring			

## Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Science or Health and Behavioural Sciences Schedule for majors.

## Electives

Students must successfully complete elective subjects in the LLB Schedule having a value of **56 credit points**.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws - 3 year course.

## Honours

See Bachelor of Laws - 3 year course.

## Bachelor of Medical Science / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Medical Science Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BMedSc/LLB
Home Faculty:	Faculty of Law
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	266*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	775M
UAC Code:	751209
CRICOS Code:	036542F

\* This is a minimum figure and may vary depending on major.

## Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BMedSc/LLB degree provides opportunities for students with an interest in the application of the law to medical contexts, including medical ethics and bioethics.

For the first three years of the double degree, students enrol substantially in subjects offered by the other faculty combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

## Entry Requirements / Assumed Knowledge

For the Bachelor of Laws:

Assumed Knowledge: Any two units of English.

Recommended Studies: English Advanced.

For the Bachelor of Medical Science:

Refer to Faculty of Health and Behavioural Sciences for entry requirements.

## Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

To qualify for the award of the degrees of Bachelor of Medical Science / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- (a) all compulsory Law subjects;
- (b) elective subjects to the value of 56 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- (c) general elective subjects having a value of at least 90 credit points forming a Medical Science major study which must:
  - (i) be selected from the Health and Behavioural Sciences Schedule of Subjects;
  - (ii) include no more than 48 credit points for 100-level subjects; and
  - (iii) include at least 24 credit points for 300-level subjects.

## Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Health & Behavioural Sciences Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from Health & Behavioural Sciences Schedule	Autumn and Spring	30
<b>PLUS</b>		
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB392 Communication Skills	Autumn*	2
LLB308 Public Law A	Autumn	8
LLB309 Public Law B	Spring	8
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
<b>Third Year</b>		
Subjects from Health & Behavioural Sciences Schedule	Autumn and Spring	24
<b>PLUS</b>		
LLB305 Property and Trusts A	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB311 Lawyers and Australian Society	Autumn*	8
LLB306 Property and Trusts B	Spring	8
<b>Fourth Year</b>		
LLB300 Remedies and Procedure	Autumn	8
LLB302 Law of Business Organisations	Autumn	8
LLB393 Drafting Skills	Autumn*	2
LLB301 Evidence	Spring	8
2 LLB Electives	Spring	16
<b>Fifth Year</b>		
3 LLB Electives	Autumn	24
LLB312 Legal Theory	Spring	8
2 LLB Electives	Spring	16

\* Available Autumn and Spring

## Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Health and Behavioural Sciences Schedule for majors.

## Electives

Students must successfully complete elective subjects to the value of **56 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws – 3 year course.

## Honours

See Bachelor of Laws – 3 year course.

## Bachelor of Creative Arts / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Creative Arts/ Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BCA/LLB
Home Faculty:	Faculty of Law
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	276*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	772
UAC Code:	751204
CRICOS Code:	005068F

\* This is a minimum figure and may vary depending on major.

### Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BCA/LLB degree allows students to combine studies in the creative arts, such as creative writing, graphic design, sound, composition, performance or visual arts with studies in law. Many lawyers find that a knowledge of the arts and media is extremely useful in their practice.

For the first three years of the double degree, students enrol substantially in subjects offered by the Faculty of Creative Arts combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

### Entry Requirements / Assumed Knowledge

Assumed Knowledge: Any two units of English.

Recommended Studies: English Advanced.

Additional selection criteria applies for the Bachelor of Creative Arts. In addition to applying to UAC, students must submit an interview/audition application form to the Faculty of Creative Arts. For further information refer to the UAC Guide.

### Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

### Course Requirements

To qualify for the award of the degrees of Bachelor of Creative Arts / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- all compulsory Law subjects;
- elective subjects to the value of 48 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- a major study (comprising 108 credit points) as approved by Creative Arts.

### Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Creative Arts schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from Creative Arts schedule	Autumn and Spring	36
<b>PLUS</b>		

## Course Information

LLB304	Criminal Law and the Process of Justice	Autumn	8
LLB392	Communication Skills	Autumn*	2
LLB391	Dispute Management Skills	Spring	2
LLB394	Advocacy Skills	Spring	2
<b>Third Year</b>			
Subjects from Creative Arts schedule		Autumn and Spring	36
<b>PLUS</b>			
LLB305	Property and Trusts A	Autumn	8
LLB307	Law of Torts	Autumn	8
LLB306	Property and Trusts B	Spring	8
<b>Fourth Year</b>			
LLB300	Remedies and Procedure	Autumn	8
LLB302	Law of Business Organisations	Autumn	8
LLB308	Public Law A	Autumn	8
LLB311	Lawyers and Australian Society	Autumn*	8
LLB393	Drafting Skills	Autumn*	2
LLB301	Evidence	Spring	8
LLB309	Public Law B	Spring	8
1 LLB Elective		Spring	8
<b>Fifth Year</b>			
3 LLB Electives		Autumn	24
LLB312	Legal Theory	Spring	8
2 LLB Electives			16

\* Available Autumn and Spring

## Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Creative Arts schedule for majors available in the Bachelor of Creative Arts degree.

## Electives

Students must successfully complete elective subjects to the value of **48 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws – 3 year course.

## Honours

See Bachelor of Laws – 3 year course.

## Bachelor of Mathematics / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Mathematics/ Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BMath/LLB
Home Faculty:	Faculty of Law
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	276*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	774
UAC Code:	751206
CRICOS Code:	005069E

\* This is a minimum figure and may vary depending on major.

## Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BMath/LLB offers opportunities for students with and aptitude for, and an interest in, mathematics.

For the first three years of the double degree, students enrol substantially in subjects offered by the Faculty of Informatics combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

## Entry Requirements / Assumed Knowledge

For the Faculty of Law:

Assumed knowledge: Any two units of English.

Recommended Studies: English Advanced.

*For the Bachelor of Mathematics, refer to Faculty of Informatics.*

### Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

### Course Requirements

To qualify for the award of the degrees of Bachelor of Mathematics / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b), (c) and (d) as follows:

- all compulsory Law subjects;
- elective subjects to the value of 48 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- subjects selected from either or both of the Mathematics Schedule or the General Schedule having a value of at least 108 credit points, including a major study in Mathematics;
- satisfy the requirements prescribed for the Bachelor of Mathematics degree.

### Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Mathematics Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from Mathematics Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB392 Communication Skills	Autumn*	2
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
<b>Third Year</b>		
Subjects from Mathematics Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB305 Property and Trusts A	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB306 Property and Trusts B	Spring	8
<b>Fourth Year</b>		
LLB300 Remedies and Procedure	Autumn	8
LLB302 Law of Business Organisations	Autumn	8
LLB308 Public Law A	Autumn	8
LLB311 Lawyers and Australian Society	Autumn*	8
LLB393 Drafting Skills	Autumn*	2
LLB301 Evidence	Spring	8
LLB309 Public Law B	Spring	8
1 LLB Elective	Spring	8
<b>Fifth Year</b>		
3 LLB Electives	Autumn	24
LLB312 Legal Theory	Spring	8
2 LLB Electives	Spring	16

\* Available Autumn and Spring

### Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Mathematics Schedule for majors available in the Bachelor of Mathematics course.

### Electives

Students must successfully complete elective subjects to the value of **48 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

### Elective Law Subjects

See Bachelor of Laws - 3 year course

## Honours

See Bachelor of Laws – 3 year course.

## Bachelor of Computer Science / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Computer Science/ Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BCompSc/LLB
Home Faculty:	Faculty of Law
Duration:	5 years full-time or part-time equivalent
Total Credit Points:	276*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	776
UAC Code:	751203
CRICOS Code:	012093B

\* This is a minimum figure and may vary depending on major.

## Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BCompSc/LLB offers opportunities for students to undertake a specialised degree of study in computer science and law.

For the first three years of the double degree, students enrol substantially in subjects offered by the Faculty of Informatics combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

## Entry Requirements / Assumed Knowledge

*For the Faculty of Law:*

Assumed knowledge: Any two units of English.

Recommended Studies: English Advanced.

*Refer to Faculty of Informatics for entry requirements for the Bachelor of Computer Science.*

## Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

To qualify for the award of the degrees of Bachelor of Computer Science / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- a) all compulsory Law subjects;
- b) elective subjects to the value of 48 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- (c) subjects selected from either or both of the Computer Science Schedule or the General Schedule having a value of at least 108 credit points, including:
  - (i) 72 credit points of computer science core subjects, as listed in the Computer Science course structure;
  - (ii) an additional 24 credit points of 300-level subjects, of which 12 credit points must be CSCI subjects;
  - (iii) Elective subjects chosen from the Computer Science Schedule and/or the General Schedule to the value of 12 credit points;
  - (v) no more than 24 credit points (ie 1/6) of subjects at PC grade;
  - (vi) at least 24 credit points of 300-level subjects, including CSCI321, at pass grade or better.

## Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Computer Science Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6

LLB210	Law of Contracts	Spring	8
<b>Second Year</b>			
Subjects from Computer Science Schedule		Autumn and Spring	36
<b>PLUS</b>			
LLB304	Criminal Law and the Process of Justice	Autumn	8
LLB392	Communication Skills	Autumn*	2
LLB391	Dispute Management Skills	Spring	2
LLB394	Advocacy Skills	Spring	2
<b>Third Year</b>			
Subjects from Computer Science Schedule		Autumn and Spring	36
<b>PLUS</b>			
LLB305	Property and Trusts A	Autumn	8
LLB307	Law of Torts	Autumn	8
LLB306	Property and Trusts B	Spring	8
<b>Fourth Year</b>			
LLB300	Remedies and Procedure	Autumn	8
LLB302	Law of Business Organisations	Autumn	8
LLB308	Public Law A	Autumn	8
LLB311	Lawyers and Australian Society	Autumn *	8
LLB393	Drafting Skills	Autumn*	2
LLB301	Evidence	Spring	8
LLB309	Public Law B	Spring	8
1 LLB Elective		Spring	8
<b>Fifth Year</b>			
3 LLB Electives		Autumn	24
LLB312	Legal Theory	Spring	8
2 LLB Electives		Spring	16
* Available Autumn and Spring			

## Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Computer Science Schedule for majors available in the Bachelor of Computer Science degree.

## Electives

Students must successfully complete elective subjects to the value of **48 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws – 3 year course.

## Honours

See Bachelor of Laws – 3 year course.

## Bachelor of Information and Communication Technology / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Information and Communication Technology/ Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BInfoTech/LLB
Home Faculty:	Faculty of Law
Duration:	5.5 years full-time or part-time equivalent
Total Credit Points:	310*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	778
UAC Code:	751205
CRICOS Code:	016114C

\* This is a minimum figure and may vary depending on major.

## Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BInfoTech/LLB allows students to combine an interest in information technology and law.

For the first four years of the double degree, students enrol substantially in subjects offered by the Faculty of Informatics combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

## Entry Requirements / Assumed Knowledge

*For the Faculty of Law:*

- Assumed knowledge: Any two units of English.
- Recommended Studies: English Advanced.

*Refer to Faculty of Informatics for entry requirements for the Bachelor of Information and Communication Technology.*

## Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

To qualify for the award of the degrees of Bachelor of Information and Communication Technology / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- a) all compulsory Law subjects;
- b) elective subjects to the value of 40 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;
- c) all requirements as prescribed for the Bachelor of Information and Communication Technology.

## Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Information and Communication Technology Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from Information and Communication Technology Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB392 Communication Skills	Autumn*	2
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
<b>Third Year</b>		
Subjects from Information and Communication Technology Schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB305 Property and Trusts A	Autumn	8
LLB306 Property and Trusts B	Spring	8
<b>Fourth Year</b>		
Subjects from Information and Communication Technology Schedule	Autumn and Spring	42
<b>PLUS</b>		
1 LLB Elective	Autumn	8
No LLB subjects	Spring	0
<b>Fifth Year</b>		
LLB302 Law of Business Organisations	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB308 Public Law A	Autumn	8
LLB311 Lawyers and Australian Society	Autumn*	8
1 LLB Elective	Autumn	8
LLB301 Evidence	Spring	8
LLB309 Public Law B	Spring	8
LLB312 Legal Theory	Spring	8
<b>Sixth Year</b>		
LLB300 Remedies and Procedure	Autumn	8
LLB393 Drafting Skills	Autumn*	2
3 LLB Electives	Autumn	24
* Available Autumn and Spring		



## Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Information and Communication Technology Schedule for majors.

## Electives

Students must successfully complete elective subjects to the value of **40 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws – 3 year course.

## Honours

See Bachelor of Laws – 3 year course.

## Bachelor of Engineering / Bachelor of Laws

Testamur Title of Degree:	Bachelor of Engineering/ Bachelor of Laws (a separate testamur is awarded for each degree)
Abbreviation:	BE/LLB
Home Faculty:	Faculty of Law
Duration:	5.5 years full-time or part-time equivalent
Total Credit Points:	322*
Delivery Mode:	On-campus
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	779
UAC Code:	751208
CRICOS Code:	036465C

\* This is a minimum figure and may vary depending on major.

## Overview

Students commencing University study directly from school must enrol in a double degree course with the Bachelor of Laws. Study in another academic discipline allows students to recognise how law functions in social, economic, technical, environmental and scientific contexts. The BE/LLB degree allows students to recognise how law functions in technical contexts.

For the first four years of the double degree, students enrol substantially in subjects offered by the Faculty of Informatics combined with a small number of Law subjects. In the final two years of the degree, students enrol exclusively in Law subjects, including a range of law elective options.

## Entry Requirements / Assumed Knowledge

*For the Faculty of Law:*

Assumed Knowledge: Any two units of English.

Recommended Studies: English Advanced.

*Refer to Faculty of Engineering for entry requirements.*

## Advanced Standing

Students may apply for advanced standing for relevant subjects completed at approved tertiary institutions. Refer to <http://www.uow.edu.au/handbook/courserules/advancedstanding.html>

## Course Requirements

To qualify for the award of the degrees of Bachelor of Engineering / Bachelor of Laws a candidate must complete, satisfactorily and independently, each of (a), (b) and (c) as follows:

- a) all compulsory Law subjects;
- b) elective subjects to the value of 40 credit points from the LLB Schedule. To be eligible for the award of Honours, candidates must complete either LLB313 or LLB314;

- c) a major study (comprising 162 credit points) as prescribed by the Faculty of Engineering. All students should discuss their Engineering program with the relevant Course Coordinator.

## Course Program

Subjects (by year)	Session	Credit Points
<b>First Year</b>		
Subjects from Engineering schedule	Autumn and Spring	36
<b>PLUS</b>		
LLB100 Foundations of Law A	Autumn	6
LLB110 Legal Research and Writing	Autumn	4
LLB200 Foundations of Law B	Spring	6
LLB210 Law of Contracts	Spring	8
<b>Second Year</b>		
Subjects from Engineering schedule	Autumn and Spring	48
<b>PLUS</b>		
LLB304 Criminal Law and the Process of Justice	Autumn	8
LLB392 Communication Skills	Autumn*	2
LLB391 Dispute Management Skills	Spring	2
LLB394 Advocacy Skills	Spring	2
<b>Third Year</b>		
Subjects from Engineering schedule	Autumn and Spring	42
<b>PLUS</b>		
LLB305 Property and Trusts A	Autumn	8
LLB306 Property and Trusts B	Spring	8
<b>Fourth Year</b>		
Subjects from Engineering schedule	Autumn and Spring	36
<b>PLUS</b>		
1 LLB Elective	Autumn	8
1 LLB Elective	Spring	8
<b>Fifth Year</b>		
LLB302 Law of Business Organisations	Autumn	8
LLB307 Law of Torts	Autumn	8
LLB308 Public Law A	Autumn	8
LLB311 Lawyers and Australian Society	Autumn*	8
1 Elective	Autumn	8
LLB301 Evidence	Spring	8
LLB309 Public Law B	Spring	8
LLB312 Legal Theory	Spring	8
<b>Sixth Year</b>		
LLB300 Remedies and Procedure	Autumn	8
LLB393 Drafting Skills	Autumn*	2
2 LLB Electives	Autumn	16

\*Available Autumn and Spring

## Majors

Majors are NOT available in the Bachelor of Laws course. Refer to the Engineering Schedule for majors available in the Bachelor of Engineering degree.

## Electives

Students must successfully complete elective subjects to the value of **40 credit points** from the LLB Schedule.

NOTE: LLB 396 Advanced Legal Skills is a pre-requisite for entry to the Practical Legal Training Course at this University.

## Elective Law Subjects

See Bachelor of Laws – 3 year course.

## Honours

See Bachelor of Laws – 3 year course.

# Faculty of Science

## Member Units

School of Biological Sciences  
Department of Chemistry  
School of Earth and Environmental Sciences

## Degrees Offered

Bachelor of Science  
Bachelor of Science (Honours)  
Bachelor of Science - Advanced (Honours)  
Bachelor of Marine Science  
Bachelor of Marine Science - Advanced (Honours)  
Bachelor of Marine Science (Honours)  
Bachelor of Biotechnology  
Bachelor of Biotechnology - Advanced  
Bachelor of Environmental Science  
Bachelor of Environmental Science - Advanced  
Bachelor of Medicinal Chemistry  
Bachelor of Medicinal Chemistry - Advanced  
Bachelor of Nanotechnology  
Bachelor of Nanotechnology - Advanced

## Double Degrees:

Bachelor of Science - Bachelor of Arts  
Bachelor of Science - Bachelor of Commerce  
Bachelor of Science - Bachelor of Mathematics  
Bachelor of Science - Bachelor of Laws (see Faculty of Law)  
Bachelor of Computer Science - Bachelor of Science (see Faculty of Informatics)  
Bachelor of Creative Arts - Bachelor of Science (see Faculty of Creative Arts)  
Bachelor of Engineering - Bachelor of Science (see Faculty of Engineering)

For tuition fee information please see the following:

Domestic - <http://www.uow.edu.au/student/finances/studentcontributions.html>  
International - <http://www.uow.edu.au/prospective/international/fees/>

This publication contains information which is current at December 2004. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

## Faculty of Science Rules

All students enrolled in Faculty of Science degrees should note that:

1. they must satisfy the minimum mathematics requirement for all degrees offered by the Faculty of Science as set out in the Course Rules; (only candidates majoring in Human Geography are exempted from this rule)
2. a Pass or Pass Conceded grade (not a Pass Restricted grade) is required in a pre-requisite subject to progress to a higher level subject in disciplines within the Faculty of Science unless that pre-requisite is waived by a Head of the Academic Unit for a particular student in special circumstances;
3. a Pass Conceded grade in a 300-level subject forming part of a Science major may not be counted towards the completion of the major.

Note: Students may obtain a copy of the Science Students' Guide from the Faculty Office, Room No. 41.258.

## Bachelor of Science

Testamur Title of Degree:	Bachelor of Science
Abbreviation:	BSc
Home Faculty:	Science
Duration:	3 years full time or part time equivalent
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	742
UAC Code:	757621
CRICOS Code:	003283D

### Overview

Students may gain a comprehensive education in Science by selecting a major study and a range of elective subjects. The major studies areas are Biological Sciences, Chemistry, Human Geography, Physical Geography, Geology and Geosciences. Other interdisciplinary majors are Biotechnology, Ecology, Environment, Land and Heritage Management, Medicinal Chemistry and Nanotechnology.

The flexible structure of the major and electives allows students to design their study program to meet their particular interests and abilities. Students may combine their chosen Science major with a second major in Science, or a major chosen from outside the Faculty, or with a range of elective subjects.

### Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 80 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Four units of science or four units comprising science and mathematics. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 are required to take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

### Course Requirements

Bachelor of Science requirements fall into one of three categories, as follows:

1. a) At least one major chosen from disciplines located in the Faculty of Science. A major study consists of at least 90 credit points from the Science Schedule (see list of subjects at the end of this degree entry) of which at least 60 credit points are from one of the Faculty of Science disciplines: Biological Sciences, Chemistry, Human Geography, Physical Geography, Geology, Geosciences.

The balance of 54 credit points (to a degree total of 144) may be chosen from either the Science Schedule or General Schedule and may include a second major or a selection of complementary or contrasting subjects, or other subjects with the approval of the Dean or Associate Dean.

- b) One major from within the Faculty of Science and a co-major from outside the Faculty. Approved co-majors are: Biomedical Sciences, Computer Science, Human Resource Management, Management, Marketing, Mathematics/Applied Statistics, Nutrition, Physics, Psychology. In this category, where an approved major is combined with a Science major, the requirement of at least 90 credit points from the Science Schedule is waived.

- An approved major from outside of the Faculty combined with a minor from within the Faculty. A minor is defined as comprising at least 12 credit points of 100-level and 32 credit points of 200-level and/or 300-level subjects from one of the Science Academic Units: Biological Sciences, Chemistry or Geosciences. The allowed external majors are Computer Science, Mathematics/Applied Statistics, Physics, Psychology.

Note: Students wishing to undertake a major program involving a discipline outside of the Faculty of Science as in 1(b) and 2 above, must first obtain the approval of the Head of the relevant Department or School and verify their planned study program. Recommended major programs can be obtained from the Faculty of Science Office in room 41.258.

- One of the six interdisciplinary, prescribed majors, as follows (see separate course entry for each): Biotechnology, Ecology, Environment, Land and Heritage Management, Medicinal Chemistry, Nanotechnology

For the Bachelor of Science (Physics): Refer to the Faculty of Engineering.

*Note: The Science Schedule list of subjects is provided at the end of this degree entry. The General Schedule is provided in the Course Structures.*

## Honours

Students with a good academic record, particularly in third year are encouraged to proceed to the Honours year in the discipline of their major. The Honours year is a fourth year of study that provides a training in independent research.

## Major Study Areas

### Biological Sciences

The general aim of the degree courses offered by the School of Biological Sciences is to provide students, regardless of previous background, with a basic understanding of the major principles, concepts and technologies of modern Biology. A major in Biological Sciences can be taken in the fields of biochemistry, molecular biology, cell biology, immunology, comparative physiology, terrestrial ecology, marine biology, evolutionary biology and environmental biology.

### Major Study

First year (BIOL103, 104) is a general, self-contained introduction to Biology as well as essential background for future years. Students wishing to major in Biological Sciences must also take both first year Chemistry subjects. Students are required to take four 200-level Biological Sciences subjects selected from the seven available. Note prerequisites for 3rd Year subjects when selecting the combination of 2nd Year subjects. Students proceeding to a Biological Sciences major are strongly encouraged to take more than the minimum array of Biological Sciences subjects, especially at second year. All students majoring in Biological Sciences must take at least three 300-level subjects that form a coherent course of study. Approved subject combinations are (i) BIOL320, 321, and one of BIOL303, 332, CHEM320 (ii) BIOL351, 355 and BIOL332. Other subject combinations are possible and should be discussed with the Head of Department.

### Second Majors

Second majors with other Departments are also available. In particular, students interested in Biochemistry may take a second major in Chemistry; students interested in Ecology should consider a second major in Physical Geography; and students interested in comparative physiology should consider subjects from the Health and Behavioural Sciences schedule.

Subjects		Session	Credit Points
<b>100-Level</b>			
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity and Environment	Autumn	6
CHEM101	Chemistry 1A (or CHEM104 Chemistry 1D)	Autumn	6
CHEM102	Chemistry 1B (or CHEM105 Chemistry 1E)	Spring	6
Total for major at 100-level			24
MATH151	General Mathematics 1A (if required)	Autumn/Summer	6
Note: Students wishing to take MARE200 and MARE300 should note that one of EESC102 Earth Environments and Resources or EESC112 Landscape Change and Climatology is required as a prerequisite.			
<b>200-Level</b>			
24 credit points from the following Biological Sciences subjects plus Statistics			
BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	The Biochemistry of Energy & Metabolism	Spring	6
BIOL215	Introductory Genetics	Spring	6
BIOL240	Functional Biology of Plants & Animals	Autumn	6
BIOL241	Biodiversity: Classification and Sampling	Spring	6
BIOL251	Principles of Ecology and Evolution	Autumn	6

MARE200	Introduction to Oceanography	Autumn	6
STAT252	Statistics for Natural Sciences	Spring	6
Total for major at 200-level			30

### 300-Level

An approved combination of at least 24 credit points from the following:

BIOL303	Biotechnology: Applied Molecular and Cell Biology	Autumn	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
BIOL320	Molecular Cell Biology	Autumn	8
BIOL321	Cellular and Molecular Immunology	Spring	8
BIOL332	Ecological and Evolutionary Physiology	Autumn	8
BIOL351	Conservation Biology: Marine and Terrestrial Populations	Autumn	8
BIOL355	Marine and Terrestrial Ecology	Spring	8
MARE300	Fisheries and Aquaculture	Spring	8
Total for major at 300-level			24

Sub-total for major **78**

Plus additional subjects chosen from the Science Schedule **12**

**90**

Plus elective subjects chosen from the Science or General Schedules **54**

The above degree structure must include a minimum of 32 credit points at 300-level

**Degree Total 144**

### 400-Level -- Honours

BIOL401	Biology Honours	Annual	48
BIOL402	Biology Joint Honours	Annual	24

## Other Information

Notes on Biological Sciences major.

1. A fourth Biological Sciences 200-level subject may be waived for students taking both a Biological Sciences major and a major from the School of Geosciences.
2. A Mathematics or Statistics subject acceptable to the Department of Biological Sciences may be substituted for STAT252.
3. STAT252 may be waived for some programs combining 300-level Biological Sciences and another approved discipline.

Advanced Biology Project (BIOL392) is an 8-credit point project-based subject and Advanced Biology (BIOL391) is a 16-credit point project-based subject. These two subjects are available for high-quality students wishing to complement their coursework with research projects. Entry into these subjects is by permission of the Coordinator and requires good performance (usually Distinction average) in four 200-level Biological Sciences subjects.

An elective subject, MARE357 - Advances in Molluscan Biology, is offered in Summer Session for students wishing to gain additional field experience.

## Chemistry

Chemistry is the study of the molecular nature of all matter and its interactions. The relationship between its structure and a molecule's properties and reactivity give chemistry an essential, central position in science and technology. An understanding of chemistry is needed for the full gamut of technology-based disciplines from solid-state physics and astrophysics to molecular biology and the life sciences; from geochemistry and environmental science to engineering and health sciences. Completion of this major qualifies graduates for membership of the Royal Australian Chemical Institute.

### Major Study

A major in chemistry consists of two core 100 level subjects, and four core 200 level subjects, and an approved combination of 300 level subjects offered by the Department of Chemistry, with a value of at least 24 credit points.

Students may use their elective credit points to complete a second major in another discipline.

Subjects	Session	Credit Points
----------	---------	---------------

<b>100-Level</b>			
CHEM101	Chemistry 1A (or CHEM104 Chemistry 1D)	Autumn	6
CHEM102	Chemistry 1B (or CHEM105 Chemistry 1E)	Spring	6
Total for major at 100-level			<b>12</b>
<b>200-Level</b>			
CHEM211	Inorganic Chemistry II	Autumn	6
CHEM212	Organic Chemistry II	Autumn	6
CHEM213	Molecular Structure, Reactivity & Change	Spring	6
CHEM214	Analytical & Environmental Chemistry II	Spring	6
Total for major at 200-level			<b>24</b>
<b>300-Level</b>			
At least three subjects taken from the following list:			
CHEM301	Advanced Materials and Nanotechnology	Spring	8
CHEM314	Instrumental Analysis	Autumn	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
CHEM321	Organic Synthesis and Reactivity	Spring	8
CHEM327	Environmental Chemistry	Autumn	8
CHEM340	Chemistry Laboratory Project	Annual	8
CHEM364	Molecular Structure and Spectroscopy	Autumn	8
Total for major at 300-level			<b>24</b>
Sub-total for major			<b>60</b>
Plus additional subjects chosen from the Science Schedule			<b>30</b>
			<b>90</b>
Plus elective subjects chosen from the Science or General Schedules			<b>54</b>
<b>Note:</b> The above degree structure must include a minimum of 32 credit points at 300-level			
<b>Degree Total</b>			<b>144</b>
<b>400-Level - Honours</b>			
CHEM401	Chemistry Honours	Annual	48
CHEM402	Chemistry Honours Part 1 for Part time students	Autumn	24
CHEM403	Chemistry Honours Part 2 for Part time students	Spring	24
CHEM405	Chemistry Joint Honours	Annual	24

### Other Information

The Department offers a third year research subject CHEM340 to students with a good academic record (usually a credit average or better) who wish to gain experience in research. Entry into this subject is by permission of the Head of Department.

### Human Geography

Human Geography encompasses the study of human societies and human environments. Understanding and helping to resolve conflicts and crises makes Human Geography an immediately socially-relevant discipline. Human Geographers make an essential contribution to environmental management, urban planning, and the management of social and economic change. A human geography major may be usefully combined with a physical geography major.

Subjects		Session	Credit Points
100-Level			
EESC103	Landscape Change and Climatology	Autumn	6
EESC104	The Human Environment: Problems and Change	Spring	6
Total for major at 100-level			12
Recommended electives:			
EESC101	Planet Earth	Autumn	6
EESC102	Earth Environments and Resources	Spring	6
200-Level			
EESC205	Population Studies	Autumn	6
EESC210	Social Spaces: rural and urban	Spring	6
Plus at least two other subjects chosen from Earth and Environmental Sciences schedule at 200-level.			
Recommended options include:			
EESC204	Introductory Spatial Science	Spring	6
EESC206	Discovering Downunder: A Geography of Australia	Spring	6
EESC208	Environmental Impact of Societies	Spring	6

Total for major at 200-level			24
<b>300-Level</b>			
EESC307	Spaces, Places and Identities	Autumn	8
EESC308	Environmental and Heritage Management	Spring	8
Plus at least one other subject chosen from Earth and Environmental Sciences schedule at 300-level. Recommended options include:			
EESC305	Remote Sensing of the Environment	Autumn	8
EESC304	Geographic Information Science	Spring	8
EESC310	Water Resources and Management	Spring	8
Total for major at 300-level			24
Total for major			60
Plus additional subjects chosen from the Science Schedule			30
			90
Plus elective subjects chosen from the Science or General Schedules			54
<b>Note:</b> The above degree structure must include a minimum of 32 credit points at 300-level			
<b>Degree Total</b>			<b>144</b>

### Other Information

Students are encouraged to choose elective subjects from the arts and social sciences, such as history, economics and sociology.

### Physical Geography

Physical Geography is the study of patterns and processes in the environment caused by the forces of nature. It examines the environmental and ecological problems facing the world, and provides the skills and knowledge to assist in managing them. A Physical Geography major could be combined with a Human Geography major or a Geology major.

Subjects		Session	Credit Points
<b>100-Level</b>			
EESC101	Planet Earth	Autumn	6
EESC103	Landscape Change and Climatology	Autumn	6
Total for major at 100-level			12
Recommended electives:			
EESC102	Earth Environments and Resources	Spring	6
EESC104	The Human Environment: Process and Change	Spring	6
<b>200-Level</b>			
EESC203	Biogeography and Environmental Change	Autumn	6
EESC202	Soils, Landscape and Hydrology	Spring	6
Plus at least two other subjects chosen from Earth and Environmental Sciences schedule at 200-level. Recommended options include:			
EESC204	Introductory Spatial Science	Spring	6
EESC206	Discovering Downunder: A Geography of Australia	Spring	6
EESC208	Environmental Impact of Societies	Spring	6
EESC250	Field Geology	Summer	6
Total for major at 200-level			24
<b>300-Level</b>			
EESC303	Fluvial Geomorphology and Sedimentology	Autumn	8
EESC302	Coastal Environments: Process & Management	Spring	8
Plus at least one other subject chosen from Earth and Environmental Sciences schedule at 300-level. Recommended options include:			
EESC305	Remote Sensing of the Environment	Autumn	8
EESC304	Geographic Information Science	Spring	8
EESC310	Water Resources and Management	Spring	8
Total for major at 300-level			24
Total for major			60
Plus additional subjects chosen from the Science Schedule			30
			90
Plus elective subjects chosen from the Science or General Schedules			54
<b>Note:</b> The above degree structure must include a minimum of 32 credit points at 300-level			
<b>Degree Total</b>			<b>144</b>



### Geology

Geology is the study of the earth, the materials of which it is made, the processes that act on these materials, the products formed and the history of the planet and its life forms. Areas of specialised study include economic geology (coal, petroleum, uranium); geophysics; palaeontology; sedimentology; structural geology; stratigraphy; tectonics; volcanology and geochemistry. A Geology major can be combined with a second major in Physical Geography.

Subjects	Session	Credit Points
<b>100-Level</b>		
EESC101 Planet Earth	Autumn	6
EESC102 Earth Environments and Resources	Spring	6
Total for major at 100-level		12
Recommended electives:		
EESC103 Landscape Change and Climatology	Autumn	6
EESC104 The Human Environment: Problems and Change	Spring	6
<b>200-Level</b>		
EESC201 Earth Surface Processes and Products	Autumn	6
EESC202 Soils, Landscape and Hydrology	Spring	6
Plus at least two other subjects chosen from Earth and Environmental Sciences schedule at 200-level.		
Recommended options include:		
EESC204 Introductory Spatial Science	Spring	6
EESC203 Biogeography and Environmental change	Autumn	6
EESC208 Environmental Impact of Societies	Spring	6
EESC250 Field Geology	Summer	6
Total for major at 200-level		24
<b>300-Level</b>		
EESC301 Plate Tectonics, Macrotopography and Earth History	Autumn	8
EESC306 Resources and Environments	Spring	8
Plus at least one other subject chosen from Earth and Environmental Sciences schedule at 300-level.		
Recommended options include:		
EESC305 Remote Sensing of the Environment	Autumn	8
EESC304 Geographic Information Science	Spring	8
EESC310 Water Resources and Management	Spring	8
Total for major at 300-level		24
Total for major		60
Plus additional subjects chosen from the Science Schedule		30
		90
Plus elective subjects chosen from the Science or General Schedules		54
<b>Note:</b> The above degree structure must include a minimum of 32 credit points at 300-level		
<b>Degree Total</b>		<b>144</b>

### Geosciences

A major in Geosciences offers a combined program of study in the two disciplines of Geography or Geology.

#### **Subjects**

##### **100-Level**

At least two subjects chosen from Earth and Environmental Sciences subjects at 100-level

##### **200-Level**

At least four subjects chosen from Earth and Environmental Sciences subjects at 200-level

##### **300-Level**

At least three subjects chosen from Earth and Environmental Sciences subjects at 300-level

Plus additional subjects chosen from the Science Schedule totalling 30 credit points

Plus additional subjects chosen from the Science or General Schedule totalling 54 credit points

**Note:** The above degree structure must include a minimum of 32 credit points at 300-level

#### **Other Information**

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site:

[www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinator is the Associate Dean, Associate Professor Ted Bryant, 41.259.

## Science Schedule of Subjects

The following are subjects offered by the Academic Units in the Faculty of Science, as well as subjects from outside the Faculty, that can be counted towards the 90 credit points of Science subjects required for a Bachelor of Science degree. The required 90 credit points must include a major study (or in some cases a minor study) in a discipline located in the Faculty of Science. Only 60 credit points of 100-level subjects may be counted towards a degree.

### Biological Sciences

BIOL103	Molecules, Cells and Organisms	6
BIOL104	Evolution, Biodiversity and Environment	6
BIOL212	Introductory Microbiology and Immunology*	6
BIOL213	Principles of Biochemistry	6
BIOL214	The Biochemistry of Energy and Metabolism	6
BIOL215	Introductory Genetics	6
BIOL240	Functional Biology of Plants and Animals	6
BIOL241	Biodiversity: Classification and Sampling	6
BIOL251	Principles of Ecology and Evolution	6
MARE200	Introduction to Oceanography	6
BIOL292	Special Biology Studies	6
BIOL303	Biotechnology: Applied Cell and Molecular Biology	8
BIOL320	Molecular Cell Biology	8
BIOL321	Bioinformatics: from genome to structure	8
BIOL332	Ecological and Evolutionary Physiology	8
BIOL333	Frontiers in Field Physiology*	8
BIOL351	Conservation Biology: Marine and Terrestrial Populations	8
BIOL355	Marine and Terrestrial Ecology	8
MARE300	Fisheries and Aquacultures	8
MARE357	Advances in Molluscan Biology	8
BIOL391	Advanced Biology	8
BIOL392	Advanced Biology Project	8
MARE393	Advanced Marine Science Project	8

### Chemistry

CHEM101	Chemistry 1A: Intro. Physical and General Chemistry	6
CHEM102	Chemistry 1B: Intro. Organic and Physical Chemistry	6
CHEM104	Chemistry 1D (Introductory Chemistry)	6
CHEM105	Chemistry 1E (Introductory Chemistry)	6
NANO101	Current Perspectives in Nanotechnology	6
CHEM211	Inorganic Chemistry II	6
CHEM212	Organic Chemistry II	6
CHEM213	Molecular Structure, Reactivity and Change	6
CHEM214	Analytical and Environmental Chemistry II	6
CHEM218	Special Chemistry Studies	6
CHEM301	Advanced Materials and Nanotechnology	8
CHEM314	Instrumental Analysis	8
CHEM320	Bioinformatics: From Genome to Structure	8
CHEM321	Organic Synthesis and Reactivity	8
CHEM327	Environmental Chemistry	8
CHEM330	Medicinal Chemistry	8
CHEM340	Chemistry Laboratory Project	8
CHEM350	Principles of Pharmacology	8
CHEM364	Molecular Structure and Spectroscopy	8

### Earth and Environmental Sciences

EESC101	Planet Earth	6
EESC102	Earth Environments and Resources	6
EESC103	Landscape Change and Climatology	6
EESC104	The Human Environment: Problems & Change	6
MARE200	Introduction to Oceanography	6
EESC201	Earth Surface Processes and Products	6
EESC202	Soils, Landscapes and Hydrology	6
EESC203	Biogeography and Environmental Change	6
EESC204	Introductory Spatial Science	6
EESC205	Population Studies	6
EESC206	Discovering Downunder: a Geography of Australia	6
EESC208	Environmental Impact of Societies <sup>6</sup>	6
EESC210	Social Spaces: Rural and Urban	6
EESC250	Field Geology I	6
EESC260	Earth & Environmental Sciences Research Project	6
EESC301	Plate Tectonics, Macrotopography & Earth History	8

EESC302	Soils, Landscapes and Hydrology	8
EESC303	Fluvial Geomorphology and Sedimentology	8
EESC304	Geographic Information Science	8
EESC305	Remote Sensing of the Environment	8
EESC306	Resources and Environments	8
EESC307	Spaces Places and Identities	8
EESC308	Environmental & Heritage Management	8
EESC300	Directed Studies in Earth & Environmental Sciences A	8
EESC310	Water Resources and Management	8
EESC350	Directed Studies in Earth & Environmental Sciences B	8
ENVI391	Environmental Science	8

#### General Science

SCIE101	Modern Perspectives in Science	6
SCIE292	Science Research Internship	6
SCIE301	Directed Studies in Science	8

#### *Subjects offered by Academic Units external to the Faculty of Science:*

BMS101	Systemic Anatomy	6
BMS112	Human Physiology 1	6
BMS202	Human Physiology II: Control Mechanisms	6
BMS311	Nutrients and Metabolism	8
BMS312	Research in Human Nutrition Information Technology and Computer Science	8
CIVL272	Surveying	6
CIVL322	Hydraulics and Hydrology	6
CIVL361	Geomechanics 1	6
CIVL462	Geomechanics 2	6
CIVL463	Geomechanics 3	6
CSCI103	Algorithms and Problem Solving	6
CSCI114	Procedural Programming	6
ENGG252	Engineering Fluid Mechanics	6
ENVE220	Water Quality Engineering	6
ENVE221	Air and Noise Pollution	6
ENVE385	Environment Engineering	6
ENVE411	Aqueous and Atmospheric Chemistry	6
ENVE420	Water Engineering	6
INFO411	Data Mining and Knowledge Discovery	6
MATE201	Structure and Properties of Material	6
MATE304	Transport Phenomena in Materials Processes	6
MATH111	Applied Mathematical Modelling	6
MATH121	Discrete Mathematics	6
MATH141	Mathematics 1C Part 1	6
MATH142	Mathematics 1C Part 2	6
MATH161	Mathematics 1E Part 1	6
MATH162	Mathematics 1E Part 2	6
MATH187	Mathematics 1A Part 1	6
MATH188	Mathematics 1A Part 2	6
MATH151	General Mathematics IA	6
MATH201	Multivariate and Vector Calculus	6
MATH202	Differential Equations 2	6
MATH283	Mathematics 2E for Engineers Part 1	6
PHYS131	Physics for the Environmental and Life Sciences A	6
PHYS132	Physics for the Environmental and Life Sciences B	6
PHYS141	Fundamentals of Physics A	6
PHYS142	Fundamentals of Physics B	6
PHYS205	Modern Physics	6
PHYS206	Project in Physics	6
PHYS215	Vibrations, Waves and Optics	6
PHYS225	Electro Magnetism and Optoelectronics	6
PHYS233	Introduction to Environmental Physics	6
PHYS235	Mechanics and Thermodynamics	6
PHYS255	Radiation Physics	6
PHYS295	Astronomy: Concepts of the Universe	6
PHYS305	Quantum Mechanics	8
PHYS306	Project in Physics	8
PHYS325	Electromagnetism	8
PHYS335	Classical Mechanics	8

PHYS365	Detection of Radiation: Neutrons, Electrons and X Rays	8
PHYS375	Nuclear Physics	8
PHYS385	Statistical Mechanics	8
PHYS390	Astrophysics	8
PHYS396	Electronic Materials	8
POP204	Epidemiology	6
STAT151	Introduction of the Concepts and Practice of Statistics	6
STAT252	Statistics for the Natural Sciences	6
STAT335	Sample Surveys and Experimental Design	6

## Bachelor of Science Advanced (Honours)

Testamur Title of Degree:	Bachelor of Science Advanced (Honours)
Abbreviation:	BSc Adv (Hons)
Home Faculty:	Science
Duration:	4 years
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	741A
UAC Code:	757601
CRICOS Code:	052463E

### Overview

The Advanced Program, designed specifically for high achieving students, offers direct entry into Honours, unlike the normal BSc which delays selection for Honours until the completion of the third year.

It offers a greater degree of flexibility in program design through: the possibility of exemptions from some first year subjects\*; direct entry into some 200-level subjects; the opportunity to undertake individual research subjects at second, third and fourth year level; the opportunity to progress at a faster rate through the use of "fast tracking" mechanisms; the chance to participate in various enrichment activities and to develop a close association with an appropriate member of one of the Department's research teams. In the final year, all students undertake a substantial piece of supervised research in their major discipline together with other required seminar and/or course work.

\*Students must apply to be assessed for this exemption at enrolment. Assessment will be take place on the Thursday or Friday of Orientation Week, prior to the start of session.

### Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of at least 90 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Four units of science or four units comprising science and mathematics. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

BSc students with an exceptionally high level of performance in first year may enter the program on the recommendation of the Coordinator or Head of the Academic Unit or the invitation of the Dean. Transfer will not be considered before completion of the first year of the course and is based on at least a Distinction average (75%) taken over all subjects completed, and the approval of the Dean or Associate Dean.

### Course Requirements

Study programs are structured on an individual basis in consultation with the Head of Department or School. Students are required to fulfil all the normal BSc and Honours requirements and may select their major study program from any of those available within the Faculty (refer to the information under Bachelor of Science and Bachelor of Science (Honours)).

### Progression Requirements:

In order to maintain a place in an Advanced Science degree, students are normally required to achieve at least a Distinction average (75%) in the 200 and 300 level subjects completed. The performance of each student will be reviewed by the Associate Dean after the completion of 72 credit points. Students will be interviewed by the Associate Dean or their degree coordinator at the end of their first year to assess their progress.

## Honours

After fulfilling requirements for a Bachelor of Science, students automatically proceed to an Honours year in their chosen discipline.

## Major Study Areas

Please refer to the information contained in the entries for Bachelor of Science (742).

Students select a major from those available in the Faculty:

- Biological Sciences
- Chemistry
- Human Geography
- Physical Geography
- Geology
- Geosciences
- Ecology
- Environment
- Land and Heritage Management

## Other Information

Please note: Similar Advanced programs are also available to students wishing to undertake one of the specialist degrees: Bachelor of Biotechnology, Bachelor of Environmental Science, Bachelor of Marine Science, Bachelor of Medicinal Chemistry and Bachelor of Nanotechnology.

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinator is the Associate Dean, Associate Professor Ted Bryant, 41.259.

## Bachelor of Science (Honours)

Testamur Title of Degree:	Bachelor of Science (Honours)
Abbreviation:	BSc(Hons)
Home Faculty:	Science
Duration:	1 year
Total Credit Points:	48
Delivery Mode:	Flexible
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	741
UAC Code:	-
CRICOS Code:	003126F

## Overview

Students who have fulfilled the requirements of a Bachelor of Science with a major in a discipline offered by the Faculty, and achieved the required academic standard, may undertake an Honours degree - a year of research training in the discipline.

The honours degree provides students with the first real opportunity to undertake research on a topic of your interest. The honours year is particularly important as it represents a gateway to future research opportunities, both in the form of higher research degrees and as a career in research, or other vocations that require advanced analytical and research skills.

## Entry Requirements / Assumed Knowledge

Students may apply to enrol in an Honours degree after the requirements of the pass degree have been fulfilled, normally at the prescribed academic standard. This standard is usually an average of at least credit level for the 300-level subjects in the major study. Admission to Honours is by recommendation of the relevant Head of the Academic Unit and approval by the Dean or Associate Dean of the Faculty, and acceptance by an academic supervisor in the discipline.

By arrangement with the academic units involved, it is possible to undertake Joint Honours, a research thesis spanning two disciplines.

Students proceeding directly from a 3-year degree to Honours do not graduate until after they have completed Honours. However, it is possible to graduate with a Pass Degree and then decide to undertake Honours at a later date, either at this University or at another University. Graduates from other Universities may also apply to undertake Honours at the University of Wollongong.

## Course Requirements

To graduate with an Honours degree, candidates undertake a research thesis within their major study discipline, together with any required coursework.

In the Faculty of Science, Bachelor of Science Honours degrees can be taken in the following disciplines:

- Biological Sciences
- Chemistry
- Human Geography
- Physical Geography
- Geology
- Geosciences

Students enrol in the appropriate 400-level Honours for the particular discipline, as set out below.

## Course Program

Subjects	Session	Credit Points
<b>Biological Sciences Honours</b>		
BIOL401      Biology Honours	Annual	48
or		
BIOL402      Biology Joint Honours	Annual	24
<b>Chemistry Honours</b>		
CHEM401      Chemistry Honours	Annual	48
or		
CHEM402      Chemistry Honours Part 1 for Part Time students	Autumn	24
and		
CHEM403      Chemistry Honours Part 2 for Part Time students	Autumn	24
or		
CHEM405      Chemistry Joint Honours	Annual	24
<b>Human Geography, Physical Geography, Geology or Geosciences Honours</b>		
EESC401      Earth and Environmental Science Honours	Annual	48
OR		
EESC402      Earth and Environmental Science Joint Honours	Annual	24

## Other Information

For further information contact the Head of the Academic Unit in the particular discipline, or the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/)

## Bachelor of Science (Biotechnology)

Testamur Title of Degree:	Bachelor of Science (Biotechnology)
Abbreviation:	BSc(Biotech)
Home Faculty:	Science
Duration:	3 years
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	742
UAC Code:	757631
CRICOS Code:	003283D

## Overview

Biotechnology is the application of exciting advances in molecular and cell biology to medicine, agriculture, and the environment. Through modern technologies, such as genetic engineering, biotechnology is shaping diverse aspects of medicine (cancer, vaccines, therapy and diagnosis of genetic diseases), food production (transgenic plants) and industry (bioremediation). Biotechnology encompasses the rapidly evolving fields of monoclonal antibody technology, proteomics and genetic engineering. A new generation of pharmaceuticals, vaccines, hormones and anti-inflammatory agents are being developed using these technologies.

## Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 85 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Chemistry and Mathematics. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least

Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

This is a prescribed program of study comprising core and optional subjects as set out below.

## Course Program

Subjects		Session	Credit Points
<b>First Year</b>			
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity and Environment	Autumn	6
CHEM101/104	Chemistry 1A/1D	Autumn	6
CHEM102/105	Chemistry 1B/1E	Spring	6
MATH151	General Mathematics 1A (if required)	Autumn or Summer	6
Plus other elective subjects to give a total credit point value of 48, at least 6 of which should be one of the following:			
PHYS132*	Physics for the Environmental and Life Sciences	Spring	6
STS100#	Social Aspects of Science and Technology	Autumn	6
BMS101	Systemic Anatomy	Autumn	6
BMS112	Human Physiology I: Principles and Systems	Spring	6
* Strongly recommended			
# STS100 is compulsory for students taking an approved course of study which does not include STS250.			
<b>Second Year</b>			
BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BIOL215	Introductory Genetics	Spring	6
BIOL240	Functional Biology of Plants & Animals	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6
CHEM212	Organic Chemistry	Autumn	6
CHEM214	Analytical & Environmental Chemistry II	Spring	6
Plus one of the following subjects:			
STS250	From Molecular Genetics to Biotechnology	Autumn	8
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
<b>Third Year</b>			
<b>Core</b>			
BIOL303	Biotechnology: Applied Cell & Molecular Biology	Autumn	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
BIOL320	Molecular Cell Biology	Autumn	8
BIOL321	Cellular and Molecular Immunology	Spring	8
Options:			
Plus one Session 1 subject chosen from the following:			
CHEM350	Principles of Pharmacology	Autumn	8
BIOL332	Ecological & Evolutionary Physiology	Autumn	8
BIOL392	Advanced Biology Project	Autumn, Spring or Summer	8
MGMT308	Introduction to Management for Professionals	Autumn	6
STS250	From Molecular Genetics to Biotechnology	Autumn	8
BMS344	Cardiorespiratory Physiology	Autumn	8
Plus one Session 2 subject chosen from the following:			
CHEM321	Organic Synthesis and Reactivity	Spring	8
BIOL392	Advanced Biology Project	Autumn, Spring or Summer	8
PHIL380	Bioethics	Spring	8
Or other subjects approved by the Coordinator			

## Honours

If the required academic standard is attained the BSc (Biotechnology) student may transfer to the B Biotechnology fourth Honours year. This consists of special coursework plus a research project.

## Professional Recognition

Graduates qualify to apply for membership of the Australian Institute of Biology, the Australian Society of Microbiology and the Australian Biotechnology Society.

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). Or for more detailed course information contact the Professional Officer, Julie-Ann Green, telephone: 4221 3100; email: [jagreen@uow.edu.au](mailto:jagreen@uow.edu.au).

The Coordinator of the degree is Associate Professor Mark Wilson – School of Biological Sciences.

## Bachelor of Science (Ecology)

Testamur Title of Degree:	Bachelor of Science (Ecology)
Abbreviation:	BSc(Ecol)
Home Faculty:	Science
Duration:	3 years
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	742
UAC Code:	757621
CRICOS Code:	003283D

## Overview

The University has one of the strongest ecological research groups in Australia working in marine, freshwater and terrestrial ecology, tropical and temperate ecosystems. Study areas include applications of remote sensing and geographical information systems (GIS), the use of molecular genetics in conservation biology, biodiversity assessment/sampling, environmental impact assessment and experimental ecology. Organisms studied include: endangered plants, marsupial pollinators, marine and arid land birds, invertebrates – from corals to ants and marine and freshwater fish.

## Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 78 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Four units of science or four units comprising science and mathematics. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

This is a prescribed program of study comprising core and optional subjects as set out below.

## Course Program

Subjects		Session	Credit Points
<b>First Year</b>			
BIOL104	Evolution, Biodiversity & Environment	Autumn	6
BIOL103	Molecules, Cells & Organisms	Spring	6
EESC102	Earth Environments and Resources	Spring	6
EESC103	Landscape Change and Climatology	Autumn	6
MATH187	Mathematics 1A, Part 1 (or Math 141 or Math 161)	Autumn	6
MATH188	Mathematics 1A, Part 2 (or Math 142 or Math 162)	Spring	6
Plus 12 credit points of electives to be approved by the coordinator			
<b>Second Year</b>			
BIOL240	Functional Biology of Plants and Animals	Autumn	6
BIOL241	Biodiversity: Classification and Sampling	Spring	6
BIOL251	Principles of Ecology and Evolution	Autumn	6
EESC 203	Biogeography & Environmental Change	Autumn	6
EESC 204	Introductory Spatial Science	Spring	6
MATH111	Applied Mathematical Modelling 1	Spring	6
STAT 231	Probability and Random variables	Autumn	6
STAT 232	Estimation and Hypothesis Testing	Spring	6



One 6 credit point elective subject may be approved by the coordinator if MATH111 is taken in 1st year

### Third Year

#### Core

BIOL351	Conservation Biology: Marine & Terrestrial Populations	Autumn	8
BIOL355	Marine and Terrestrial Ecology	Spring	8
EESC 304	Geographic Information Science	Spring	8
EESC 305	Remote Sensing of the Environment	Autumn	8
STAT 355	Sample Surveys and Experimental design (with project)	Autumn/Spring	8

#### Options:

Plus one of the following

BIOL332	Ecology and Evolutionary Physiology	Autumn	8
BIOL392	Advanced Biology Project	Autumn/Spring/ Summer	8
MARE300	Fisheries and Aquaculture	Spring	8
EESC302	Coastal Environments and Processes	Spring	8

Or other subjects approved by the Coordinator.

Entry to BIOL392 would be subject to student having a distinction average in relevant subjects plus an arrangement for a supervisor.

### Honours

Students with a good academic record, particularly in third year, are encouraged to proceed to the Honours year in the discipline of their major. The Honours year is a fourth year of study that provides a training in independent research.

### Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Course Coordinator is Dr Kris French - School of Biological Sciences.

## Bachelor of Science (Environment)

Testamur Title of Degree:	Bachelor of Science (Environment)
Abbreviation:	BSc(Env)
Home Faculty:	Science
Duration:	3 years
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	742
UAC Code:	757633
CRICOS Code:	003283D

### Overview

The Bachelor of Science (Environment) offers two broad, flexible, multi-disciplinary three-year strands ideal for students wishing to complete a science-based environmental degree with a view to employment in an area of environmental assessment, management and policy development. Core subjects have been chosen with a view to providing the key workplace skills required in the environmental field, and appropriate disciplinary strands can be chosen from optional subjects.

### Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 80 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Four units of Science or four units comprising Science and Mathematics. Recommended studies include four units of Science or four units of Science and Mathematics. Geography may be counted as Science subjects.

### Course Requirements

This is a prescribed program of study comprising core and optional subjects as set out below.

### Course Program

#### *(a) Biological Sciences/Chemistry/Geosciences strand*

Subjects	Session	Credit Points
----------	---------	---------------

<b>Common First Year</b>			
BIOL104	Evolution, Biodiversity & Environment	Autumn	6
CHEM101/4	Chemistry 1A/D	Autumn	6
EESC101	Planet Earth	Autumn	6
EESC103	Landscape Change and Climatology	Autumn	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102/5	Chemistry 1B/E	Spring	6
EESC102	Earth Environments and Resources	Spring	6
EESC104	The Human Environment: Problems and Change	Spring	6
<b>Common Second Year</b>			
BIOL251	Principles of Ecology and Evolution	Autumn	6
PHYS233	Introduction to Environmental Physics	Autumn	6
EESC203	Biogeography and Environmental Change	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6
CHEM214	Analytical and Environmental Chemistry	Spring	6
EESC204	Introductory Spatial Science	Spring	6
<b>Options:</b> Plus 2 of the following subjects, one of which should be MATH151 if minimum Mathematics requirement not already met, as approved for the balance of credit points to total 48.			
MATH151	General Mathematics 1A (if required)	Autumn, Summer	6
BIOL240	Functional Biology of Plants and Animals	Autumn	6
CHEM211	Inorganic Chemistry II	Autumn	6
CHEM212	Organic Chemistry	Autumn	6
MARE200	Introduction to Oceanography	Autumn	6
BIOL241	Biodiversity: Classification and Sampling	Spring	6
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
EESC202	Soils, Landscapes and Hydrology	Spring	6
EESC208	Environmental Impact of Societies	Spring	6
EESC250	Field Geology I	Summer	6
<b>Third Year</b>			
<b>Core</b>			
EESC304	Geographic Information Science	Spring	8
ENVI391	Environmental Science	Spring	8
<b>Options:</b> Plus 4 of the following subjects, as approved:			
CHEM314	Instrumental Analysis	Autumn	8
CHEM327	Environmental Chemistry	Autumn	8
BIOL351	Conservation Biology: Marine and Terrestrial Populations	Autumn	8
EESC305	Remote Sensing of the Environment	Autumn	8
EESC306	Resources and Environments	Spring	8
EESC308	Environmental and Heritage management	Spring	8
BIOL355	Marine and Terrestrial Ecology	Spring	8
EESC302	Coastal Environments: Process & Management	Spring	8
MARE300	Fisheries and Aquaculture	Spring	8
MARE357	Advances in Molluscan Biology	Summer	8
Or other subjects approved by the Coordinator			

***(b) Physical Sciences strand***

Subjects		Session	Credit Points
Common First Year			
CHEM101	Chemistry 1A	Autumn	6
CHEM102	Chemistry 1B	Spring	6
PHYS141	Fundamentals of Physics A	Autumn	6
PHYS142	Fundamentals of Physics B	Spring	6
MATH187	Mathematics 1A, Part 1 (or MATH141/161)	Autumn	6
MATH188	Mathematics 1A, Part 2 (or MATH142/162)	Spring	6
EESC103	Landscape Change and Climatology	Autumn	6
CSCI114	Procedural Programming	Autumn or Spring	6
Common Second Year			
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
CHEM214	Analytical and Environmental Chemistry	Spring	6
PHYS230	Intermediate Physics	Annual	12
PHYS235	Mechanics and Thermodynamics	Autumn	6
PHYS233	Introduction to Environmental Physics	Autumn	6
MATH283	Mathematics IIE for Engineers Part 1	Spring	6
BIOL352	Biology for Environmental Engineers	Autumn	6
Third Year			
Core			
PHYS375	Nuclear Physics	Spring	6
CHEM314	Instrumental Analysis	Autumn	8
CHEM327	Environmental Chemistry	Autumn	8
ENVE221	Air and Noise Pollution	Spring	6

EESC204	Introductory Spatial Science	Spring	6
<b>Options:</b>			
Plus 2-3 of the following as approved to total a minimum of 48 cp:			
ENVE321	Solid and Hazardous Waste Management	Spring	6
ENVE385	Environmental Engineering	Autumn	8
ENVI411	Aqueous and Atmospheric Chemistry	Autumn	6
PHYS305	Quantum Mechanics	Autumn	6
PHYS335	Classical Mechanics	Autumn	6
PHYS325	Electromagnetism	Autumn	6
CHEM364	Molecular Structure & Spectroscopy	Autumn	8

## Honours

Students who have achieved the required standard would be eligible to enrol in Honours in their chosen discipline: Biological Sciences, Geosciences or Chemistry.

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinator is Professor John Morrison, Room 19.G012.

## Bachelor of Science (Land and Heritage Management)

Testamur Title of Degree:	Bachelor of Science (Land and Heritage Management)
Abbreviation:	BSc(L&HM)
Home Faculty:	Science
Duration:	3 years
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn of Spring
Location:	Wollongong
UOW Course Code:	742
UAC Code:	757621
CRICOS Code:	003283D

## Overview

This specialist program combines Physical and Human Geography with other relevant subjects to provide the skills and knowledge required for employment or research on both cultural and natural heritage issues.

## Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 80 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Four units of science or four units comprising science and mathematics. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

This is a prescribed program of study comprising core and optional subjects as set out below.

## Course Program

Subjects	Session	Credit Points
<b>First Year</b>		
<b>Core</b>		
EESC102	Earth Environments and Resources	Spring 6
EESC103	Landscape Change and Climatology	Autumn 6
EESC104	The Human Environment: Problems & Change	Spring 6
MATH151	General Mathematics 1A (if required)†	Autumn or Summer 6
<b>Options</b>		
EESC101	Planet Earth	Autumn 6
BIOL104	Evolution, Biodiversity & Environment	Autumn 6
BIOL103	Molecules, Cells and Organisms	Spring 6
Plus other elective subjects to total 48 credit points. Students are encouraged to select from the General Schedule offerings in History, Aboriginal Studies, STS and Legal Studies.		
† required if entering the program without at least HSC Mathematics Band 4 or equivalent		
<b>Second Year</b>		

<b>Core</b>			
EESC204	Introductory Spatial Science	Spring	6
EESC210	Social Spaces: Rural and Urban	Spring	6
EESC203	Biogeography & Environmental Change	Autumn	6
EESC208	Environmental Impact of Societies	Spring	6
Plus at least TWO subjects chosen from:			
<b>Options</b>			
EESC202	Soils, Landscape and Hydrology	Spring	6
EESC206	Discovering Down-under: a Geography of Australia	Spring	6
EESC205	Population Studies	Autumn	6
BIOL251	Principles of Ecology and Evolution	Autumn	6
Plus elective subjects to total 12 credit points			
<b>Third Year</b>			
<b>Core</b>			
EESC308	Environmental and Heritage Management	Spring	8
EESC307	Spaces, Places and Identities	Autumn	8
EESC304	Geographic Information Systems	Spring	8
<b>Options</b>			
Plus THREE of the following:			
EESC302	Coastal Environments: Process & Management	Spring	8
EESC303	Fluvial Geomorphology and Sedimentology	Autumn	8
EESC305	Remote Sensing of the Environment	Autumn	8
EESC310	Water Resources and Management	Spring	8
EESC300	Directed Studies in Earth and Environmental Sciences	Autumn or Spring	8
Or other subjects approved by the Coordinator			

## Honours

Students with a good academic record, particularly in third year are encouraged to proceed to the Honours year in the discipline of their major. The Honours year is a fourth year of study that provides a training in independent research.

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Course Coordinator is Associate Professor Lesley Head, School of Earth and Environmental Sciences, Room 41.G31.

## Bachelor of Science (Medicinal Chemistry)

Testamur Title of Degree:	Bachelor of Science (Medicinal Chemistry)
Abbreviation:	BSc (Med Chem)
Home Faculty:	Science
Duration:	3 years
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	742
UAC Code:	757624
CRICOS Code:	003283D

## Overview

Medicinal Chemistry is a three-year degree which provides students with an excellent training in modern techniques of chemical science applied to medicine. This includes specialised courses in drug discovery and design, using both rational, computer-aided and bioprospecting approaches. It also gives students the training in physiology, pharmacology and other areas needed to understand the effects of disease states on the human body and the role of drugs and other ways of chemical intervention. Students who meet the criteria are eligible to transfer to the Bachelor of Medicinal Chemistry Honours program.

## Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 80 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Chemistry and Mathematics. Students who had not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics (Band 4) may take a special mathematics subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

This is a prescribed program of study comprising core and optional subjects as set out below.

## Course Program

Subjects		Session	Credit Points
<b>First Year</b>			
CHEM101	Chemistry 1A (or CHEM104 Chemistry 1D)	Autumn	6
CHEM102	Chemistry 1B (or CHEM105 Chemistry 1E)	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity & Environment	Autumn	6
or			
BMS103	Human Growth, Nutrition & Exercise	Autumn	6
BMS112	Human Physiology I: Principles & Systems	Spring	6
MATH151	General Mathematics 1A (if required)	Autumn/Summer	6
Plus other elective subjects to give a total credit point value of 48, at least 6 of which should be one of the following:			
BMS101	Systemic Anatomy	Autumn	6
PHYS131	Physics for Environmental & Life Sciences (Strongly recommended)	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6
<b>Second Year</b>			
CHEM211	Inorganic Chemistry II	Autumn	6
CHEM212	Organic Chemistry II	Autumn	6
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
CHEM214	Analytical & Environmental Chemistry II	Spring	6
BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BIOL215	Introductory Genetics	Spring	6
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
<b>Third Year</b>			
<b>Core</b>			
CHEM320	Bioinformatics: From genome to structure	Spring	8
CHEM321	Organic Synthesis & Reactivity	Spring	8
CHEM330	Medicinal Chemistry	Spring	8
CHEM350	Principles of Pharmacology	Autumn	8
CHEM364	Molecular Structure and Spectroscopy	Autumn	8
<b>Options</b>			
Plus one of the following subjects:			
CHEM314	Instrumental Analysis	Autumn	8
CHEM340	Chemistry Laboratory Project (restricted access: Credit average minimum requirement)		8
BIOL303	Biotechnology: Applied Cell and Molecular Biology	Autumn	8
BIOL320	Molecular Cell Biology	Spring	8
Or other subjects approved by the Coordinator			

## Honours

If the required academic standard is attained the BSc(Medicinal Chemistry) student may transfer to the B Medicinal Chemistry fourth Honours year. This consists of special coursework plus a research project.

## Professional Recognition

This degree structure is designed basically to meet the qualifying standards of the Royal Australian Chemistry Institute, and students meeting the course requirements outlined below will be eligible for corporate membership of the Institute as Chartered Chemists.

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinator is Dr Paul Keller, Room 18.222, telephone: 4221 4692, email: [keller@uow.edu.au](mailto:keller@uow.edu.au).

## Bachelor of Science (Nanotechnology)

Testamur Title of Degree:	Bachelor of Science (Nanotechnology)
Abbreviation:	BSc (Nanotech)
Home Faculty:	Science
Duration:	3 years
Total Credit Points:	144
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	742

UAC Code:	757627
CRICOS Code:	003283D

## Overview

This 3-year coursework interdisciplinary degree in Nanotechnology is a joint offering from the Faculties of Engineering and Science. The degree targets the emerging field of nano-materials, molecular machines and nano-science.

The course will draw on strengths in the Faculties of Science and Engineering and a major strength in research at UOW, namely the 3 materials based Institutes: Intelligent Polymer Research Institute, Institute for Superconducting and Electronic Materials, BHP Steel Institute as well as Research Centre for Advanced Materials and Processing. One of the main aims is to produce high quality graduates to feed into post-graduate programs within the Materials Institutes and other research units at UOW.

This course has a materials chemistry focus with possible elective subjects in physics, engineering (eg. mechatronics) and biology. There are a total of 5 elective subjects giving students scope to match the course to their interests whilst retaining a core focus on molecular design and characterization of materials at the nano-dimension. The course includes four specially designed subjects that will be mainly research oriented and combine lectures, laboratory and project work. This will give students from first year onwards a taste of where leading research in nanotechnology is heading. The research units will contribute significantly to these new subjects.

## Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 80 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Chemistry or Physics and Mathematics. Students who have not completed Chemistry at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

This is a prescribed program of study comprising core and optional subjects as set out below.

## Course Program

Subjects		Session	Credit Points
<b>First Year</b>			
CHEM101/CHEM104	Introductory Chemistry	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
MATH187/MATH141	General Mathematics 1A Part 1/1C Part 1	Autumn	6
NANO101	Current Perspectives in Nanotechnology	Spring	6
CHEM102/CHEM105	Physical/Organic Chemistry	Spring	6
ENGG153	Engineering Materials	Autumn	6
PHYS142	Fundamentals of Physics B	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
<b>Second Year</b>			
CHEM212	Organic Chemistry II	Autumn	6
MATE201	Structure and Properties of Materials	Autumn	6
PHYS205	Advanced Modern Physics	Autumn	6
NANO201	Research Topics in Nanotechnology	Spring	6
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
CHEM211	Inorganic Chemistry II	Spring	6
Plus two of the following electives:			
<b>Materials Chemistry Stream</b>			
CHEM214	Analytical and Environmental Chemistry	Spring	6
MATE204	Mechanical Behaviour	Spring	6
MATE291	Engineering Computing and Laboratory Skills	Autumn	6
<b>Physics Stream</b>			
MATH283	Mathematics IIE for Engineers Part 1	Autumn	6
PHYS263	Photonics		6
<b>Mechatronics Stream</b>			
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design for Innovation	Autumn	6
<b>Other subject options</b>			
BIOL103	Molecules, Cells and Organisms	Spring	6
<b>Third Year</b>			
<b>Core</b>			
CHEM364	Molecular Structure and Spectroscopy	Autumn	8
MATE202	Thermodynamics and Phase Equilibria	Autumn	6
NANO301	Research Project in Nanomaterials	Autumn	8
CHEM301	Advanced Materials and Nanotechnology	Spring	8
MATE303	Ceramics, Glasses and Refractories	Spring	6
<b>Options</b>			
Plus two electives			

**Materials Chemistry Stream**

CHEM321	Organic Synthesis and Reactivity	Spring	8
CHEM314	Instrumental Analysis	Autumn	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
MATE301	Engineering Alloys	Autumn	6
MATE306	Degradation of Materials	Spring	6

**Physics Stream**

PHYS305	Quantum Mechanics	Autumn	6
PHYS363	Advanced Photonics		6

**Mechatronics Stream**

ENGG251	Mechanics of Solids	Autumn	6
MECH215	Fundamentals of Machine Component Design	Spring	6

**Other subject options**

BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	Metabolic Biochemistry	Spring	6

Or other subjects approved by the Coordinator

**Honours**

If the required academic standard is attained the BSc(Nanotechnology) student may transfer to the Bachelor of Nanotechnology fourth Honours year. This consists of special coursework plus a research project.

**Professional Recognition**

Students may choose options enabling them to graduate and be eligible for accreditation with the Royal Australian Chemical Institute (RACI).

**Other Information**

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinators are Associate Professor Will Price, Room 18.102A, and Assoc Professor Geoff Spinks, Room 41a.271.

**Bachelor of Marine Science****Bachelor of Marine Science Advanced (Honours)**

Testamur Title of Degree:	Bachelor of Marine Science, Bachelor of Marine Science Advanced (Honours)
Abbreviation:	BMarSc, BMarSc Adv (Hons)
Home Faculty	Science
Duration:	3 years, 4 years
Total Credit Points:	144 or 192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	789, 789A
UAC Code:	757622, 757623
CRICOS Code:	039553A

**Overview**

The Bachelor of Marine Science is a 3-year coursework program with a broad emphasis on the marine sciences taught jointly by the School of Biological Sciences and the School of Earth and Environmental Sciences. The program consists of core subjects in each of the three years plus a flexible range of optional subjects. At Second Year students choose either a single strand in Marine Biology or Marine Geosciences or a combination of these specialisations. Subjects from across the range of relevant disciplines have been included together with a number of specially designed marine subjects.

**Entry Requirements / Assumed Knowledge**

Bachelor of Marine Science (789): New South Wales HSC University Admission Index (UAI) of 85 (or equivalent). The UAI is reviewed each year.

Bachelor of Marine Science Honours Advanced (789A): New South Wales HSC University Admission Index (UAI) of 90 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Chemistry and Mathematics. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

Bachelor of Marine Science (789): This is a prescribed program of study comprising core and optional subjects as set out below.

Bachelor of Marine Science (Honours) Advanced (789A): Students who are eligible for this degree fulfil all the same requirements as Bachelor of Marine Science candidates but are also eligible for additional benefits and challenges, and proceed directly to a fourth Honours year. For further information refer to the Bachelor of Science (Honours) Advanced (741A) and consult the Degree Coordinator.

## Course Program

Subjects		Session	Credit Points
Common First Year			
Core			
EESC102	Earth Environments and Resources	Spring	6
EESC103	Landscape Change and Climatology	Autumn	6
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity & Environment	Autumn	6
CHEM101/4	Chemistry 1A/D	Autumn	6
CHEM102/5	Chemistry 1B/E	Spring	6
MATH151	General Mathematics 1A (required if entering the program without at least HSC Mathematics Band 4)	Autumn, Summer	6
Options			
Select one or two of the following:			
STAT252	Statistics for the Natural Sciences	Spring	6
EESC101	Planet Earth	Autumn	6
EESC104	The Human Environment	Spring	6
PHYS233	Introduction to Environmental Physics	Autumn	6
STS112	The Scientific Revolution: History, Philosophy and Politics of Science	Spring	6
STS116	Environment in Crisis: Technology & Society	Spring	6
MATH111	Applied Mathematical Modelling I	Spring	6
MGMT110	Introduction to Management	Autumn, Spring	6
Or 1-2 elective 100 or 200 level subjects chosen from the Science or General Schedule			
At Second Year students choose either a single strand in <b>Marine Biology</b> or <b>Marine Geosciences</b> or a combination of these specialisations. Any variations on the strands and pathways listed below requires approval by the degree coordinator. Note that optional subjects selected in Year 2 must be chosen to satisfy prerequisites required for Year 3 subjects.			
Second Year	Marine Biology Strand - Marine Ecology Pathway		
Core			
MARE200	Introduction to Oceanography	Autumn	6
EESC204	Introductory Spatial Science	Spring	6
BIOL241	Biodiversity: Classification and Sampling	Spring	6
BIOL251	Principles of Ecology & Evolution	Autumn	6
BIOL240	Functional Biology of Plants and Animals	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6
Options:			
Plus 1 of the following two subjects			
EESC201	Earth Surface Processes and Products	Autumn	6
EESC203	Biogeography and Environmental Change	Autumn	6
Plus 1 of the following three subjects			
CHEM214	Analytical and Environmental Chemistry	Spring	6
EESC208	Environmental Impact of Societies	Spring	6
EESC250	Field Geology (Summer Session)	Summer	6
Third Year			
Core			
MARE300	Fisheries and Aquaculture	Spring	8
BIOL351	Conservation Biology: Marine and Terrestrial Populations	Autumn	8
BIOL355	Marine and Terrestrial Ecology	Spring	8
BIOL332	Ecological and Evolutionary Physiology	Autumn	8
Options			
Plus 1 or the following three subjects			
EESC305	Remote Sensing of the Environment	Autumn	8
MARE393	Advanced Marine Science Project	Autumn, Spring, Summer	8
STAT355	Sample Surveys and Experimental Design (with project)	Autumn, Spring	8
Plus 1 of the following five subjects			
EESC302	Coastal Environments: Process & Management	Spring	8
EESC304	Geographic Information Science	Spring	8
MARE393	Advanced Marine Science Project	Autumn, Spring	8
MARE357	Advances in Molluscan Biology (Summer Session)	Summer	8
MARE393	Advanced Marine Science Project (Summer Session)	Summer	8
Or other subjects approved by the Coordinator			



<b>Second Year Marine Biology Strand - Biotechnology Pathway</b>			
<b>Core</b>			
MARE200	Introduction to Oceanography	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BIOL215	Introductory Genetics	Spring	6
BIOL241	Biodiversity: Classification and Sampling	Spring	6
BIOL251	Principles of Ecology & Evolution	Autumn	6
BIOL240	Functional Biology of Plants and Animals	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6
<b>Third Year</b>			
<b>Core</b>			
MARE300	Fisheries and Aquaculture	Spring	8
BIOL355	Marine and Terrestrial Ecology	Spring	8
<b>Options</b>			
Plus three of the following four subjects			
BIOL303	Biotechnology: Applied Cell and Molecular Biology	Autumn	8
BIOL320	Molecular Cell Biology	Autumn	8
BIOL351	Conservation Biology: Marine and Terrestrial Populations	Autumn	8
BIOL332	Ecological and Evolutionary Physiology	Autumn	8
Plus one of the following five subjects			
BIOL321	Cellular and Molecular Immunology	Spring	8
CHEM320	Bioinformatics: from genome to structure	Spring	8
MARE393	Advanced Marine Science Project	Autumn, Spring	8
MARE357	Advances in Molluscan Biology (Summer Session)	Summer	8
MARE393	Advanced Marine Science Project (Summer Session)	Summer	8
Or other subjects approved by the Coordinator			
<b>Second Year Marine Geosciences Strand</b>			
Note: It is possible to take a double major (Marine Biology-Marine Geosciences in the Marine Geosciences Strand.			
BIOL251	Principles of Ecology & Evolution	Autumn	6
EESC201	Earth Surface Processes and Products	Autumn	6
EESC203	Biogeography and Environmental Change	Autumn	6
MARE200	Introduction to Oceanography	Autumn	6
BIOL241	Biodiversity: Classification and Sampling	Spring	6
EESC204	Introductory Spatial Science	Spring	6
STAT252	Statistics for the Natural Sciences	Spring	6
Plus one of the following three subjects			
CHEM214	Analytical and Environmental Chemistry	Spring	6
EESC208	Environmental Impact of Societies	Spring	6
EESC250	Field Geology (Summer Session)	Summer	6
<b>Third Year</b>			
<b>Core</b>			
EESC305	Remote Sensing of the Environment	Autumn	8
EESC302	Coastal Environments: Process & Management	Spring	8
<b>Options</b>			
Plus two of the following four subjects			
BIOL351	Conservation Biology: Marine and Terrestrial Populations	Autumn	8
EESC301	Plate Tectonics, Macrotopography and Earth History	Autumn	8
EESC303	Fluvial Geomorphology and Sedimentology	Autumn	8
MARE393	Advanced Marine Science Project	Autumn, Spring	8
Plus two of the following eight subjects			
BIOL355	Marine and Terrestrial Ecology	Spring	8
EESC304	Geographic Information Science	Spring	8
EESC306	Resources and Environments	Spring	8
EESC308	Environmental and Heritage Management	Spring	8
MARE300	Fisheries and Aquaculture	Spring	8
MARE393	Advanced Marine Science Project	Autumn, Spring	8
MARE357	Advances in Molluscan Biology	Summer	8
MARE393	Advanced Marine Science Project	Summer	8
Or other subjects approved by the Coordinator			

## Honours

Students may apply to enrol in an Honours degree, Bachelor of Marine Science (Honours) (789M) after the requirements of the pass degree have been fulfilled, normally at the prescribed academic standard. This standard is normally an average of at least credit level for the 300-level subjects in the major study. Admission to Honours is by recommendation of the degree Coordinator and approval of the Dean or Associate Dean.

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/biol/marine/index.html](http://www.uow.edu.au/science/biol/marine/index.html). The Coordinator is Associate Professor Chris Fergusson, Room 41.107, telephone 4221 3860, email: [cferguss@uow.edu.au](mailto:cferguss@uow.edu.au).

## Bachelor of Marine Science (Honours)

Testamur Title of Degree:	Bachelor of Marine Science (Honours)
Abbreviation:	BMarSc(Hons)
Home Faculty:	Science
Duration:	1 year
Total Credit Points:	48
Delivery Mode:	Flexible
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	789M
UAC Code:	N/A
CRICOS Code:	048494K

### Overview

Students who have fulfilled the requirements of a Bachelor of Marine Science, and achieved the required academic standard, may undertake an Honours degree – a year of research training in the discipline.

The Honours degree provides you with the first real opportunity to undertake research on a topic of your interest.

The Honours year is particularly important as it represents a gateway to future research opportunities, both in the form of higher research degrees and as a career in research, or other vocations that require advanced analytical and research skills.

### Entry Requirements / Assumed Knowledge

Students may apply to enrol in an Honours degree after the requirements of the Pass degree have been fulfilled, normally at the prescribed academic standard. This standard is usually an average of at least credit level for the 300-level subjects in the major study. Admission to Honours is by recommendation of the relevant Head of the Academic Unit and approval by the Dean or Associate Dean of the Faculty, and acceptance by an academic supervisor in the discipline.

By arrangement with the academic units involved, it is possible to undertake Joint Honours, a research thesis spanning two disciplines.

Students proceeding directly from a 3-year degree to Honours do not graduate until after they have completed Honours. However, it is possible to graduate with a Pass degree and then decide to undertake Honours at a later date, either at this University or at another University. Graduates from other Universities may also apply to undertake Honours at the University of Wollongong.

### Course Requirements

To graduate with a Bachelor of Marine Science Honours degree, candidates undertake a Marine Science research thesis together with any other required assignments and seminars.

Students enrol in the appropriate 400-level Honours subject, as follows.

### Course Program

Subjects	Session	Credit Points
Marine Science Honours		
MARE401      Marine Science Honours	Annual	48

### Other Information

For further information contact the Head of the Academic Unit in the particular discipline, or the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). Marine Science Honours Coordinator: Associate Professor Chris Fergusson, Room 41.107, telephone 4221 3860, email [cferguss@uow.edu.au](mailto:cferguss@uow.edu.au).

## Bachelor of Biotechnology, Bachelor of Biotechnology Advanced

Testamur Title of Degree:	Bachelor of Biotechnology, Bachelor of Biotechnology Advanced
---------------------------	--

Abbreviation:	BBiotech, BBiotech Adv
Home Faculty:	Science
Duration:	4 years
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	744, 744A
UAC Code:	757611, 757617
CRICOS Code:	006975G

## Overview

Biotechnology is the application of exciting advances in molecular and cell biology to medicine, agriculture, and the environment. Through modern technologies, such as genetic engineering, biotechnology is shaping diverse aspects of medicine (cancer, vaccines, therapy and diagnosis of genetic diseases), food production (transgenic plants) and industry (bioremediation).

Biotechnology encompasses the rapidly evolving fields of monoclonal antibody technology, proteomics and genetic engineering. A new generation of pharmaceuticals, vaccines, hormones and anti-inflammatory agents are being developed using these technologies.

The degree is an interdisciplinary program featuring:

- A major in cellular and molecular biology, including genetics, immunology, bioinformatics;
- A major strand of chemistry;
- Skills in "state-of-the-art" nucleic acid, protein and monoclonal antibody technologies;
- An optional strand in human anatomy and physiology;
- Other relevant areas such as ethics and management;
- The flexibility in first year to explore other options;
- Specialised training in "cutting-edge" technologies in the fourth year
- Your own research project (4 year Honours).

## Entry Requirements / Assumed Knowledge

Bachelor of Biotechnology (744): New South Wales HSC University Admission Index (UAI) of 85 (or equivalent). The UAI is reviewed each year.

Bachelor of Biotechnology Advanced (744A): New South Wales HSC University Admission Index (UAI) of 90 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Chemistry and Mathematics. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

Bachelor of Biotechnology: This is a prescribed program of study comprising core and optional subjects as set out below.

Bachelor of Biotechnology Advanced: Students who are eligible for this degree fulfil all the same requirements as Bachelor of Biotechnology candidates but are also eligible for additional benefits and challenges. For further information refer to the Bachelor of Science (Honours) Advanced (741A) and consult the Degree Coordinator.

Progression Requirements: Students must satisfactorily complete at least 144 credit points before proceeding to enrol in fourth year subjects. In addition, satisfactory performance must be achieved (an average of 65% or greater in 300-level Biological Sciences, Chemistry and Biomedical Science subjects) for entry into the 4th year of the Bachelor of Biotechnology degree. Students with an average below 65% in 300-level Biological Sciences, Chemistry and Biomedical Science subjects may only progress into the 4th year of the Bachelor of Biotechnology with the approval of the Head of the Department of Biological Sciences. Students who do not gain entry into the 4th year of the Bachelor of Biotechnology degree will normally be required to transfer into the Bachelor of Science (Biotechnology) degree.

## Course Program

Subjects		Session	Credit Points
<b>First Year</b>			
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity and Environment	Autumn	6
CHEM101/104	Chemistry 1A/1D	Autumn	6
CHEM102/105	Chemistry 1B/1E	Spring	6
MATH151	General Mathematics 1A (if required)	Autumn or Summer	6

Plus other elective subjects to give a total credit point value of 48, at least 6 of which should be one of the following:

PHYS132*	Physics for the Environmental and Life Sciences	Spring	6
STS100#	Social Aspects of Science and Technology	Autumn	6
BMS101	Systemic Anatomy	Autumn	6
BMS112	Human Physiology I: Principles and Systems	Spring	6

\* Strongly recommended

# STS100 is compulsory for those students taking an approved course of study which does not include STS250.

#### Second Year

BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BIOL215	Introductory Genetics	Spring	6
BIOL240	Functional Biology of Plants & Animals	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6
CHEM212	Organic Chemistry	Autumn	6
CHEM214	Analytical & Environmental Chemistry II	Spring	6
Plus one of the following subjects:			
STS250	From Molecular Genetics to Biotechnology	Autumn	8
BMS202	Human Physiology II: Control Mechanisms	Autumn	6

#### Third Year

##### Core

BIOL303	Biotechnology: Applied Cell & Molecular Biology	Autumn	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
BIOL320	Molecular Cell Biology	Autumn	8
BIOL321	Cellular and Molecular Immunology	Spring	8

##### Options

Plus one Session 1 subject chosen from the following:

CHEM350	Principles of Pharmacology	Autumn	8
BIOL332	Ecological & Evolutionary Physiology	Autumn	8
BIOL392	Advanced Biology Project	Autumn, Spring or Summer	8
MGMT308	Introduction to Management for Professionals	Autumn	6

STS250	From Molecular Genetics to Biotechnology	Autumn	8
BMS344	Cardiorespiratory Physiology	Autumn	8

Plus one Session 2 subject chosen from the following:

CHEM321	Organic Synthesis and Reactivity	Spring	8
BIOL392	Advanced Biology Project	Autumn, Spring or Summer	8
PHIL380	Bioethics	Spring	8

Or other subjects approved by the Coordinator

#### Fourth Year

BIOL421	Cell, Protein and Nucleic Acid Technology	Autumn	12
BIOL423	Biotechnology Project	Spring	36

#### Honours

The Degree of Bachelor of Biotechnology (Honours) is awarded for meritorious performance in 3 and especially 4 year subjects.

Please Note: There are special requirements for progression to the fourth year. Refer to the section "Course Requirements" above.

#### Professional Recognition

Graduates qualify to apply for membership of the Australian Institute of Biology, the Australian Society of Microbiology and the Australian Biotechnology Society.

#### Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). Or for more detailed course information contact the Professional Officer, Julie-Ann Green, telephone: 4221 3100, email: [jagreen@uow.edu.au](mailto:jagreen@uow.edu.au). The Coordinator of the degree is Associate Professor Mark Wilson - School of Biological Sciences.

## Bachelor of Environmental Science, Bachelor of Environmental Science Advanced

Testamur Title of Degree:	Bachelor of Environmental Science, Bachelor of Environmental Science Advanced
Abbreviation:	BEnvSc, BEnvSc Adv
Home Faculty:	Science
Duration:	4 years
Total Credit Points:	192 credit points
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or spring
Location:	Wollongong
UOW Course Code:	746, 746A
UAC Code:	757612, 757618
CRICOS Code:	002256D

### Overview

The Bachelor of Environmental Science is a specialist degree designed to give students the knowledge and skills required to manage environmental issues confronting Australia and other countries. This degree aims to provide a broadly-based scientific education with a multidisciplinary approach to problem solving, covering all the principal sciences: biology, chemistry, geography, geology and physics, together with mathematics and statistics.

In addition, the program integrates material from a wide variety of disciplines relevant to the environment and its management: engineering, management, law, science and technology studies, and philosophy. This equips students to understand the ethical, social, economic and political aspects of environmental issues as well as to be able to work alongside engineers, lawyers and other professionals

### Entry Requirements / Assumed Knowledge

Bachelor of Environmental Science: New South Wales HSC University Admission Index (UAI) of 85 (or equivalent). The UAI is reviewed each year.

Bachelor of Environmental Science Advanced: New South Wales HSC University Admission Index (UAI) of 90 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Mathematics plus Biology or Chemistry. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics (Band 4) may take a special mathematics subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

### Course Requirements

Bachelor of Environmental Science (746): This is a prescribed program of study comprising core and optional subjects, as set out below.

Bachelor of Environmental Science Advanced (746A): Students who are eligible for this degree fulfil all the same requirements as Bachelor of Environmental Science candidates but are also eligible for additional benefits and challenges. For further information refer to the Bachelor of Science (Honours) Advanced (741A) and consult the Degree Coordinator.

### Course Program

Subjects		Session	Credit Points
<b>Common First Year</b>			
BIOL104	Evolution, Biodiversity & Environment	Autumn	6
CHEM101/4	Chemistry 1A/D	Autumn	6
EESC101	Planet Earth	Autumn	6
EESC103	Landscape Change and Climatology	Autumn	6
BIOL103	Molecules, Cells and Organisms	Spring	6
CHEM102/5	Chemistry 1B/E	Spring	6
EESC102	Earth Environments and Resources	Spring	6
EESC104	The Human Environment: Problems and Change	Spring	6
MATH151	General Mathematics 1A (If required)	Summer	6
<b>Common Second Year</b>			
BIOL251	Principles of Ecology and Evolution	Autumn	6
PHYS233	Introduction to Environmental Physics	Autumn	6
PHIL256	Ethics and the Environment	Autumn	6
EESC203	Biogeography and Environmental Change	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6
CHEM214	Analytical and Environmental Chemistry	Spring	6
EESC202	Soils, Landscape and Hydrology	Spring	6

EESC204	Introductory Spatial Science	Spring	6
---------	------------------------------	--------	---

Note: For students who select the Life Sciences Strand early in 2nd Year, an alternative program is available that substitutes BIOL241 Biodiversity: Classification and Sampling for EESC204 Introductory spatial Science in Spring Session of the 2nd Year.

3rd and 4th Year – Specialisation in one of four strands:

- (1) Land Resources
- (2) Earth Sciences
- (3) Life Sciences
- (4) Environmental Chemistry

#### Third Year Land Resources Strand

EESC303	Fluvial Geomorphology and Sedimentology	Autumn	8
STS300	The Environmental Context	Autumn	8
ENVI491	Environmental Science and Systems	Spring	8
EESC208	Environmental Impact of Societies	Spring	6
EESC302	Coastal Environments	Spring	8
Plus TWO subjects from the following:			
EESC201	Earth Surface Processes and Products	Autumn	6
EESC206	Discovering Down-Under	Spring	6
EESC304	Geographic Information Science	Spring	8
EESC305	Remote Sensing of the Environment**	Autumn	8

**\*\*Not to count with GEOS239**

#### Third Year Earth Sciences Strand

EESC201	Earth Surface Processes and Products	Autumn	6
EESC301	Plate Tectonics, Macrotopography and Earth History	Autumn	8
STS300	The Environmental Context	Autumn	8
ENVI491	Environmental Science and Systems	Spring	8
EESC306	Resources and Environments	Spring	8
EESC250	Field Geology	Summer	6
Plus ONE subject from the following:			
EESC208	Environmental Impact of Societies	Spring	6
EESC304	Geographic Information Science	Spring	8
EESC305	Remote Sensing of the Environment**	Autumn	8

**\*\*Not to count with GEOS239**

#### Third Year Life Sciences Strand

BIOL240	Functional Biology of Plants and Animals	Autumn	6
STS300	The Environmental Context	Autumn	8
BIOL351	Conservation Biology	Autumn	8
ENVI491	Environmental Science and Systems	Spring	8
BIOL356	Marine and Terrestrial Ecology	Spring	8
BIOL241	Biodiversity: Classification and Sampling	Spring	6
Plus ONE subject from the following:			
BIOL213	Principles of Biochemistry	Autumn	6
BIOL212	Introductory Microbiology and Immunology	Autumn	6
EESC304	Geographic Information Science	Spring	8
EESC305	Remote Sensing of the Environment**	Autumn	8
BIOL332	Ecological and Evolutionary Physiology	Autumn	8

#### Third Year Alternative Life Sciences Strand if selected in 2nd year

BIOL240	Functional Biology of Plants and Animals	Autumn	6
STS300	The Environmental Context	Autumn	8
BIOL351	Conservation Biology	Autumn	8
ENVI491	Environmental Science and Systems	Spring	8
BIOL356	Marine and Terrestrial Ecology	Spring	8
EESC204	Introductory Spatial Science	Spring	6
Plus One subject from the following			
BIOL213	Principles of Biochemistry	Autumn	6
BIOL212	Introductory Microbiology and Immunology*	Autumn	6
BIOL332	Ecological and Evolutionary Physiology	Autumn	8
EESC304	Geographic Information Science	Spring	8

**\*Not offered in 2004**

#### Third Year Environmental Chemistry Strand

CHEM211	Inorganic Chemistry II	Autumn	6
CHEM212	Organic Chemistry II	Autumn	6
CHEM327	Environmental Chemistry	Autumn	8
STS300	The Environmental Context	Autumn	8
ENVI491	Environmental Science and Systems	Spring	8
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
Plus One subject from the following			
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
CHEM321	Organic Synthesis and Reactivity	Spring	8
CHEM314	Instrumental Analysis†	Autumn	8

† Students wishing to take CHEM314 should consult the Coordinator of Environmental Science at the start of 3rd year.

#### Fourth Year – Common for all strands

ENVI403	Research Report	Annual	24
---------	-----------------	--------	----

ENVE385	Environmental Engineering	Autumn	8
MGMT308	Introduction to Management for Professionals A	Autumn	6
LAW380	Law for Environmental Managers	Spring	8

### Honours

The Degree of Bachelor of Environmental Science (Honours) is awarded for meritorious performance in 3 and especially 4 year subjects.

### Professional Recognition

Graduates are eligible for full membership of the Environment Institute of Australia & New Zealand and other relevant professional bodies depending on their disciplinary orientation.

### Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481 or the Environmental Science Unit, 19.G012, 42214134. Web site: [www.uow.edu.au/science/env/](http://www.uow.edu.au/science/env/). The Degree Coordinator is Professor John Morrison, 19.G012.

## Bachelor of Medicinal Chemistry, Bachelor of Medicinal Chemistry Advanced

Testamur Title of Degree:	Bachelor of Medicinal Chemistry, Bachelor of Medicinal Chemistry Advanced
Abbreviation:	BMedChem, BMedChem Adv
Home Faculty:	Science
Duration:	4 years
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	755, 755A
UAC Code:	757613, 757619
CRICOS Code:	016113D

### Overview

Medicinal Chemistry is a specialist four-year Honours degree which provides students with an excellent training in modern techniques of chemical science applied to medicine. This includes specialised courses in drug discovery and design, using both rational, computer-aided and bioprospecting approaches. It also gives students the training in physiology, pharmacology and other areas needed to understand the effects of disease states on the human body and the role of drugs and other ways of chemical intervention. Students not admitted directly into the program may gain admission via the BSc program subject to satisfactory performance in first year, prerequisite considerations, and approval of the Dean.

The fourth year Honours program gives students exposure to advanced medicinal chemistry laboratory techniques, research experience and training in advanced medicinal chemistry applications.

### Entry Requirements / Assumed Knowledge

Bachelor of Medicinal Chemistry (755): New South Wales HSC University Admission Index (UAI) of 85 (or equivalent). The UAI is reviewed each year.

Bachelor of Medicinal Chemistry Advanced (755A): New South Wales HSC University Admission Index (UAI) of 90 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Chemistry and Mathematics. Students who had not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics (Band 4) may take a special mathematics subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

### Course Requirements

Bachelor of Medicinal Chemistry (755): This is a prescribed program of study comprising core and optional subjects as set out below.

Bachelor of Medicinal Chemistry Advanced (755A): Students who are eligible for this degree fulfil all the same requirements as Bachelor of Medicinal Chemistry candidates but are also eligible for additional benefits and challenges. For further information refer to the Bachelor of Science (Honours) Advanced (741A) and consult the Degree Coordinator.

## Course Program

Subjects		Session	Credit Points
First Year			
CHEM101	Chemistry 1A	Autumn	6
CHEM102	Chemistry 1B	Spring	6
BIOL103	Molecules, Cells and Organisms	Spring	6
BIOL104	Evolution, Biodiversity & Environment	Autumn	6
or			
BMS103	Human Growth, Nutrition & Exercise	Autumn	6
BMS101	Systemic Anatomy	Autumn	6
STAT252	Statistics for the Natural Sciences	Spring	6
BMS112	Human Physiology I: Principles & Systems	Spring	6
MATH151	General Mathematics 1A (if required)	Autumn or Summer	6
or			
PHYS131	Physics for Environmental & Life Sciences	Autumn	6
Second Year			
CHEM211	Inorganic Chemistry II	Autumn	6
CHEM212	Organic Chemistry II	Autumn	6
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
CHEM214	Analytical & Environmental Chemistry II	Spring	6
BIOL213	Principles of Biochemistry	Autumn	6
BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	The Biochemistry of Energy and Metabolism	Spring	6
BIOL215	Introductory Genetics	Spring	6
BMS202	Human Physiology II: Control Mechanisms	Autumn	6
Third Year			
CHEM320	Biological Chemistry	Spring	8
CHEM321	Organic Synthesis & Reactivity	Spring	8
CHEM330	Medicinal Chemistry	Spring	8
CHEM350	Principles of Pharmacology	Autumn	8
CHEM364	Molecular Structure and Spectroscopy	Autumn	8
BIOL320	Molecular Cell Biology	Autumn	8
Fourth Year			
CHEM440	Selected Topics in Medicinal Chemistry	Annual	16
CHEM460	Medicinal Chemistry Project	Annual	32
*Restricted access: Credit average minimum entry requirement			

\*Restricted access: Credit average minimum entry requirement

## Honours

The Degree of Bachelor of Medicinal Chemistry (Honours) is awarded for meritorious performance in 3 and especially 4 year subjects.

## Professional Recognition

Accreditation by the Royal Australian Chemical Institute.

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinator is Dr Paul Keller, Room 18.222, telephone: 4221 4692, email: [keller@uow.edu.au](mailto:keller@uow.edu.au).

## Bachelor of Nanotechnology, Bachelor of Nanotechnology Advanced

Testamur Title of Degree:	Bachelor of Nanotechnology, Bachelor of Nanotechnology Advanced
Abbreviation:	B Nanotech, B Nanotech Adv
Home Faculty:	Science
Duration:	4 years
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	846, 846A
UAC Code:	757625, 757626
CRICOS Code:	051709G, 052459A

## Overview

This interdisciplinary degree in Nanotechnology is a joint offering from the Faculties of Engineering and Science. The degree targets the emerging field of nano-materials, molecular machines and nano-science.



There are a total of 5 elective subjects giving students scope to match the course to their interests whilst retaining a core focus on molecular design and characterization of materials at the nano-dimension. The course includes four specially designed subjects that will be mainly research oriented and combine lectures, laboratory and project work. This will give students from first year onwards a taste of where leading research in nanotechnology is heading.

### Entry Requirements / Assumed Knowledge

Bachelor of Nanotechnology (846): New South Wales HSC University Admission Index (UAI) of 85 (or equivalent). The UAI is reviewed each year.

Bachelor of Nanotechnology Advanced (846A): New South Wales HSC University Admission Index (UAI) of 90 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Chemistry or Physics and Mathematics. Students who have not completed Chemistry at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

### Course Requirements

Bachelor of Nanotechnology (846): This is a prescribed program of study comprising core and optional subjects as set out below.

Bachelor of Nanotechnology Advanced (846A): Students who are eligible for this degree fulfil all the same requirements as Bachelor of Nanotechnology candidates but are also eligible for additional benefits and challenges. For further information refer to the Bachelor of Science (Honours) Advanced (741A) and consult the Degree Coordinator.

### Course Program

Subjects		Session	Credit Points
<b>First Year</b>			
CHEM101/CHEM104	Introductory Chemistry	Autumn	6
PHYS141	Fundamentals of Physics A	Autumn	6
MATH187/MATH141	Mathematics 1A Part 1/1C Part 1	Autumn	6
NANO101	Current Perspectives in Nanotechnology	Spring	6
CHEM102/CHEM105	Physical/Organic Chemistry	Spring	6
ENGG153	Engineering Materials	Autumn	6
PHYS142	Fundamentals of Physics B	Spring	6
MATH188	Mathematics 1A Part 2	Spring	6
<b>Second Year</b>			
CHEM212	Organic Chemistry II	Autumn	6
MATE201	Structure and Properties of Materials	Autumn	6
PHYS205	Advanced Modern Physics	Autumn	6
NANO201	Research Topics in Nanotechnology	Spring	6
CHEM213	Molecular Structure, Reactivity and Change	Spring	6
CHEM211	Inorganic Chemistry II	Spring	6
Plus two of the following electives:			
<b>Materials Chemistry Stream</b>			
CHEM214	Analytical and Environmental Chemistry	Spring	6
MATE204	Mechanical Behaviour	Spring	6
MATE291	Engineering Computing and Laboratory Skills	Autumn	6
<b>Physics Stream</b>			
MATH283	Mathematics IIE for Engineers Part 1	Autumn	6
PHYS263	Photonics		6
<b>Mechatronics Stream</b>			
ENGG152	Engineering Mechanics	Spring	6
ENGG154	Engineering Design for Innovation	Autumn	6
<b>Other subject options</b>			
BIOL103	Molecules, Cells and Organisms	Spring	6
<b>Third Year</b>			
CHEM364	Molecular Structure and Spectroscopy	Autumn	8
MATE202	Thermodynamics and Phase Equilibria	Autumn	6
NANO301	Research Project in Nanomaterials	Autumn	8
CHEM301	Advanced Materials and Nanotechnology	Spring	8
MATE303	Ceramics, Glasses and Refractories	Spring	6
Plus two electives			
<b>Materials Chemistry Stream</b>			
CHEM321	Organic Synthesis and Reactivity	Spring	8
CHEM314	Instrumental Analysis	Autumn	8
CHEM320	Bioinformatics: From Genome to Structure	Spring	8
MATE301	Engineering Alloys	Autumn	6
MATE306	Degradation of Materials	Spring	6
<b>Physics Stream</b>			
PHYS305	Quantum Mechanics	Autumn	6

PHYS363	Advanced Photonics		6
<b><i>Mechatronics Stream</i></b>			
ENGG251	Mechanics of Solids	Autumn	6
MECH215	Fundamentals of Machine Component Design	Spring	6
<b>Other subject options</b>			
BIOL213	Principles of Biochemistry	Autumn	6
BIOL214	Metabolic Biochemistry	Spring	6
<b>Fourth Year</b>			
MATE302	Polymeric Materials	Autumn	6
MATE411	Advanced Materials	Autumn	6
NANO401	Major Project Thesis in Nanotechnology	Annual	24
MATE412/PHYS396	Electronic Materials	Spring	6
<i>Plus one elective from the General Schedule</i>			6

## Honours

The Degree of Bachelor of Nanotechnology (Honours) is awarded for meritorious performance in 3 and especially 4 year subjects.

## Professional Recognition

Students may choose options enabling them to graduate and be eligible for accreditation with the Royal Australian Chemical Institute (RACI).

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481. Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinators are Associate Professor Will Price, Room 18.102A, and Associate Professor Geoff Spinks, Room 41a.271, telephone 4221 3010.

## Bachelor of Science / Bachelor of Arts

Testamur Title of Degree:	Bachelor of Science / Bachelor of Arts
Abbreviation:	BSc-BA
Home Faculty:	Science
Duration:	At least 4 years
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	747A
UAC Code:	751801
CRICOS Code:	012098G

## Overview

This double degree enables students to undertake comprehensive majors in both Science and Arts.

## Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 78 (or equivalent). The UAI is reviewed each year.

**Assumed Knowledge:** Any two units of English plus Mathematics and any four units of science. Students wishing to take this subject and who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

Students must consult both the Faculty of Science and the Faculty of Arts academic advisers about selecting a major study from each Faculty.

The required 216 credit points taken over at least 4 years shall include:

- (1) 90 credit points of subjects from the Science Schedule (including a minimum of 60 credit points for a Science specialisation);
- (2) the subjects prescribed for one of the majors for the Bachelor of Arts degree; this will include one major study taught by a member unit of the Faculty of Arts or a major in Psychology or Population Health;
- (3) not more than 96 credit points for 100-level subjects.

## Honours

Students who complete the double degree with the required academic standard in the relevant major are eligible for entry into either BSc (Honours) or BA (Honours).

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481, email [patmac@uow.edu.au](mailto:patmac@uow.edu.au). Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinator is the Associate Dean, Associate Professor Ted Bryant, 41.259.

## Bachelor of Science / Bachelor of Commerce

Testamur Title of Degree:	Bachelor of Science / Bachelor of Commerce
Abbreviation:	BSc-BCom
Home Faculty:	Science
Duration:	At least 4 years
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	747C
UAC Code:	751802
CRICOS Code:	028399G

## Overview

This double degree enables students to undertake comprehensive majors in both Science and Commerce.

## Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 80 (or equivalent). The UAI is reviewed each year.

**Assumed Knowledge:** Any two units of English plus Mathematics and any four units of science. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year. Students without at least Mathematics Band 4 may take a special Maths subject in the first year or consider early entry to complete this subject in Summer Session prior to commencement of the course.

## Course Requirements

Students must consult both the Faculty of Science and the Faculty of Commerce academic advisers about selecting a major study from each Faculty.

The double degree consists of a minimum of 216 credit points taken over at least 4 years and shall include:

1. 90 credit points of subjects from the Science Schedule (including a minimum of 60 credit points for a Science major);
2. subjects from the Commerce Schedule, including core subjects that satisfy the requirements of one of the Commerce majors.
3. subjects from the Science, Commerce or General Schedules to ensure that a minimum of 216 credit points have been completed.

Note: Students may be given exemption from a subject when similar subjects exist in both majors selected, eg. Statistics.

## Honours

Students who complete the double degree with the required academic standard in the relevant major are eligible for either BSc (Honours) or BCom (Honours).

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481, email [patmac@uow.edu.au](mailto:patmac@uow.edu.au). Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/). The Degree Coordinator is the Associate Dean, Associate Professor Ted Bryant, 41.259.

## Bachelor of Science / Bachelor of Mathematics

Testamur Title of Degree:	Bachelor of Science / Bachelor of Mathematics
Abbreviation:	BSc-BMath
Home Faculty:	Science
Duration:	4.5 years
Total Credit Points:	216
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	794
UAC Code:	Code required for 2005
CRICOS Code:	048495J

## Overview

This double degree allows students with a strong Mathematics background to pursue major in an area of Mathematics while at the same time majoring in one of the disciplines offered by the Faculty of Science.

There is potential for students who are well trained in Mathematics/Statistics to excel in core studies in the Science Faculty (for example Geographical Information Systems, Ecology, Biotechnology). Such students would be very competitive in job markets and highly trained to carry out further study in a research degree.

## Entry Requirements / Assumed Knowledge

New South Wales HSC University Admission Index (UAI) of 78 (or equivalent). The UAI is reviewed each year.

Assumed Knowledge: Two unit Mathematics or higher plus any two units of English, and any two units of Science. Students who have not completed Chemistry and/or Biology at the HSC are strongly recommended to enrol in bridging courses offered in February each year.

## Course Requirements

The double degree consists of 216 credit points of which 102 credit points are for Mathematics/Statistics subjects, 90 credit points for Science subjects (including a major), and 24 credit points of elective subjects.

The degree must include:

### 1. From Science:

- 24 credit points at 100 level in two discipline areas of Biology, Chemistry or Geosciences
- 24 credit points at 200 level from at least one major in Biology, Chemistry or Geosciences
- 24 credit points at 300 level from at least one major in Biology, Chemistry or Geosciences
- A total of 60 credit points from a major in Biology, Chemistry or Geosciences
- A total of 90 credit points from the Science schedule

### 2. From Mathematics/Statistics:

- MATH187 and MATH188
- CSCI114
- MATH111 or MATH212
- MATH121 or MATH222
- STAT131 or STAT231 (to be chosen in consultation with an academic advisor)
- MATH201, MATH202, MATH203 and MATH204
- MATH212 or MATH222
- At least 36 credit points of 300 level mathematics and statistics

### 3. Not more than 60 credit points can be taken at 100 Level

Notes:

1. The subjects MATH302, MATH305, MATH312 and MATH313 are recommended for students majoring in Mathematics but are not compulsory.
2. The subject MATH222 is a prerequisite for the subjects MATH323 and MATH372.
3. The Assoc Dean of Science must approve variations in course structure after consultation with the relevant subject coordinator(s).
4. STAT131 and CSCI114 may be taken in the first year.
5. Students wishing to major in Statistics should complete all the statistics subjects listed in the suggested program of study.
6. STAT131 or STAT231 can be substituted for STAT252, which is required or recommended in some Science majors.
7. Students majoring in Statistics satisfy any requirement for STAT252 in a Science major.

## Honours

Students who complete the double degree with the required academic standard in the relevant major are eligible for entry into either BSc (Honours) or BMath (Honours).

## Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481, email [patmac@uow.edu.au](mailto:patmac@uow.edu.au) .  
Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/) . The Degree Coordinator is the Associate Dean, Associate Professor Ted Bryant, 41.259, telephone 4221 3172, email [ebryant@uow.edu.au](mailto:ebryant@uow.edu.au) .