

University of Wollongong

**POSTGRADUATE  
HANDBOOK 2007**

CALENDAR SERIES  
VOLUME 2



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## About this Handbook

**Course and Subject** information is provided under separate Faculty chapters.

**Course** information includes: Faculty; campus; course code; duration; total credit points; mode of delivery; course description; course program; entry requirements; advanced standing; and information about honours.

**Subject** information includes: subject description; subject code; credit points; session of offer; campus; and pre-requisites.

For information on the **Rules and Policies** of the University which govern many aspects of study and other activities at the University, please see the Calendar of Governance, Rules and Policy.

## More Course and Subject Information Online

The University website ([www.uow.edu.au](http://www.uow.edu.au)) contains comprehensive information for prospective and current students. Course and subject information online is more detailed and current than the information contained in this Handbook because it is updated regularly throughout the year.

### The Course Finder Database

The primary source of information for prospective students, the CourseFinder database provides additional information than that contained in this Handbook, including information about employment opportunities, the UAI required for entry, language requirements, scholarships etc. The CourseFinder database can be assessed online at [www.uow.edu.au/prospective/](http://www.uow.edu.au/prospective/).

### Course Information

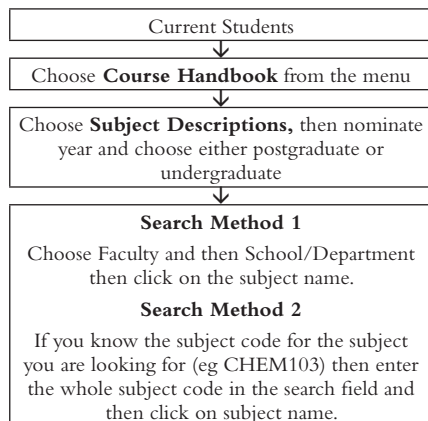
The primary source of information for current students, the online Course Handbook 2007 can be assessed at [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/) or via the Current Students homepage at [www.uow.edu.au/student/](http://www.uow.edu.au/student/).

This online version provides more detailed information about how to design your program of study, as well as current information on course rules and policies. You can also access detailed subject descriptions through this web page.

### Subject Database

The online subject database contains more detailed information about individual subjects. Additional details include: subject objectives, lecturer details, co-ordinator details and textbook information. Enter via [www.uow.edu.au/handbook/](http://www.uow.edu.au/handbook/).

### How to Find Subject Information online



### Timetable Information

You can find out when your subjects have been scheduled and the teaching facility in which your class is located by searching online at [www.uow.edu.au/student/timetables/](http://www.uow.edu.au/student/timetables/).

Individual timetables are provided for each campus. In addition, you can use SOLS to nominate your tutorial and practical preferences for most subjects at [www.uow.edu.au/student/tps/](http://www.uow.edu.au/student/tps/).

# Faculty of Arts

## Member Units

School of English Literatures, Philosophy and Languages  
 School of History and Politics  
 School of Social Sciences, Media and Communication  
 The Centre for Asia Pacific Social Transformation Studies (CAPSTRANS)

## Courses Offered

### Research Degrees

Doctor of Philosophy  
 Master of Arts – Research  
 Master of Social Change and Development – Research

### Coursework Degrees

Master of English Literatures  
 Master of International Relations  
 Master of Social Change and Development  
 Graduate Diploma in Arts (Japanese)\*  
 Graduate Diploma in Arts (Modern Languages)  
 Graduate Certificate in Social Change and Development

\*Please note, this degree has an interview selection process conducted in August/September prior to the year of study.

### Major Research Themes

Asia-Pacific Studies (includes the ARC Key Centre for Asia-Pacific Social Transformation Studies – CAPSTRANS)  
 Cultural Transformation  
 Democracy, Values and Public Reasoning  
 Hegemony  
 Identity  
 – Nations and Minorities (includes the Centre for Canadian/Australian Studies)  
 – Gender and Sexuality  
 Language and Society  
 War and State Development

For more information on Research in Arts, please see:

[www.uow.edu.au/arts/research/index.html](http://www.uow.edu.au/arts/research/index.html)

[www.uow.edu.au/research/clusters/SocScEducHumanities.html](http://www.uow.edu.au/research/clusters/SocScEducHumanities.html)

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Doctor of Philosophy

Testamur Title:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Faculty of Arts
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	48 per year
Delivery Mode:	Supervised individual research
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	201
CRICOS Code:	003065C

## Overview

The research involved in producing a doctoral (PhD) dissertation involves a significant contribution to a field of knowledge. This degree is the pinnacle of academic achievement, and normally a necessary requirement for permanent academic employment at a university or research centre.

## Entry Requirements

To enrol in the degree, students need a Bachelor of Arts (or equivalent qualification) with Honours at Class II Division ii or higher, or a Master of Arts – Research with a strong performance in the major thesis.

## Course Requirements

The Doctoral Thesis must be a minimum of 80,000 words and no longer than 100,000 words in length. The thesis will be on a topic to be decided by the student in consultation with the appointed supervisors.

Each PhD candidate has two supervisors. Before accepting a PhD candidate, the Faculty will ensure that adequate supervision and facilities for the proposed work are available.

A full-time candidate should normally complete the Doctorate in three years. The Faculty requires the candidate to complete in not less than four (4) consecutive sessions (not including Summer sessions), and not more than eight (8) consecutive sessions (not including Summer sessions), from the date of registration. A part-time candidate shall complete the Doctoral Thesis in not less than eight (8) consecutive sessions (not including Summer sessions), and not more than sixteen (16) consecutive sessions (not including Summer sessions), from the date of registration. Under special circumstances, candidates may be extended beyond the maximum time period following a satisfactory review of progress.

## Fields of Study

Students of the Faculty enrol for the PhD in one of the following discipline or interdisciplinary areas, related to one of the Faculty's major research themes.

- Asia-Pacific Studies
- Communications
- English Literatures
- French
- History
- International Relations
- Italian
- Japanese
- Linguistics
- Media and Cultural Studies
- Philosophy
- Politics
- Science, Technology and Society
- Sociology

## Assessment

Students meet regularly with their supervisors to ensure that they are proceeding to plan. On commencement, candidates and their supervisors complete a Confirmation of Candidature Form that identifies key milestones, resource needs, and skills required for completion of the research project. This is followed by a First Year Research Proposal Review towards the end of the first year of candidature. In addition, each year the student and supervisors must submit a progress report. The Annual Progress Report (APR) is the means by which the University assesses whether the candidature will continue into the following year. Supervisors who are concerned about a student's progress may also initiate a progress review at other times during a student's candidature.

When the thesis is submitted, it is examined by two external examiners chosen from a list prepared by the supervisors in consultation with the student.

Students are advised to consult the University's Code of Practice – Supervision at the following web address: [www.uow.edu.au/handbook/codesofprac/cop\\_supervision.html](http://www.uow.edu.au/handbook/codesofprac/cop_supervision.html)

For further information about the Faculty's research themes and researchers, please consult the Faculty website at: [www.uow.edu.au/arts/](http://www.uow.edu.au/arts/)

For more technical information about the degree process, please consult the website of the University's Office of Research at: [www.uow.edu.au/research/rsc/](http://www.uow.edu.au/research/rsc/)

## Master of Arts - Research

Testamur Title:	Master of Arts (Research)
Abbreviation:	MA - Res
Home Faculty:	Faculty of Arts
Duration:	1-1.5 years full-time or part-time equivalent
Total Credit Points:	72 (or 48 with entry from BA (honours) or equivalent)
Delivery Mode:	Supervised research (with entry from BA (Hons.) With entry from BA (Pass), 24 credit points of coursework will be required
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1301
CRICOS Code:	042530D

## Overview

The Master of Arts – Research can be a research-only degree, where the candidate holds an undergraduate-degree with a substantial research component. Where the candidate has an undergraduate Pass degree, s/he will undertake 24 credit points of coursework in areas aimed at research training. The candidate must complete a substantial thesis (around 50,000 words).

Important Note: This course has replaced the former Master of Arts (Honours) by Research. Students currently enrolled in that course may complete the degree under that course title and course code, but it is closed to new enrolments.

## Entry Requirements

There are two entry points for this degree:

1. From the Bachelor of Arts. Students entering the degree from the Bachelor of Arts (Pass) degree will complete a 72 credit point degree, consisting of the 24 credit point subject ARTS901 Master of Arts Research Methods or other equivalent research training coursework and, subject to satisfactory completion of the coursework component (see below in Program Structure), a 48 credit point thesis on a disciplinary or interdisciplinary topic.
2. From the Bachelor of Arts (Honours) or the Master of Arts by Coursework (or equivalent qualification). Students having a Bachelor of Arts with Honours Class II, division ii or higher, or a Master of Arts by Coursework (or equivalent) with an average of at least 70% may apply for admission into the Master of Arts – Research degree with Advanced Standing for the 24 credit points of coursework. They will then complete a 48 credit point thesis in a discipline or interdisciplinary area.

All applications must be approved by the Head of Postgraduate Studies (HPS) in the relevant School. Approval also depends on the availability of supervision within the Faculty for the proposed thesis and its relationship to the key areas of research in the Faculty, including The Centre for Asia Pacific Social Transformation Studies (CAPSTRANS).

Normally the student will have an undergraduate degree with a major in the discipline area of the proposed research, or equivalent.

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Creative Arts
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Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Course Requirements

1. Entry from the Bachelor of Arts (Pass degree) or equivalent: Students will complete one 48 credit point thesis in a field of study and the 24 credit point coursework subject, ARTS901 Master of Arts Research Methods. Students who achieve 70% or higher in ARTS901 will proceed to the thesis component of the degree. The thesis topic will be determined by discussion between the student, supervisors, and Head of Postgraduate Studies (HPS) for the relevant School. Students who achieve a Pass average in this subject will need to either re-enrol in ARTS901, or withdraw from the Master of Arts (Research) and enrol in a relevant Masters Coursework degree, and can apply for Advanced Standing for 24cp of coursework.

The 24 credit point Coursework subject, ARTS901, Master of Arts Research Methods, provides students with training in the theories and research methodologies current in the humanities and social sciences. This training involves:

- theory, methods and research techniques;
- preparation of a detailed research proposal for the Master of Arts thesis;
- any other work deemed necessary to ensure the success of the thesis.

The precise content of these modules will be determined on a case-by-case basis, with the student and the Academic Program. It will be approved by the ARTS901 Co-ordinator.

The content-based subject will normally be selected from the range of subjects available in the Master of Arts (coursework) in the student's chosen discipline or interdisciplinary area of study.

2. Entry from the BA (Honours) or equivalent: Students who have completed a Bachelor of Arts Honours degree with Class II division ii or higher, or appropriate research subjects in the Master of Arts (coursework) may apply for Advanced Standing for the 24 credit points of coursework. They will then enrol in the 48 Credit Point thesis.

## Time Limits

Full time students should complete the 72 credit point degree in no fewer than two (2) sessions (not including Summer Session) and not more than four (4) sessions (not including Summer Session). Full-time students should complete the 48 credit point course in no fewer than two (2) sessions (not including Summer Session) and not more than four (4) sessions (not including Summer Session). Part-time students should complete the course in no fewer than four (4) sessions and no more than eight (8) sessions.

## Fields of Study

- Asia-Pacific Studies
- Communications
- English Literatures
- French
- History
- International Relations
- Italian
- Japanese
- Linguistics
- Media and Cultural Studies
- Philosophy
- Politics
- Science, Technology and Society
- Sociology

## Coursework Subject

Students entering the degree from the BA (Pass) degree undertake the following subject before beginning the thesis:

Subjects	Title	Session	Credit Points
ARTS901	Master of Arts Research Methods	Autumn or Spring	24

## Assessment

Coursework: Where students must complete the 24 credit point coursework component, assessment of that part of the degree will normally be by essays and seminar papers.



Thesis: Students meet regularly with their supervisors to ensure that they are proceeding to plan. On commencement of the research component, candidates and their supervisors complete a Confirmation of Candidature Form that identifies key milestones, resource needs and skills required for completion of the research project. This is followed by a First Year Proposal review within the first year of the thesis. In addition, each year, the student and supervisors must submit a progress report. The Annual Progress Report (APR) is the means by which the University assesses whether the candidature will continue into the following year. Supervisors who are concerned about a student's progress may also initiate a progress review at other times during a student's candidature. When the thesis is submitted, it is examined by two examiners chosen by the supervisors in consultation with the student.

Students are advised to consult the University's Code of Practice – Supervision at the following web address: [www.uow.edu.au/handbook/codesofprac/cop\\_supervision.html](http://www.uow.edu.au/handbook/codesofprac/cop_supervision.html)

For further information about the Faculty's research themes and researchers, please consult the Faculty website at: [www.uow.edu.au/arts/](http://www.uow.edu.au/arts/)

For more technical information about the degree process, please consult the website of the University's Office of Research at: [www.uow.edu.au/research/rsc/](http://www.uow.edu.au/research/rsc/)

## Master of Social Change and Development - Research

Testamur Title:	Master of Social Change and Development (Research)
Abbreviation:	MSocChgDev - Res
Home Faculty:	Faculty of Arts
Duration:	1-1.5 years full-time or part-time equivalent
Total Credit Points:	72 or 48 with entry from BA (honours) or equivalent
Delivery Mode:	Supervised research (with entry from BA Hons.) With entry from BA (Pass), 24 credit points of face-to-face coursework will be required
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1321
CRICOS Code:	033020A

### Overview

The purpose of the program is to provide students with the opportunity to undertake research at an advanced level and to gain the knowledge and skills to understand the processes of social change and development. The Faculty's teaching program complements the research programs in the Centre for Asia-Pacific Social Transformation Studies (CAPSTRANS) so that all courses are informed by the most recent high quality research. Students are offered the opportunity to study in a research and teaching faculty with extensive international networks staffed by some of the best scholars in their respective fields.

The Master of Social Change and Development – Research provides students with a new approach to comparative Asia-Pacific studies that transcends the limited focus of conventional development studies. Social transformation studies are innovative in terms of thinking and research, and the Asia-Pacific region offers unique insights into social change triggered by national and international development policies and their effects at local, regional and transnational levels. Unlike traditional development studies courses that provide a largely econometric analysis of development, we focus on a critical sociology and critical political economy of social change.

All subjects are oriented to developing problem-solving skills grounded in specific processes within the general rubric of social transformation; increasing research and policy analysis skills through subjects in policy and program evaluation; and an emphasis on student-directed learning via the use of online learning. We prepare our graduates to work in a broad range of development-related areas.

The Master of Social Change and Development – Research can be a research-only degree, where the candidate holds an undergraduate degree with a substantial research component, normally Honours or equivalent. Where the candidate has an undergraduate Pass degree, s/he will undertake 24 credit points of coursework in areas aimed at research training. The candidate must complete a substantial thesis (around 50,000 words).

### Entry Requirements

There are two entry points for this degree:

1. From the Bachelor of Arts. Students entering the degree from the Bachelor of Arts (Pass) degree will complete a 72 credit point degree, consisting of 24 credit points of coursework chosen from CAPSTRANS subjects listed below, and subject to satisfactory completion of the coursework component, a 48 credit point thesis in a discipline or interdisciplinary area.
2. From the Bachelor of Arts (Honours) or the Master of Arts by Coursework (or equivalent qualification). Students

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Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

having a Bachelor of Arts with Honours Class II, division ii or higher, or a Master of Arts by Coursework (or equivalent) with an average of at least 70% may apply for admission into the Master of Social Change and Development - Research degree with Advanced Standing for the 24 credit points of coursework. They will then complete a 48 credit point thesis in a discipline or interdisciplinary area.

## Course Requirements

### Program Structure

1. Entry from the Bachelor of Arts (Pass degree) or equivalent: Students will complete one 48 credit point thesis in a field of study and 24 credit points of coursework to be chosen from the subjects listed below. Students who achieve 70% or higher in the coursework component of the degree will proceed to the thesis component of the degree. Students who achieve a Pass average in this subject will be offered the opportunity to transfer to the Master of Social Change and Development by Coursework with 24 credit points of Advanced Standing. The thesis topic will be determined by discussion between the student and the Postgraduate Co-ordinator.
2. Entry from the BA (Honours) or equivalent: Students who have completed a Bachelor of Arts Honours degree with Class II division ii or higher, or appropriate research subjects in the coursework Masters degree, may apply for Advanced Standing for the 24 credit points of coursework. They will then complete a 48 credit point thesis in a discipline or interdisciplinary area.

## Time Limits

Full time students should complete the 72 credit point degree in no fewer than two (2) sessions (not including Summer Session) and not more than four (4) sessions (not including Summer Session)). Full-time students should complete the 48 credit point course in no fewer than two (2) sessions (not including Summer Session and not more than four (4) sessions (not including Summer Session)). Part-time students should complete the course in no fewer than four (4) sessions and no more than eight (8) sessions.

Each Research candidate has two supervisors. Before accepting a research candidate, the Faculty will ensure that two supervisors with appropriate expertise are available.

For further information about the Faculty's research themes and researchers, please consult the Faculty website at: [www.uow.edu.au/arts/](http://www.uow.edu.au/arts/)

For more technical information about the degree process, please consult the website of the University's Office of Research at: [www.uow.edu.au/research/rsc/](http://www.uow.edu.au/research/rsc/)

## Coursework Subjects

Students entering from the BA (pass degree) must choose 24 credit points from the following\*:

Subjects	Title	Session	Credit Points
<b>Core Subjects: Students must select two subjects</b>			
SMAC910	Transforming Asia: Trends, Issues and Problems	Autumn	8
CAPS911	Social Change and Development	Autumn	8
CAPS915	Migration and Labour Mobility	Spring	8
SOC 904	Principles of Social Impact Assessment	Spring	8
<b>Elective Subjects: Students select one subject</b>			
CAPS910	Globalisation and Citizenship	Autumn	8
CAPS918	Special Topic A	Autumn /Spring	8
CAPS919	Special Topic B	Autumn /Spring	8

\*The course co-ordinator may approve the substitution of other subjects.

## Assessment

Coursework: Where students must complete the 24 credit point coursework component, assessment of that part of the degree will depend on the modules chosen, but it will normally be by essays and seminar papers.

Thesis: Students meet regularly with their supervisors to ensure that they are proceeding to plan. On commencement of the research component, candidates and their supervisors complete a Confirmation of Candidature Form that identifies key milestones, resource needs and skills required for completion of the research project. This is followed by a First Year review within the first year of the thesis. In addition, each year, the student and supervisors must submit a progress report. The annual progress report is the means by which the University assesses whether the candidature will continue into the following year. Supervisors who are concerned about a student's progress may also initiate a progress review at other times during a student's candidature.

When the thesis is submitted, it is examined by two examiners chosen from a list prepared by the supervisors in consultation with the student.

Students are advised to consult the University's Code of Practice – Supervision at the following web address: [www.uow.edu.au/handbook/codesofprac/cop\\_supervision.html](http://www.uow.edu.au/handbook/codesofprac/cop_supervision.html)

## Master of English Literatures

Testamur Title:	Master of English Literatures
Abbreviation:	MEL
Home Faculty:	Faculty of Arts
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1555
CRICOS Code:	053880B

### Overview

The Master of English Literatures provides an opportunity for students to extend and deepen their knowledge of literature studies and skills in textual analysis, possibly as part of professional advancement or to pursue an interest in the subject. The course consists of:

1. Five subjects in areas of study which reflect the research strengths of the English Literatures program;
2. One compulsory subject, ENGL903 Research Methods, in which students are trained in research skills which they then apply in the writing of a 5000 word paper on a topic of their choice in English literary studies. Students may be permitted to complete ARTS901 Master of Arts Research Methods in place of ENGL903 with prior approval of the Course Coordinator.

Apart from ENGL903, subject offerings will be varied from year to year. Breadth is provided in geographical coverage, with classes in American, Australian and British writing, plus texts from across the English-speaking world. Depth comes with conceptual packages addressing theoretical issues such as the canon and constructions of literary history, indigeneity and the roles of memory and forgetting in writing, with in-depth study in specific subject areas.

### Entry Requirements

Entry to the degree is normally from the Bachelor of Arts degree with a major in literary studies, but students with an equivalent qualification will also be considered.

### Course Requirements

Students take ENGL903 plus five subjects from the schedule of subjects below (48 credit points).

Subjects	Title	Session	Credit Points
<b>Compulsory subject for all students</b>			
ENGL903	Research Methods	Autumn	8
<b>Electives (Students select five subjects from the list below)</b>			
ENGL906	Modernism and its Others	Autumn	8
ENGL913	Literature, Memory and Forgetting	Spring	8
ENGL916	US Literature: Modernity and Post-Modernity	Spring	8
ENGL918	Special Topic	Autumn or Spring	8
ENGL921	Turning Points: An Introduction to Post-Colonial Literary History	Autumn	8
ENGL923	Indigenous Literatures in Canada, New Zealand and Australia	n/o 2007	8
ENGL930	History and Romance in Early Modern Britain	n/o 2007	8
ENGL933	Early Women Writers	n/o 2007	8
ENGL944	The Dominant Sound: Australian Women Novelists Between the Wars	n/o 2007	8
ENGL945	Contemporary Life Writing	Spring	8

# Master of International Relations

Testamur Title:	Master of International Relations
Abbreviation:	MIR
Home Faculty:	Faculty of Arts
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1556
CRICOS Code:	053406F

## Overview

The degree is intended to provide opportunities for graduates of diverse disciplinary backgrounds to develop their academic understanding and professional skills in the field of international relations, broadly defined. The program is expected to be especially useful to students with relevant, professional experience or ambitions, including diplomats, other government officials, people in business, journalists, specialists in public affairs, government relations, and non-government organisations.

The degree program focuses on international politics, the history of diplomacy and diplomatic practice, international law and international political economy. Students may choose further specialisation within the program and they may undertake supervised research topics.

## Entry Requirements

Students normally have a Bachelor's degree with a major or minor sequence in politics, history, law, economics or a related social science discipline.

## Course Requirements

Students must complete 48 credit points from the following list of subjects (or such greater number as may be required in individual cases).

Students are normally required to complete the four core subjects in order to graduate in the program. Please note that not all the elective subjects are available in any one year.

Subjects	Title	Session	Credit Points
<b>Core subjects: Students must complete all four core subjects</b>			
INTR900	International Law and Diplomacy	Autumn	8
INTR905	Case Studies in Diplomacy	Spring	8
INTR910	Politics of International Relations	Autumn	8
INTR920	Advanced International Economic Relations B	Spring	8
<b>Elective Subjects*</b>			
INTR911	Politics in the South Pacific	Spring	8
INTR912	Pacific Rim and Pacific Basin	n/o 2007	8
INTR931	Public Policy	n/o 2007	8
INTR940	A Study of International Relations A	Autumn	8
INTR941	A Study of international Relations B	Spring	8
INTR957	Post-War Economic and Social Development in the Asia-Pacific	Autumn	8
INTR960	Research Project in International Relations	Annual	16
INTR961	Research Project in International Relations	Spring	16

\* Core subjects in the Master of Social Change and Development (CAPSTRANS) can be taken as electives with prior approval of the course coordinator.

# Master of Social Change and Development

Testamur Title:	Master of Social Change and Development
Abbreviation:	MSocChgDev
Home Faculty:	Faculty of Arts
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1508
CRICOS Code:	031164A

## Overview

This degree (48 credit points by coursework) is designed to provide students with the knowledge and skills to understand the processes of social change and development, and to improve their problem solving skills and effectiveness as administrators, researchers, development planners, educators, or managers. The course combines theoretical perspectives with empirical studies and policy-oriented perspectives.

The MSCD is a one-year full-time program (or part-time equivalent) that provides a comprehensive introduction to the field of social transformation studies. It also provides a convenient route towards a PhD degree or Masters by research.

The Faculty's teaching program complements the research programs in the Centre for Asia-Pacific Transformation Studies (CAPSTRANS) so that all courses are informed by the most recent high quality research. Students are offered the opportunity to study in a research and teaching faculty with extensive international networks staffed by some of the best scholars in their respective fields.

The Master of Social Change and Development provides students with a new approach to comparative Asia-Pacific studies that transcends the limited focus of conventional development studies. Social transformation studies are innovative in terms of thinking and research and the Asia-Pacific region offers unique insights into social change triggered by national and international development policies and their effects at local, regional and transnational levels. Unlike traditional development studies courses that provide a largely econometric analysis of development, the focus of this course is on a critical sociology and critical political economy of social change.

All subjects are oriented to developing problem-solving skills grounded in specific processes within the general rubric of social transformation; increasing research and policy analysis skills through subjects in policy and program evaluation; and an emphasis on student-directed learning via the use of online learning. We prepare our graduates to work in a broad range of development-related areas.

## Entry Requirements

Students normally have a Bachelors degree with a minor sequence in the area studied.

## Course Requirements

Masters of Social Change and Development students will complete subjects to the value of 48 credit points.

Subjects	Title	Session	Credit Points
<b>Compulsory Subjects:</b>			
SMAC910	Transforming Asia: Trends, Issues and Problems	Autumn	8
CAPS911	Social Change and Development	Autumn	8
CAPS915	Migration and Labour Mobility	Spring	8
SOC 904	Principles of Social Impact Assessment	Spring	8
<b>Electives: Students must complete subjects to the value of 16 credit points*</b>			
CAPS910	Globalisation and Citizenship	Autumn	8
CAPS918	Special Topic A	Autumn, Spring	8
CAPS919	Special Topic B	Autumn, Spring	8
CAPS935	Research Project in Social Change and Development	Annual, Autumn/ Spring	16
ELL 902	English for Postgraduate Studies I (Arts)	Autumn	8
ELL 904	English for Postgraduate Studies II (Arts)	Spring	8

INTR910	Politics of International Relations	Autumn	8
INTR912	Pacific Rim and Pacific Basin	n/o 2007	8
INTR931	Public Policy	n/o 2007	8
INTR920	Advanced International Economic Relations B	Spring	8
INTR957	Post-War Economic and Social Development in the Asia – Pacific	Autumn	8

\*The Course Co-ordinator may approve the substitution of other relevant subjects.

## Graduate Diploma in Arts (Japanese)

Testamur Title:	Graduate Diploma in Arts (Japanese)
Abbreviation:	GDipArts
Home Faculty:	Faculty of Arts
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn or Spring
Location:	Japan
UOW Course Code:	647
CRICOS Code:	026343G

### Overview

The Graduate Diploma in Arts (Japanese) is a twelve-month, 48 credit point, Japanese language program.

The purpose of the Graduate Diploma in Arts (Japanese) is to provide candidates with one year as a full-time student at a Japanese University with which the University of Wollongong has an exchange agreement. The Diploma is awarded after successful completion of the exchange University's course and examination upon return to the University of Wollongong.

### Entry Requirements

Minimum requirement for entry: a degree at Bachelor level, preferably in Japanese language. (This degree is not intended for students whose first language is Japanese). Please note, this degree has an interview selection process conducted in August/September prior to the year of study. Please contact the Japanese Section before this time.

### Course Requirements

Full-time students accepted for entry into the Graduate Diploma in Arts (Japanese) take the following subject:

Subjects	Title	Session	Credit Points
JAPA551	Japanese Studies Abroad	Autumn and Spring	24 per session

### Assessment

Assessment is conducted at the exchange university in Japan and will depend on the program of study each student selects. After one year of study at the exchange university in Japan, candidates will be required to pass an exit examination at the University of Wollongong. The Graduate Diploma from the University of Wollongong will be awarded upon successful completion of these requirements.

## Graduate Diploma in Arts (Modern Languages)

Testamur Title:	Graduate Diploma in Arts (Modern Languages)
Abbreviation:	GDipArts
Home Faculty:	Faculty of Arts
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Mostly face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	647
CRICOS Code:	026343G

### Overview

The purpose of the Graduate Diploma in Arts is to provide, in a recognised university course, a means for graduates with limited acquaintance with European or Asian languages, thought and culture to acquire competence in these areas at a reasonably advanced level.

### Entry Requirements

Minimum requirement for entry: a degree at Bachelor level.

### Course Requirements

Students are required to complete 28 credit points from Undergraduate Language subjects. The remaining 20 credit points may be chosen from subjects listed under Modern Languages or other Programs in the Arts Course Structures. These will be approved by the Head of the Modern Languages Program.

### Assessment

Assessment is by individual subject and will depend on the student's pattern of study. The Modern Languages program uses continuous assessment in all its subjects to ensure that students' progress is monitored throughout the course.

## Graduate Certificate in Social Change and Development

Testamur Title:	Graduate Certificate in Social Change and Development
Abbreviation:	GCertSocChgDev
Home Faculty:	Faculty of Arts
Duration:	1 session full-time or part-time equivalent
Total Credit Points:	24
Delivery Mode:	Flexible
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1133
CRICOS Code:	033256C

### Overview

The three subjects making up this program focus on the Asia-Pacific region. The program emphasises social transformation studies.

The Faculty's teaching program complements the research programs in the Centre for Asia-Pacific Transformation Studies (CAPSTRANS) so that all courses are informed by the most recent high quality research. Students are offered the opportunity to study in a research and teaching faculty with extensive international networks staffed by some of the best scholars in their respective fields.

### Entry Requirements

A Bachelor degree from a recognized institution with a relevant minor study sequence.

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Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Course Requirements

This is a 24 credit point program. Students will complete three subjects.

Subjects	Title	Session	Credit Points
<b>Core Subjects: (Students select two subjects)</b>			
SSMC910	Transforming Asia: Trends, Issues and Problems	Autumn	8
CAPS911	Social Change and Development	Autumn	8
CAPS915	Migration and Labour Mobility	Spring	8
SOC 904	Principles of Social Impact Assessment	Spring	8
<b>Elective Subjects: (Students select one subject*)</b>			
CAPS910	Globalisation and Citizenship	Autumn	8
CAPS918	Special Topic A	Autumn, Spring	8
CAPS919	Special Topic B	Autumn, Spring	8
ELL 902	English for Postgraduate Studies I (Arts)	Autumn	8
ELL 904	English for Postgraduate Studies II (Arts)	Spring	8
INTR910	Politics of International Relations	Autumn	8
INTR912	Pacific Rim and Pacific Basin	n/o 2007	8
INTR931	Public Policy	n/o 2007	8
INTR920	Advanced International Economic Relations B	Spring	8
INTR957	Post-War Economic and Social Development in the Asia - Pacific	Autumn	8

\* With the approval of the Course Coordinator, students may select another relevant subject.



## SUBJECT DESCRIPTIONS

### ARTS901 Master of Arts Research Methods

Autumn Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students enrolled in the Master of Arts (Research) degree with training in the theories and research methodologies current in their chosen discipline areas. This training involves three modules of study: 1. a specific theory and methods module; 2. an advanced content-based module in the student's discipline area and 3. a module in which the student writes a detailed research proposal for the Master of Arts thesis. Students who have completed a Bachelor of Arts (Honours) with Class II, division ii or above, or have completed appropriate subjects in the Master of Arts by Coursework (or equivalent), may apply for Advanced Standing for this part of the course. Students must achieve an average of 70% or higher in this subject to proceed to the thesis component of the degree.

### CAPS910 Globalisation and Citizenship

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the effects of globalisation on representations of identity and citizenship in the Asia Pacific. We will discuss contemporary challenges to state authority coming from grassroots movements for democracy and universal human rights; women's groups; gay rights; ethnic minorities and indigenous peoples seeking self-determination; and the mass migration of workers and refugees. We will consider issues such as the conflict in Aceh, the plight of refugees, the role of organised crime, and the sexual reproduction of the nation.

### CAPS911 Social Change and Development

Autumn Wollongong Flexible

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will examine the development experience of people in the new global order. It will introduce students to the debates on development that emerged following the break up of European colonial empires. It will examine the ensuing interaction between rich and poor nations, and theoretical explanations for the emergence of international disparities of wealth. The subject will pay particular attention to the ways in which neo liberal development and globalisation affect people at the local level. Focussing on the Asia-Pacific region we will explore the power laden international context in which development discourses are produced. A number of case studies will be utilised to explore local understanding of what constitutes development.

### CAPS915 Migration and Labour Mobility

Spring Wollongong Flexible

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is concerned with the ways in which migration and labour mobility have influenced social transformation in the Asia-Pacific region. It examines these issues at the conceptual level and through case studies in specific countries. Labour migration is analysed both in terms of individual migration experiences and in relation to the broader social, political and economic effects on sending and receiving countries. Themes raised include the formation of multi-ethnic societies, the development of labour movements, citizenship rights for workers and increased women's migration. Cross-disciplinary approaches will be introduced to offer a range of theoretical approaches to these issues.

### CAPS918 Special Project A

Autumn Wollongong Flexible

Spring Wollongong Flexible

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with an opportunity to engage in detailed research on a particular aspect of social change and development approved by the Course Co-ordinator. The project may focus on an issue, a policy, or a theoretical or methodological question which the student has previously encountered through reading or practical experience. Enrolment requires the Co-ordinator's approval, and may be determined by the availability of suitably qualified staff.

### CAPS919 Special Project B

Autumn Wollongong Flexible

Spring Wollongong Flexible

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with an opportunity to engage in detailed research on a particular aspect of social change and development approved by the Course Co-ordinator. The project may focus on an issue, a policy, or a theoretical or methodological question which the student has previously encountered through reading or practical experience. Enrolment requires the Co-ordinator's approval, and may be determined by the availability of suitably qualified staff.

### CAPS935 Research Project in Social Change and Development

Annual Wollongong On Campus

Autumn Wollongong On Campus

Spring Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 16

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject will consist of the execution of, and report on, a research project in consultation with, and under the supervision of, a tutor nominated by CAPSTRANS. The students will utilize theoretical and empirical material as well as data-processing and analysis skills taught in other CAPSTRANS subjects. The subject will develop the students' skills in applied empirical research and deepen their understanding of concepts and procedures

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taught in other CAPSTRANS courses by utilizing them in the context of this research. This subject is a valuable addition to student's professional portfolio.

### ELL 901 English for Postgraduate Studies 1

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ELL 902

**Subject Description:** This subject provides an overview of the kind of English used in the academic context, particularly in Postgraduate studies. It is designed for Non-English Speaking Background (NESB) students who are wanting an induction into English grammar, micro and macro writing skills and oral skills for postgraduate studies. This subject aims to identify and practice important skills related to postgraduate academic English. These skills include grammar at the level of sentence, paragraph and text; writing conventions; skills in paraphrasing and summarising, as well as practice in some of the common text types used in postgraduate writing and oral presentations including reports, explanations and expositions.

### ELL 902 English for Postgraduate Studies 1(Arts)

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ELL 901

**Subject Description:** This subject provides an overview of the kind of English used in the academic context, particularly in Postgraduate studies. It is designed for Non-English Speaking Background (NESB) students who are wanting an induction into English grammar, micro and macro writing skills and oral skills for postgraduate studies. This subject aims to identify and practice important skills related to postgraduate academic English. These skills include grammar at the level of sentence, paragraph and text; writing conventions; skills in paraphrasing and summarising, as well as practice in some of the common text types used in postgraduate writing and oral presentations including reports, explanations and expositions.

### ELL 903 English for Postgraduate Studies 2

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ELL 904

**Subject Description:** This subject provides an overview of the kind of English used in the academic context, particularly in Postgraduate studies. It is designed for Non-English Speaking Background (NESB) postgraduate students who are wanting an induction into writing and speaking for postgraduate studies. This subject aims to identify and discuss important issues related to the culture of postgraduate education; to develop academic skills relevant to postgraduate studies and thesis writing. Students will develop a critical and analytical stance to research and learning, an understanding of how the grammatical

resources of English are employed to achieve different purposes within postgraduate studies; and expertise and confidence in using a range of resources for learning.

### ELL 904 English for Postgraduate Studies 2 (Arts)

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ELL 903

**Subject Description:** This subject provides an overview of the kind of English used in the academic context, particularly in Postgraduate studies. It is designed for Non-English Speaking Background (NESB) postgraduate students who are wanting an induction into writing and speaking for postgraduate studies. This subject aims to identify and discuss important issues related to the culture of postgraduate education; to develop academic skills relevant to postgraduate studies and thesis writing. Students will develop a critical and analytical stance to research and learning, an understanding of how the grammatical resources of English are employed to achieve different purposes within postgraduate studies; and expertise and confidence in using a range of resources for learning.

### ENGL903 Research Methods

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Designed as a series of workshop seminars in parallel with research projects in other subjects. Enrolment, selection of appropriate subject or themes and readings, are subject to the approval of the Convenor of Program.

### ENGL906 Modernism's Others

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject focuses on writing from England, Europe and the Americas produced in the early 20th century - a period marked by radical questioning of the categories that defined and often determined social and self construction. Writers questioned what is meant to be human, to be civilized; they raised questions about the validity of rudimentary classification of individuals by gender, class, race, sexuality; they were fascinated with the allure of 'the other' - against which the self and its community of belonging is defined. Some writers felt themselves to be othered by western modernity; many writers feeling disaffected or disenchanted with 'the west' searched for ways to 'make it new' by looking to other cultures as represented by 'the east' or 'the primitive'; a number of modernists wrote from the position of 'the other'.

### ENGL913 Literature, Memory and Forgetting

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the role

of memory in the creation of literature, and the role of literature in the creation of personal and cultural memory. Beginning with a consideration of the notion of writing as a form of memory, it goes on to examine memory and history, identity, and national mythologies, amnesia in fiction, and futuristic memories. It examines a historically and culturally diverse range of texts, but emphasises more recent writings. The subject also covers a range of theoretical and historical perspectives on memory and writing, such as those offered by poststructuralist, feminist, and postcolonial theorists.

### ENGL916 US Literature: Modernity and Postmodernity

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject examines a variety of twentieth and twenty-first century U.S. fictional, autobiographical and journalistic prose works in relation to generic, cultural and political developments. A particular focus of the course is critical examination of the concepts of modernity, modernism, postmodernity, and postmodernism. Other topics of discussion include: the construction and articulation of racial, classed, sexual, and gendered identities; contexts of the production and consumption of individual texts; realism and non-realism as modes of writing practice; the relations of literary genres to other media such as film and TV.

### ENGL918 Special Topic

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Directed reading, research and other investigative activities at an advanced level in a field of study selected by the student in consultation with the English Studies Postgraduate Co-ordinator and approval prior to enrolling from the Convenor of Program.

### ENGL921 Turning Points: An Introduction to Post-colonial Literary History

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The course will survey novels that are the first in their field or which have become key points of reference in discussions of post-colonial writing. The subject asks such questions as: How does newness occur? What are the possibilities for post-colonial texts 'intervening' in literary practice and/or social thought to imaginatively effect cultural liberation? What are we doing when we write literary history, design courses? What use do we make of reading texts? Can we institutionalise 'reading (and writing) against the grain'?

### ENGL930 History and Romance in Early Modern Britain

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject focuses on texts which deal with history and romance in late Tudor and Stuart England, looking particularly at the way such texts deliberately lend themselves to varying readings, how they become part of the ideology of a culture, legitimating or questioning the powerful, and how both well-known and less familiar men and women writers (and readers) dealt with issues presented in the trappings of history and romance.

### ENGL933 Early Women Writers

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject looks at the work of selected women writers from the late-sixteenth century to the early eighteenth century. The texts represent a variety of different types of writing: fiction, poetry, drama, diaries, letters and autobiographical writings. The subject will examine the establishment of the female writing self within the appropriate cultural structure and historical context, and the engagement of that self with the social and literary conventions of the time. The genres and writers studied are: Fiction- Margaret Cavendish, Aphra Behn. Drama- Elizabeth Cary. Letters- Dorothy Osborne, Mary Wortley Montagu. Autobiography- Alice Thornton, Anne Clifford, Margaret Hoby, Anna Trapnel, Katharine Evans and Sarah Cheevers, Hannah Allen, Mary Carleton. Poetry- Aemilia Lanyer, Mary Wroth, Isabella Whitney. The subject can be seen as a logical follow-up for interested students from two 300 level subjects in the English Major, ENGL365 Nineteenth Century Women's Writing and ENGL345 Twentieth Century Women Writers.

### ENGL944 The Dominant Sound: Australian Women Novelists Between the Wars

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The aims of this subject are to introduce students to the literature of the twenties, thirties and forties written by women in Australia, and to explore its cultural and ideological background and to encourage students to analyse a number of unfamiliar texts and examine their place within Australian History.

### ENGL945 Contemporary Life Writing

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** Entry to Masters or Honours in English

**Co-requisites:** None

**Subject Description:** The category of life writing covers a number of literary and popular genres from traditional biography and autobiography to memoirs, diaries, auto/biographical fiction, testimonial writing, collaborative and ghost-written life stories, therapeutic writing and gossip about the rich and famous. This subject explores a range of such genres in light of recent theorising relating to the narrative construction of the self, the boundaries between fiction and non-fiction, the relationship between individuals and history and

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the workings of celebrity culture. We also consider the role of life writing in contemporary literary culture; publishers, the media, authors and readers.

### **INTR900 International Law and Diplomacy**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** Entry in the INTR Program

**Co-requisites:** None

**Subject Description:** This subject examines the foundations of international law, how it operates and how the representatives of states and international organisations ply their craft. It explores what diplomats do, and what are the limits of diplomatic action. The initial lectures provide students with the theoretical tools to understand how the system of international law has evolved and how international instruments are constructed and ratified. Specific topics that may be addressed in terms of their effect on diplomacy include: the sources of international law; the structure of the international legal system; the relationship between domestic law and international law; the law of treaties; statehood, state jurisdiction and state responsibility; personality, statehood and recognition, human rights and refugee laws.

### **INTR905 Case Studies in Diplomacy**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject deals with important examples of modern international diplomatic behaviour. It presents an overview of diplomatic practice including various theoretical and historiographical concerns. The subject examines how diplomats write and how they present national positions.

### **INTR910 Politics of International Relations**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Major theoretical traditions examined include realism, liberalism, neo-realism and neo-liberalism, rationalism, Marxist and neo-Marxist variants, critical theory, post-modernism, constructivism, and feminism. The subject then examines the end of the cold War, the demise of bipolarity, the emergence of unipolarity, and assesses the effectiveness of the United Nations, explores the north/south divide and ponders some of the causes of terrorism. It examines modern peacekeeping, rogue states and the prosecution of the War on Terror. Interspersed in the subject will be arguments over the alleged decline of the nation state, the structures and institutions that regulate the international economy, and some current opinions on hegemony.

### **INTR911 Politics in the South Pacific**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** Entry to MA INTR programme

**Co-requisites:** None

**Subject Description:** In this subject we will consider the policies adopted by the governments of a number of Pacific Island nations (including the Solomon Islands, Samoa, Vanuatu, Tonga and Fiji Islands). The

governments of these nations find that they now must manage in a globalising world that has adopted the free market principles. Their nations often lack institutional capacity; are in receipt of substantial amounts of aid; and are short of capital and human resources while having access to various levels of natural resources. The sustainable management of the latter has proved difficult.

### **INTR912 Pacific Rim and Pacific Basin**

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In this course we will examine the issues informing the politics of the countries of the Pacific Rim and Pacific Basin. We will take a geographic approach to our discussions. We will begin in the 'northeast corner' of the Pacific Rim. We will discuss the politics and interaction of China in the international sphere before we move south to consider what many now call the 'China Circle' (southeastern mainland China, Taiwan and Hong Kong). We will then canvas Japan's role in international relations before moving south to discuss some of the new 'Tiger' economies: Thailand, the Philippines, Malaysia and Indonesia. We will include discussions of regional entities such as APEC and ASIAN before we move northwest to discuss NAFTA and the role of the United States in international trade, governance and security.

### **INTR920 Advanced International Economic Relations B**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In this subject we will assume that 'globalization represents a decisive configuration of social, economic, political, and cultural changes which consequently has transformed key institutions and practices of the modern world' (See Robert O'Brien and Marc Williams, *Global Political Economy*, Palgrave, 2004, p. 9). It is in this context that we will examine a range of issues central to international political economy. We will discuss the effect of globalisation, distribution, free markets, neo-liberal ideology, protectionism, labour migration and global security on both developed and developing countries and we will examine the role international organisations including the World Bank, the International Monetary Fund (IMF), and the World Trade Organisation (WTO).

### **INTR931 Public Policy**

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines a broad range of policy areas in the (post) modern world. Students are expected to select issues for study from a range of policies including: media, industrial restructuring, political economy, education, health care, transport, defence, policing, urban and regional renewal, housing and the arts. Students are encouraged to study the impact of Globalisation and global trends on the creation and execution of public policy in advanced industrial countries. The subject offers an approach to policy studies,

which focuses on quality of life issues and outcomes. An emphasis on recent developments in Australian public policy is maintained within a comparative perspective.

### **INTR940 A Study of International Relations A**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** Average credit grade and above and the approval of MA INTR co-ordinator.

**Co-requisites:** None

**Subject Description:** The work done for this subject is expected to include a detailed analysis of a significant issue, period or actor in international relations (global governance and development). The student is expected to draw on relevant primary and secondary sources, bodies of theory and/or comparative materials. Enrolment requires the prior approval of the MA INTR co-ordinator and may depend on the availability of appropriate sources and suitably qualified staff.

### **INTR941 A Study of International Relations B**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** Average credit grade and above and the approval of MA INTR co-ordinator.

**Co-requisites:** None

**Subject Description:** The work done for this subject is expected to include a detailed analysis of a significant issue, period or actor in international relations (global governance and development). The student is expected to draw on relevant primary and secondary sources, bodies of theory and/or comparative materials. Enrolment requires the prior approval of the MA INTR co-ordinator and may depend on the availability of appropriate sources and suitably qualified staff.

### **INTR957 Postwar Economic and Social Development in the Asia-Pacific**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In this subject we will focus on the politics of the countries that have taken the Asian road to economic development. We will pay particular attention to Singapore, Thailand, Malaysia and Indonesia. The governments of these countries have provided a mixture of development incentives and controls. They have actively fostered cooperation between government and private interests, promoted the transfer and adoption of technology, and placed a premium on economic efficiency. However, these same governments, have offered only narrow electoral choices, suppressed public criticism and infringed labour rights. They have failed to uphold basic democratic and worker rights and some argue that the situation is 'a glaring weakness' that has marred the success of their developed strategies. Nevertheless, and at the same time as the criticism has been cited, those who have been keen to applaud (rather than criticise) what has come to be known as the 'Asian Development Model' decided that it was a model that may well show they way out of poverty for other developing countries. It was a model that was promoted as an illustration of 'the power of global markets to modernize the developing world

[World Bank report 1993]'. However, the problem with this latter analyses is that the financial crisis that began in the middle of 1997 and rapidly enveloped the Asian tiger economies has come to be seen by at least some observers 'as a stark lesson in globalization's [and particularly the free global market's] pitfalls'. See Mark Beeson, editor, *Contemporary Southeast Asia*, Palgrave, 2004, p.50.

### **INTR960 Research Project in International Relations**

Annual Wollongong On Campus

**Credit Points:** 16

**Pre-requisites:** Average credit grade and above and the approval of MA INTR co-ordinator

**Co-requisites:** None

**Subject Description:** The work done for this subject is expected to include a detailed analysis of a significant issue, theoretical concept, methodological question that a student has previously encountered or a specific period or actor in international relations (and/or global governance and development). The student is expected to draw on relevant primary and secondary sources, scholarly theories and concepts and/or comparative materials. Enrolment requires the prior approval of the MA INTR co-ordinator and may depend on the availability of appropriate sources and suitably qualified staff.

### **INTR961 Research Project in International Relations**

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 16

**Pre-requisites:** Average credit grade and above and the approval of MA INTR co-ordinator

**Co-requisites:** None

**Subject Description:** The work done for this subject is expected to include a detailed analysis of a significant issue, theoretical concept, methodological question that a student has previously encountered or a specific period or actor in international relations (and/or global governance and development). The student is expected to draw on relevant primary and secondary sources, scholarly theories and concepts and/or comparative materials. Enrolment requires the prior approval of the MA INTR co-ordinator and may depend on the availability of appropriate sources and suitably qualified staff.

### **PHIL905 Research Project**

*Not on offer in 2007*

**Credit Points:** 16

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Identification, development and execution of a directed research project under the supervision of a member of the Philosophy program on topic in Applied Ethics. Students will pursue an extended research project that applies ethical concepts and theory to significant problems in applied ethics. The subject will develop students' capacities for critical analysis, ethical evaluation and conceptual analysis in relation to a specific ethical issue. This will deepen their understanding of concepts and theories taught in the MA (Applied Ethics) subjects, through using them in directed research. This subject may be a valuable addition to a student's professional portfolio.

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Arts	<b>PHIL935 Applied Ethics</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> Bachelor degree (pass of honours) in any field, or equivalent. <b>Co-requisites:</b> None Exclusions: PHIL206 <b>Subject Description:</b> A systematic study of a range of problems of applied ethics. Among the topics for discussion will be a selection of the following: civil rights; human rights; privacy; censorship; discrimination; commodification; branding and advertising; globalisation; war; terrorism; multiculturalism; inter-personal ethics and environmental ethics.
Commerce	
Creative Arts	<b>PHIL955 Theoretical Ethics</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> Bachelor or equivalent <b>Co-requisites:</b> None Exclusions: PHIL251 or PHIL301 <b>Subject Description:</b> A critical study of fundamental issues in moral philosophy. Among the topics discussed will be a selection of the following: moral relativism; consequentialism; moral motivation; egoism and altruism; morality and rationality.
Education	
Engineering	<b>PHIL965 Bioethics</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> Bachelor degree or equivalent <b>Co-requisites:</b> None <b>Subject Description:</b> Systematic study of a range of bioethical problems. Topics will include: euthanasia; physician-assisted suicide; reproduction technology; anonymous donor programs; genetic counselling, screening and testing; surrogacy; embryo and fetal research; health resources allocation; organ transplantation; experimentation involving human subjects; research involving animals; the nature of professional ethics.
Graduate School of Business	
Health & Behavioural Sciences	<b>PHIL976 Ethical Issues in Research</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> Bachelor degree (pass or honours) in any field, or equivalent <b>Co-requisites:</b> None <b>Subject Description:</b> Examines areas of ethical concern in different kinds of research, including concepts of research misconduct (e.g. research fraud, manipulation of data, plagiarism), ethical justification of research (especially research that may involve risk or burdens for humans or nonhuman animals) and ethical review of research. Topics discussed include: consent; confidentiality; fraud; disadvantaged participants; use of research findings; institutional ethics committees; codes of research practice and responsibilities in research.
Informatics	
Law	
Science	<b>PHIL986 Applied Ethics Topic</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> Bachelor degree or equivalent. <b>Co-requisites:</b> None <b>Subject Description:</b> Offers students enrolled in the MA (Applied Ethics) the opportunity to investigate applied ethics issues at an advanced level. Students wishing

to enrol must discuss their proposal with the Convenor of Program. Normally this is a reading program. Content and assessment is determined by the supervisor and student.

### PHIL995 Environmental Ethics

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** Bachelor degree or equivalent. Not to count with PHIL256

**Co-requisites:** None

**Subject Description:** A systematic study of problems in environmental ethics. Topics include the place of humankind in nature; the status of non-human animals and their use in research and as food; our moral obligations to the 3rd world and to future generations, 'deep' versus 'shallow' theories of environmental ethics.

### SMAC910 Transforming Asia: Trends, Issues and Problems

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Over the past decade, globalization has been an important driving force for change in Asia. This subject examines and critiques the globalization of Asia, highlighting the uneven nature of the globalization process by revealing the 'winners' and 'losers' of contemporary social, economic and cultural change. Case studies examine inequalities based on gender, class and sexuality in particular countries (Taiwan, India, Japan, Indonesia, Singapore and Bangladesh), as well as in comparative Asian contexts. Topics to be covered include: regional social movements and political change; sex and gender discrimination; marginal labourers; transnational and migrant identities; media and identity; rapid urbanization, slum development and inequality.

### SOC 904 Principles of Social Impact Assessment

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to the basic principles and practices of social impact assessment (SIA). The subject includes: the history and theory of SIA; preparation and planning for SIA; scoping studies; implementing and undertaking SIAs; the role of the SIA professional; and project evaluation.

### STS 929 Studies in Resource and Environmental Policy

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** Approval of Convenor of Program or Subject Coordinator

**Co-requisites:** None

**Subject Description:** This subject examines the social, economic and political processes through which environmental policy is developed. Case studies will be used to understand environmental impacts of technological development. Theoretical perspectives may include the politics and sociology of scientific controversy, global, national and regional

developments in environmental regulation, theories of state regulation and intervention, and the choice and negotiation of different environmental strategies.

Science	Law	Informatics	Health & Behavioural Sciences	Graduate School of Business	Engineering	Education	Creative Arts	Commerce	Arts
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# Faculty of Commerce

## Member Units

School of Accounting and Finance  
School of Economics  
School of Management and Marketing

## Courses Offered

Doctor of Philosophy  
Graduate Certificate in Commerce  
Graduate Certificate in Research Commercialisation  
Master of Information Systems – Research\*  
Master of Information Systems (Advanced)\*  
Master of Information Systems\*  
Graduate Diploma in Information Systems\*  
Graduate Certificate in Information Systems\*

\* The Information System discipline operates within the Faculty of Informatics. 2007 is the final intake of these Information Systems degrees under the administration of the Faculty of Commerce

### Accountancy

Master of Accountancy – Research  
Master of Accountancy  
Master of Professional Accounting  
Master of Forensic Accounting

### Finance

Master of Finance – Research  
Master of Finance  
Master of Applied Finance (Banking/Managing/Investing)

### Economics

Master of Economics – Research

### Management

Master of Management – Research  
Master of Strategic Management and Marketing  
Master of Strategic Management  
Master of Strategic Human Resource Management  
Graduate Diploma in Management

### Marketing

Master of Marketing – Research  
Master of Strategic Management and Marketing (see Management)  
Master of Strategic Marketing  
Graduate Diploma in Marketing

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).



## Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Commerce
Duration:	3 years or part-time equivalent
Total Credit Points:	48 per annum
Delivery Mode:	Supervised individual research
Location:	All
UOW Course Code	201
CRICOS Code:	001247B

### Overview

Candidates with demonstrated research potential, exhibited usually by a Bachelor Honours, Masters by Research degree or other Masters degree that includes a research project, can apply to take a Doctor of Philosophy in the Faculty. Full-time study of three years, or the part-time equivalent, is normally required. Candidates will be expected to work under supervision on research projects related to their thesis area and may be required to complete coursework classes in order to acquire theory and develop methodological skills necessary for their doctoral research. Candidates for this degree enrol in the subject THES924 (full-time) or THES912 (part-time).

The following areas of research are some of the topics available to candidates undertaking the Doctor of Philosophy degree:

#### School of Accounting and Finance

##### Accountancy

- Accounting and Information Systems
- Accounting and EDI
- Auditing
- Controllership
- Critical Accounting Theory
- External Financial Reporting and Standard Setting
- Government and Not for Profit Accounting
- History of Accounting Thought
- International Accounting and Finance
- Management Accounting
- Small Business Management
- Social and Environmental Accounting

##### Finance

- Banking
- Behavioural Finance
- Corporate Finance
- Entrepreneurial Finance
- Financial Economics
- Financial Markets
- Financial Planning
- International Finance
- Mathematical Finance
- Personal Finance
- Portfolio Analysis
- Risk Management
- Small Business Finance

#### School of Economics

##### Economics

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<p>Labour and Human Resources</p> <p>International Trade and Investment</p> <p>Economic Growth and Development</p> <p>Small and Medium Enterprises</p> <p>Industrial and Business Economics</p> <p>Regional Development</p> <p>Macroeconomic Performance and Policies</p>
Commerce	<p><b>School of Management and Marketing</b></p> <p>Management</p> <p>Project Based Learning</p> <p>Organisational Change and Leadership</p> <p>Firm Performance</p> <p>Internationalisation of Firms</p> <p>OH&amp;S Management</p> <p>Entrepreneurial Identity</p> <p>International and Comparative Human Resource Management</p> <p>Role of Human Resource Management in Organizational Change</p> <p>Inter-organisational Relations</p> <p>Strategic Management in SE Asian Firms</p> <p>Corporate Governance</p> <p>Critical Analysis of HRM Practices</p> <p>Cross-cultural Management</p> <p>International Organizations</p> <p>Corporate Decision-Making</p> <p>Business Ethics</p> <p>Logistics</p> <p>Supply Chain Management</p> <p>Marketing</p> <p>Advertising</p> <p>Consumer Behaviour</p> <p>Internet Marketing</p> <p>International Marketing</p> <p>Marketing Communication</p> <p>Marketing Research</p> <p>New Product Marketing and Product Innovation</p> <p>Relationship Marketing</p> <p>Strategic Planning and Marketing</p> <p>Sales Management</p> <p>Services Marketing</p> <p><b>Other Research Areas</b></p> <p>Information Systems*</p> <p>Information Systems</p> <p>Online banking</p> <p>Knowledge Management</p> <p>Information Systems and the sustainable competitive advantage</p> <p>Visualisation of Location Based Services</p> <p>Intelligent Knowledge Acquisition</p> <p>Assessing the Effectiveness of Corporate Web Sites</p> <p>Critical Success Factors of Executive Information Systems</p> <p>Activity Theory</p>
Creative Arts	
Education	
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

Management of IT Architectures and Infrastructures

\*The Information Systems discipline operates within the Faculty of Informatics. 2007 is the final intake of Information Systems degrees under the administration of the Faculty of Commerce.

## Other Information

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

## Graduate Certificate in Commerce

Testamur Title of Degree:	Graduate Certificate in Commerce
Abbreviation:	GradCertCom
Home Faculty:	Commerce
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	24
Location:	Wollongong
Delivery Mode:	Face to Face
Starting Session(s):	Autumn, Spring
UOW Course Code:	1154, S1154
CRICOS Code:	055108M

## Overview

The Graduate Certificate in Commerce is an entry level postgraduate certificate. The Grad Cert is a pathway program for those students who do not have either:

- the English language level requirement for a coursework Master degree, Or
- do not have a degree in the relevant discipline required for entry into various Masters programs within the Faculty of Commerce.

This Certificate provides students with the base of knowledge and skills required then to complete the subsequent Master degree.

## Entry Requirements

Applicants should have a Bachelor degree or equivalent from a recognised tertiary institution. Those applicants with a combination of academic qualifications and/or substantial relevant professional work experience may also be considered.

Applicants must also meet the University's English Language requirements for this certificate (refer to the University's website at [www.uow.edu.au/discover/international/](http://www.uow.edu.au/discover/international/) for details).

## Course Requirements

Candidates are required to complete 24 credit points of 200-, 300- or 900- level subjects as approved by the relevant Master's Course Co-ordinator. The subject selection will depend on the Master degree the student plans to undertake.

Students who do not meet the English language entry level for a particular Master degree program, will be required to complete TBS985 Communication for International Business, along with 18 credit points of 200-, 300- or 900- level subjects that are relevant to the Masters degree in which the student intends to enrol.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Graduate Certificate in Research Commercialisation

Testamur Title of Degree:	Graduate Certificate in Research Commercialisation
Abbreviation:	GradCertResCom
Home Faculty:	Commerce
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	24
Location:	Wollongong
Delivery Mode:	Face to Face
Starting Session(s):	Autumn, Spring
UOW Course Code:	1161
CRICOS Code:	NA

## Overview

The Graduate Certificate in Research Commercialisation provides Higher Degree Research (HDR) students with high quality research commercialisation training. Each year a limited number of 6 month scholarships are available to enrolled domestic PhD students.

Contact the Research Student Centre [www.uow.edu.au/research](http://www.uow.edu.au/research)

Email [research\\_student\\_centre@uow.edu.au](mailto:research_student_centre@uow.edu.au)

Telephone 02 42215452

PLEASE NOTE: This course is only available to students who are in receipt of the Scholarship.

## Entry Requirements

Applicants must be currently enrolled in a Research Doctorate

## Course Program

Code	Subject	Session	Credit Points
FIN921	Managerial Finance	Autumn/Spring	6
LAW331	Intellectual Property Law	Autumn	6
Plus one of the following:			
MARK922	Marketing Management	Autumn	6
MARK935	Marketing Strategy	Spring	6
MARK956	Creating and Marketing New Products	n/o 2007	6
Plus one of the following:			
MGMT908	Human Resource Development	Autumn	6
MGMT911	Organisational Behaviour	Spring	6
MGMT915	Organisational Change	Spring	6
MGMT940	Innovation and Entrepreneurship	Spring	6
COMM327	Business Innovation, Technology and Policy	Autumn	6

# Information Systems\*

\*The Information System discipline operates within the Faculty of Informatics. 2007 is the final intake of these Information Systems degrees under the administration of the Faculty of Commerce

## Master of Information Systems - Research

Testamur Title of Degree:	Master of Information Systems -Research
Abbreviation:	MIS-Res
Home Faculty:	Commerce
Duration:	1.5 years
Total Credit Points:	72
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1334
CRICOS Code:	042551K

### Overview

The Master of Information Systems (Research) is a 72 credit point degree consisting of 24 credit points of coursework subjects and a 48 credit point thesis. The program may be studied full-time over 1.5 years or part-time over three years.

### Entry Requirements / Assumed Knowledge

This degree is primarily a research degree for those who have completed an undergraduate degree in Information Systems, or equivalent, with Distinction, e.g. a BCom(Honours) in Business Information Systems at a standard of Class II Division 2 or higher.

### Advanced Standing

Advanced standing of up to 24 credit points may be awarded for the coursework component of this degree to students who have completed subjects relating to any specific research areas at an appropriate standard as assessed by the Course Coordinator.

### Course Program

Subjects	Session	Credit Points
BUSS929 Information Systems Research Methods	Autumn/Spring	6
Plus 18 credit points of 900-level subjects offered in Information Systems to be approved by the Course Coordinator		
THES924 Thesis Full-time	Annual	48
THES912 Thesis Part-time		24

## Master of Information Systems (Advanced)

Testamur Title of Degree:	Master of Information Systems (Advanced)
Abbreviation:	MInfoSys(Adv)
Home Faculty:	Commerce
Duration:	2 years
Total Credit Points:	72
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1544
CRICOS Code:	049638B

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Overview

The Master of Information Systems (Advanced) degree specialising in Information Systems provides graduates with the opportunity to study advanced topics in information systems and to undertake a research project in one of the areas of research interest in the IS Discipline. The program aims to both deepen and broaden the knowledge and skills of students in systems development methodologies, systems management, electronic commerce and a selected area of IS research.

## Entry Requirements / Assumed Knowledge

Applicants must have a Bachelor of Commerce degree from a recognised tertiary institution with a major in Information Systems or equivalent. Computer Science graduates and students with a major in Information Systems or Business Computing in another degree are also eligible to apply.

## Advanced Standing

Candidates who have successfully completed the Master of Information Systems (MIS) may apply to enrol in the MBA program. MIS candidates who progress to the MBA, will be required to successfully complete a further seven subjects.

## Course Program

Subject	Session	Credit Points
BUSS945 Information Systems Project	Autumn/Spring/ Annual	12
BUSS950 Systems Development Methodologies	Autumn	6
BUSS951 Critical Issues in Information Systems	Spring	6
BUSS952 Strategic Information Systems Management	Autumn	6
BUSS953 Management of Information Systems Development	Spring	6
<b>Plus 36 credit points from the following subjects</b>		
BUSS906 Strategic Information in Organisations	Autumn/Spring	6
BUSS907 Fundamentals of e-Business	Autumn/Spring	6
BUSS909 Information Automation & Organisational Workflow	Autumn	6
BUSS910 Qualitative Analysis of Systems	Spring	6
BUSS911 Intelligent Systems	Autumn	6
BUSS924 Systems Modelling and Simulation	Spring	6
BUSS926 Decision Support Systems	Spring	6
BUSS927 Human Computer Interaction	Autumn	6
BUSS929 Information Systems Research Methods	Autumn/Spring	6

## Master of Information Systems

Testamur Title of Degree:	Master of Information Systems
Abbreviation:	MInfoSys
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring/Summer
Location:	Wollongong
UOW Course Code:	1534
CRICOS Code:	031281G

## Overview

The MIS degree specialising in Information Systems provides graduates with the opportunity to study advanced topics in information systems and to undertake a research project in one of the areas of research interest in the IS Discipline. The program aims to both deepen and broaden the knowledge and skills of students in systems development methodologies, systems management, electronic commerce and a selected area of IS research.

## Entry Requirements / Assumed Knowledge

Applicants must have a Bachelor of Commerce degree from a recognised tertiary institution with a major in Information Systems or equivalent. Computer Science graduates and students with a major in Information Systems or Business Computing in another degree, or students who have completed the Graduate Diploma in Information Systems are also eligible to apply.

## Course Program

Subject		Session	Credit Points
BUSS945	Information Systems Project	Autumn/Spring/ Annual	12
BUSS950	Systems Development Methodologies	Autumn	6
BUSS951	Critical Issues in Information Systems	Spring	6
BUSS952	Strategic Information Systems Management	Autumn	6
BUSS953	Management of Information Systems Development	Spring	6
<b>Plus 12 credit points of elective 900-level BUSS subjects selected from the following</b>			
BUSS906	Strategic Information in Organisations	Autumn/Spring	6
BUSS907	Fundamentals of E-Business	Autumn/Spring	6
BUSS909	Office Automation and Intranets*	n/o 2006	6
BUSS910	Qualitative Analysis of Systems	Spring	6
BUSS911	Intelligent Systems	Autumn	6
BUSS924	Systems Modelling and Simulation	Spring	6
BUSS926	Decision Support Systems	Spring	6
BUSS927	Human Computer Interaction	Autumn	6
BUSS929	Information Systems Research Methods	Autumn/Spring	6

## Graduate Diploma in Information Systems

Testamur Title of Degree:	Graduate Diploma in Information Systems
Abbreviation:	GDipInfoSys
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring/Summer
Location:	Wollongong
UOW Course Code:	648B
CRICOS Code:	031280G

## Overview

This course aims to provide graduates with a coherent program of studies which will enable them to function as information systems professionals within a business organisation. The curriculum provides a balanced approach to the technical knowledge and skills, as well as an emphasis on human aspects of the information systems field. Students who do not have a strong background in either programming or databases may need to vary the schedule in consultation with the Course Coordinator.

## Entry Requirements / Assumed Knowledge

Applicants must have a Bachelor degree from a recognised tertiary institution with a major in an area other than Information Systems, IT or Computing. Applicants with an appropriate combination of academic or professional qualifications and relevant work experience of at least three years may also be considered.

## Course Program

Subject	Session	Credit Points
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Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	BUSS211	Requirements Determination and Systems Analysis	Autumn	6	
	BUSS212	Database Management Systems	Spring	6	
	BUSS218	Systems Design and Architecture	Spring	6	
	BUSS312	Distributed Information Systems	Autumn	6	
	BUSS315	Knowledge-Based Information Systems	Autumn	6	
	BUSS318	Information Systems Project	Spring	6	
Commerce	And one of the following:				
	BUSS201	User-Centred Business Programming	Autumn	6	
	BUSS214	Business Programming II	Autumn	6	
	BUSS316	Information Systems Prototyping	Autumn	6	
Creative Arts	And one of the following:				
	BUSS308	Computer Systems Management	Spring	6	
	BUSS313	Information Retrieval Systems	Spring	6	
	BUSS317	Business Programming IV	Spring	6	
Education	Graduate Certificate in Information Systems				
Engineering	Testamur Title of Degree:	Graduate Certificate in Information Systems			
	Abbreviation:	GCertInfoSys			
	Home Faculty:	Commerce			
	Duration:	1 year part-time			
	Total Credit Points:	24			
	Delivery Mode:	On campus			
Graduate School of Business	Starting Session(s):	Autumn/Spring			
	Location:	Wollongong			
	UOW Course Code:	697B			
	CRICOS Code:	050003E			
	Health & Behavioural Sciences	Overview			
	Informatics	This course is designed for graduates seeking an introductory course in the field of Information Systems. The course is specifically designed for, and restricted to, those students who hold University qualifications in areas not related to the field of Information Systems. Students performing at a satisfactory level in the Graduate Certificate may be permitted to continue with the Graduate Diploma in Information Systems with up to 24 credit points of specified credit. These students will not be entitled to receive the Graduate Certificate in Information Systems.			
Entry Requirements / Assumed Knowledge					
Law	Applicants should normally have a Bachelor degree from a recognised tertiary institution with a major in an area other than Information Systems, IT or Computing. Applicants with an appropriate combination of academic qualifications and relevant work experience of at least two years may also be considered.				
	Course Requirements				
Science	Students will take:				
	One BUSS 300-level subject	6 cp			
	Three BUSS subjects at 200- or 300- level	18 cp			
	Credit Towards Other Courses				
	Students performing at a satisfactory level in the Graduate Certificate may be permitted to continue with the Graduate Diploma in Information Systems with up to 24 credit points of specified credit. These students will not be entitled to receive the Graduate Certificate in Information Systems				



# School of Accounting and Finance

## Master of Accountancy - Research

Testamur Title of Degree:	Master of Accountancy – Research
Abbreviation:	MAccy-Res
Home Faculty:	Commerce
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1330
CRICOS Code:	042547F

### Overview

The Master of Accountancy – Research degree comprises 24 credit points of coursework and a 48 credit point thesis. This degree is primarily a research degree for those who have completed a Bachelors Honours at a standard of Class II, Division 2 or higher in accountancy, economics, finance or management.

### Entry Requirements / Assumed Knowledge

Applicants who have completed a coursework Masters degree at an appropriate standard may be admitted to the program.

### Advanced Standing

Advanced Standing of up to 24 credit points may be awarded for the coursework component of this degree to students who have completed research related subjects at an appropriate standard as assessed by the Head of Accounting Discipline. A candidate may not undertake subjects for this degree that are similar in content to subjects included in their Honours or Masters course.

### Course Program

Subjects		Session	Credit Points
ACCY903	Theoretical Foundations of Accounting	Autumn/Spring	6
ACCY907	Empirical Research Methods	Autumn	6

### Elective Subjects

12 credit points from the 900– level subjects offered by the School of Accounting and Finance, provided those electives are appropriate to the course of research the student intends to pursue.

Subject selection to be approved by the Head of Accounting Discipline.

Other coursework subjects may be substituted with the permission of the Head of Accounting Discipline.

### Thesis

Subjects		Session	Credit Points
THES 924	Thesis full-time	Annual	48
THES 912	Thesis part-time		24

### Other Information

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

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Master of Accountancy

Testamur Title of Degree:	Master of Accountancy
Abbreviation:	MAccy
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1530
CRICOS Code:	042526M

## Overview

The Master of Accountancy builds on the accounting knowledge and skills acquired at the undergraduate level. It develops in-depth understanding and capacities to critique the research and practice of accounting.

## Entry Requirements / Assumed Knowledge

Applicants must have a Bachelor of Accountancy or Commerce degree with a major in Accountancy from a recognised tertiary institution, with an average mark of at least 60%.

## Course Program

Students will undertake 48 credit points consisting of any eight subjects from the following list:

Subjects	Session	Credit Points
ACCY903 Theoretical Foundations of Accounting	Autumn/Spring	6
ACCY904 Financial Accounting	Autumn	6
ACCY905 International Accounting	Spring	6
ACCY907 Empirical Research Methods	Autumn	6
ACCY913 Management Accounting	Autumn	6
ACCY914 Management Planning and Control Systems	Autumn	6
ACCY936 Management and Information Systems	Autumn/Spring	6
ACCY968 Insolvencies	Spring	6
ACCY974 Accounting Regulation	Spring	6

With permission of the Head of Accounting Discipline, it is possible for students to substitute subjects listed above with ACCY985 Special Topic in Accounting A or ACCY986 Special Topic in Accounting B.

## Professional Recognition

Recognised by CPA Australia as a Specialist Masters Degree.

## Other Information

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

# Master of Professional Accounting

Testamur Title of Degree:	Master of Professional Accounting
Abbreviation:	MPAccy
Home Faculty:	Commerce
Duration:	1.5 to 2 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1515
CRICOS Code:	036454F

## Overview

The program is designed to build on the learning experience of the students and to extend that experience to an appreciation and understanding of matters relating to the practice of accounting. Students will have an appreciation of the theoretical issues under-pinning the practice of accounting, as well as the legal and practical issues surrounding that practice.

## Entry Requirements / Assumed Knowledge

Applicants must have a Bachelor degree from a recognised tertiary institution or equivalent.

## Course Requirements

The course is designed to be taken over three or four semesters on a full-time basis or a part-time equivalent basis. The program consists of twelve subjects totalling 72 credit points.

## Course Program

Subjects	Session	Credit Points
ACCY901 Accounting Foundations for Professionals	Autumn/Spring	6
ACCY903 Theoretical Foundations of Accounting	Autumn/Spring	6
ACCY902 Applied Financial Accounting	Spring	6
ACCY918 Applied Management Accounting	Spring	6
FIN921 Managerial Finance	Autumn/Spring	6
ACCY936 Management and Information Systems	Autumn/Spring	6
ACCY962 Professional Practice – Auditing & Risk Assurance	Autumn	6
ACCY963 Professional Practice – Taxation	Autumn	6
ECON910 Economics for Accounting Professionals	Autumn/Spring	6
ECON940 Statistics for Decision Making	Spring	6
LAW960 Legal Studies for Professionals	Spring	6
LAW9302 Law of Business Organisations	Autumn	6

## Professional Recognition

Recognised by CPA Australia, the Institute of Chartered Accountant Australia (ICAA) and the Association of Chartered Certified Accountants (ACCA).

Students please note:

The MPA is accredited by CPA Australia and the Institute of Chartered Accountants Australia (ICAA). You are advised that if you intend to apply for membership with either institution, you must also meet any additional membership requirements the institutions may have, which includes recognition of your previous qualifications.

## Other Information

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

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Master of Forensic Accounting

Testamur Title of Degree:	Master of Forensic Accounting
Abbreviation:	MForAccy
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Modular – compulsory 3 full days intensive program per subject (Fri, Sat and Sun)
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1541
CRICOS Code:	N/A

## Overview

The Master of Forensic Accounting emphasises a forensic rather than a control-based or risk management approach to the analysis of corporate governance and the possibility of fraud.

Students will be given a broad-based introduction to the nature and purpose of forensic accounting. The scope and content of all subjects extend well beyond a 'legal' focus and provide an opportunity to study and acquire skills in investigative techniques and the collection of data as well as the skills necessary to not only identify poor management but also unethical and fraudulent activities.

## Entry Requirements / Assumed Knowledge

Applicants must have an undergraduate degree with a major in accountancy from a recognised university. Other academic or professional qualifications plus a minimum of five years full-time work experience may be approved by the Program Coordinator, Forensic Accounting Studies.

## Advanced Standing

Advanced standing for ACCY950 and ACCY958 will be offered to applicants who have completed the CPA Australia or ICAA Program.

## Course Program

Subjects	Session	Credit Points
ACCY950** Introductory Forensic Accounting	Autumn/Spring	6
ACCY951** Forensic and Litigation Framework	Autumn/Spring	6
ACCY952** Fraud and Failure	Autumn/Spring	6
ACCY953** Investigative Processes	Autumn/Spring	6
ACCY954 Advanced Investigative Techniques	Autumn/Spring	6
ACCY957 Independent Accounting Expert Reports	Autumn/Spring	6
ACCY958 Research Project A	Autumn/Spring	6
ACCY959 Research Project B	Autumn/Spring	6

\*\* Exit option of Graduate Certificate of Forensic Accounting after the completion of these subjects.

## Professional Recognition

Recognised by CPA Australia and the Institute of Chartered Accountants Australia (ICAA).

## Other information

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

# Finance

## Master of Finance - Research

Testamur Title of Degree:	Master of Finance -Research
Abbreviation:	MFin-Res
Home Faculty:	Commerce
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1332
CRICOS Code:	042549D

### Overview

This program comprises a coursework and research component. In the coursework component, students develop their capacity to conduct rigorous independent research, as well as undertaking advanced coursework that integrates conceptual and practical issues within the finance discipline. In the research component, students complete substantial and extended research into an applied or theoretical issue in finance. The topic is selected in line with the student's research interests and is subject to approval by the Head of Discipline. The thesis is completed under the supervision of an individual member of staff and culminates in the production of a substantial written thesis.

### Entry Requirements / Assumed Knowledge

Bachelor's honours at a standard of Class II, Division 2 or higher in accountancy, economics, finance or management. Candidates who have completed a coursework master's degree at an appropriate standard may also be admitted.

### Advanced Standing

Advanced Standing of up to 24 credit points may be awarded for the coursework component of this degree to students who have completed research-related subjects at an appropriate standard as assessed by the Head of Finance Discipline.

### Course Program

Core Subjects		Session	Credit Points
ACCY903	Theoretical Foundations of Accounting	Autumn/Spring	6
ACCY907	Empirical Research Methods	Autumn	6

### Electives

Any 2 900-level subjects offered by the School of Accounting and Finance as approved by the Head of Finance Discipline. Thesis

Subjects		Session	Credit Points
THES924	Thesis (full-time)	Annual	48
THES912	Thesis (part-time)		

### Other Information

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

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# Master of Finance

Testamur Title of Degree:	Master of Finance
Abbreviation:	MFin
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1532
CRICOS Code:	042529G

## Overview

This program is aimed at university graduates with no previous qualifications in finance who wish to change career direction, or non-finance business majors who wish to acquire an advanced understanding of finance to complement their existing knowledge gained through prior studies, work experience and training. The degree structure is flexible, permits focus on areas of vocational interest and best suits applicants who are seeking a degree based on specialised coursework. The compulsory core part of the program is aimed at introducing students to the study of finance at the graduate level through interdisciplinary studies in finance and accounting. This is an ideal introduction to the business world for majors from the humanities, education, engineering, health, law and the sciences. In the elective part of the program, students develop an advanced conceptual and applied knowledge of decision-making in corporate finance and banking, investment analysis and portfolio management, international finance, risk management, entrepreneurial finance and statistical and economic methods in finance.

## Entry Requirements / Assumed Knowledge

Applicants must have a Bachelor degree from a recognised tertiary institution.

## Course Requirements

Students are required to undertake 12 credit points in core subjects and 36 credit points in elective subjects.

## Course Program

### Core Subjects:

ACCY901	Accounting Foundations for Professionals	Autumn/Spring	6
FIN921	Managerial Finance	Autumn/Spring	6

### Electives

LAW970	Banking and Financial Institutions Law	Autumn	6
FIN925	Banking Theory and Practice	Autumn	6
FIN922	Advanced Investment Analysis	Autumn	6
FIN924	Advanced Financial Statement Analysis	Autumn	6
FIN927	Entrepreneurial Finance	Autumn	6
STAT920	Stochastic Methods in Finance	Autumn	6
ECON910	Economics for Accounting Professionals	Autumn/Spring	6
FIN955	International Banking	Spring	6
FIN956	Bank Lending & Securities	Spring	6
FIN923	Advanced Portfolio Management	Spring	6
FIN926	Advanced Corporate Finance	Spring	6
FIN928	Multinational Financial Management	Spring	6
FIN957	Portfolio Simulation	Spring	6
ECON940	Statistics for Decision Making	Spring	6

Note: ACCY901 and FIN921 are compulsory subjects and are ordinarily taken in the first session of commencement in the degree. Students successfully completing 24 credit points in the MFin are eligible to apply for admission to the MAppFin. With permission of Head of Finance Discipline, students may include FIN987 Special Topic in Finance among the elective subjects.

## Professional Recognition

Recognised by the Financial Services Institute of Australasia (FINSIA).

## Other Information

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

## Master of Applied Finance (Banking/Investing/Managing)

Testamur Title of Degree:	Master of Applied Finance (Banking/Investing/Managing)
Abbreviation:	MAppFin
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1537
CRICOS Code:	029141D

## Overview

This program is designed for business graduates who wish to substantially develop their advanced, applied and comprehensive knowledge of either banking, investing or managing at the graduate level. The core part of the program provides students with an advanced understanding of financial decision-making in one of three areas. The banking specialisation has a focus on bank management and lending, the investing specialisation addresses investment analysis and portfolio management, and the managing specialisation is concerned with the financial decisions made by corporate managers. In the elective part of the program students can enhance their understanding of finance through the study of corporate finance, banking and lending, investment analysis and portfolio management, international finance, risk management, entrepreneurial finance and statistical methods in finance.

## Entry Requirements / Assumed Knowledge

Applicants must have a Bachelor degree in commerce, business or equivalent from a recognised tertiary institution. Students with a combination of other university qualifications plus relevant vocational experience may also be considered.

## Course Requirements

Students are required to undertake the 24 credit points in the Banking, Investing or Managing specialist stream and 24 credit points in electives.

## Course Program

### Master of Applied Finance (Banking)

Code	Subject	Session	Credit Points
LAW970	Banking and Financial Institutions Law	Autumn	6
FIN925	Banking Theory and Practice	Autumn	6
FIN955	International Banking	Spring	6
FIN956	Bank Lending and Securities	Spring	6
<b>Electives</b>			
FIN922	Advanced Investment Analysis	Autumn	6
FIN924	Advanced Financial Statement Analysis	Autumn	6
FIN927	Entrepreneurial Finance	Autumn	6
STAT920	Stochastic Methods in Finance	Autumn	6
FIN923	Advanced Portfolio Management	Spring	6
FIN926	Advanced Corporate Finance	Spring	6

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Arts	FIN928	Multinational Financial Management	Spring	6
	FIN957	Portfolio Simulation	Spring	6
	ECON940	Statistics for Decision Making	Spring	6
	Note: With permission of Head of Finance Discipline, students may include FIN987 Special Topic in Finance among the elective subjects.			
Commerce	<b>Master of Applied Finance (Investing)</b>			
	<b>Code</b>	<b>Subject</b>	<b>Session</b>	<b>Credit Points</b>
	FIN922	Advanced Investment Analysis	Autumn	6
	FIN924	Advanced Financial Statement Analysis	Autumn	6
	FIN923	Advanced Portfolio Management	Spring	6
	FIN957	Portfolio Simulation	Spring	6
Creative Arts	<b>Electives</b>			
	LAW970	Banking and Financial Institutions Law	Autumn	6
	FIN925	Banking Theory and Practice	Autumn	6
	FIN927	Entrepreneurial Finance	Autumn	6
Education	STAT920	Stochastic Methods in Finance	Autumn	6
	FIN955	International Banking	Spring	6
	FIN956	Bank Lending & Securities	Spring	6
	FIN926	Advanced Corporate Finance	Spring	6
Engineering	FIN928	Multinational Financial Management	Spring	6
	ECON940	Statistics for Decision Making	Spring	6
	Note: With permission of Head of Finance Discipline, students may include FIN987 Special Topic in Finance among the elective subjects.			
	<b>Master of Applied Finance (Managing)</b>			
Graduate School of Business	<b>Code</b>	<b>Subject</b>	<b>Session</b>	<b>Credit Points</b>
	FIN924	Advanced Financial Statement Analysis	Autumn	6
	FIN927	Entrepreneurial Finance	Autumn	6
	FIN926	Advanced Corporate Finance	Spring	6
Health & Behavioural Sciences	FIN928	Multinational Financial Management	Spring	6
	<b>Electives</b>			
	LAW970	Banking and Financial Institutions Law	Autumn	6
	FIN925	Banking Theory and Practice	Autumn	6
	FIN922	Advanced Investment Analysis	Autumn	6
	STAT920	Stochastic Methods in Finance	Autumn	6
Informatics	FIN955	International Banking	Spring	6
	FIN956	Bank Lending & Securities	Spring	6
	FIN923	Advanced Portfolio Management	Spring	6
	FIN957	Portfolio Simulation	Spring	6
	ECON940	Statistics for Decision Making	Spring	6
Law	Note: With permission of Head of Finance Discipline, students may include FIN987 Special Topic in Finance among the elective subjects.			
	<b>Professional Recognition</b>			
	Recognised by the Financial Services Institute of Australasia (FINSIA) and is recognised by CPA Australia as a Specialist Masters Degree.			
Science	<b>Other Information</b>			
	Further information is available from <a href="http://www.uow.edu.au">www.uow.edu.au</a> or email: <a href="mailto:accfin@uow.edu.au">accfin@uow.edu.au</a>			



# School of Economics

## Master of Economics - Research

Testamur Title of Degree:	Master of Economics - Research
Abbreviation:	MEcon - Res
Home Faculty:	Commerce
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1331
CRICOS Code:	042548E

### Overview

This course aims to provide graduate students, who have completed an Economics major in an undergraduate degree, with the opportunity for advanced study in Economics including a major research thesis.

### Entry Requirements / Assumed Knowledge

Entry level will normally be by an Honours Bachelor of Commerce or Arts degree or equivalent at a standard of Class II, Division 2 or higher in Economics. Students who hold a Pass Masters degree in Economics or equivalent will be admitted, although additional coursework may be required at the direction of the Head of Discipline.

### Advanced Standing

Students who hold an Honours Class II, Division 1 or higher in Economics may be awarded up to 24 credit points advanced standing for the coursework component of the program.

### Course Requirements

Students normally undertake a 72 credit point program consisting of 24 credit points of coursework plus 48 credit points of research thesis.

### Course Program

Subjects		Session	Credit Points
ECON996	Advanced Macroeconomic Theory	Autumn	6
ECON997	Advanced Microeconomic Theory	Autumn	6
<b>Plus one of the following:</b>			
ECON921	Econometric Models	n/o 2007	6
Or			
ECON939	Quantitative Economic Analysis	Autumn	6
<b>Plus six credit points at 900- level as approved by the Head of Discipline.</b>			
<b>Plus</b>			
THES924	Thesis (full-time) OR	Annual	48
THES912	Thesis (part-time)		

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# School of Management and Marketing

## Master of Management - Research

Testamur Title of Degree:	Master of Management -Research
Abbreviation:	MMgmt-Res
Home Faculty:	Commerce
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1335
CRICOS Code:	042545G

### Overview

The Master of Management (Research) provides graduates with the opportunity for further study of advanced topics in management.

### Entry Requirements / Assumed Knowledge

Applicants must have completed the requirements for the award of Bachelor of Commerce (Honours) or equivalent at a standard of Class II, Division 2 or higher, or an equivalent degree. Candidates who have completed a Masters degree may be admitted to the program. Candidates may be awarded advanced standing of up to 24 credit points for the coursework component of this degree on the basis of previous research-related subjects. Candidates who hold a Bachelor of Commerce degree at credit level or above may be admitted to the program after an appropriate program of preliminary study prescribed by the Head of School.

### Course Program

Subjects	Session	Credit Points
COMM980      Business Research Methods	Autumn	6
<b>Or      another 6-credit point research-oriented subject approved by the Course Coordinator</b>		
<b>Plus      three 6-credit point subjects as approved by the Course Coordinator</b>		
<b>Plus</b>		
THES924      Thesis full-time	Autumn/Spring	48
THES912      Thesis part-time		

# Master of Strategic Management and Marketing

Testamur Title of Degree:	Master of Strategic Management and Marketing
Abbreviation:	MSMM
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong and other locations (subject to demand)
UOW Course Code:	1558
CRICOS Code:	053935C

## Overview

This is a cross-discipline degree designed to give students the professional knowledge in both areas.

## Entry Requirements / Assumed Knowledge

Applicants will be eligible for entry to this degree if they have completed a Commerce or Business undergraduate degree, or equivalent, with an average mark of 60% or above, from a recognised tertiary institution. Applicants with an average between 50-59% may be considered with two years relevant work experience.

The English language entry criteria will be as indicated on the UOW website.

## Course Requirements

Students will undertake eight (8) subjects (48 credit points) and are required to formalise an intended program with the Postgraduate Coordinator.

## Course Program

There are six (6) core subjects as follows:

Subjects	Session	Credit Points
MARK922 Marketing Management	Autumn	6
MARK935 Marketing Strategy	Spring	6
MARK936 Consumer Behaviour	Autumn	6
MGMT910 Strategic Management	Spring	6
MGMT920 Organisational Analysis	Autumn	6
MGMT930 Strategic Human Resource Management	Autumn	6

Two (2) subjects can be selected from:

Subjects	Session	Credit Points
MARK901 Marketing on the Internet	Spring	6
MARK917 Business to Business Marketing	Autumn	6
MARK920 Social Marketing	Spring	6
MARK938 Managing Services and Relationship Marketing	Spring	6
MARK940 Marketing Communications	Autumn	6
MARK956 Creating and Marketing New Products	n/o 2007	6
MARK957 International Marketing Strategy	Autumn	6
MARK970 Contemporary Issues in Marketing	n/o 2007	6
MARK977 Research for Marketing Decisions	n/o 2007	6
MARK995 Tourism Marketing	Spring	6
MGMT908 Human Resources Development	Autumn	6
MGMT915 Management of Change	Spring	6
MGMT911 Organisational Behaviour	Spring	6

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Arts	MGMT940	Innovation and Entrepreneurship	Spring	6
	MGMT941	Small Business Management 1	Autumn	6
	MGMT946	Personal Learning: The Reflective Manager	n/o 2007	6
	MGMT949	Performance Management	n/o 2007	6
	MGMT963	Management of Occupational Health & Safety	Spring	6
Commerce	MGMT969	Job Analysis, Recruitment & Selection	Autumn	6
	MGMT975	Negotiation, Advocacy and Bargaining	n/o 2007	
	MGMT978	Cross Cultural Management	Autumn	6
	MGMT983	Leading Organisations: Politics, Power & Change	n/o 2007	6

## Master of Strategic Management

Testamur Title of Degree:	Master of Strategic Management
Abbreviation:	MSMgmt
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong and other locations (subject to demand)
UOW Course Code:	1557
CRICOS Code:	053936B

### Overview

The Master of Strategic Management provides an opportunity for career advancement for managers. This rigorous and intellectually challenging program will assist in the development of key personal and technical skills.

### Entry Requirements / Assumed Knowledge

Applicants will be eligible for entry to this degree if they have completed a Commerce or Business undergraduate degree, or equivalent from a recognised tertiary institution, with a grade average of 60%. Applicants with an average between 50-59% may be considered with two years relevant supervisory or managerial work experience.

The English language entry criteria will be as indicated on the UOW website.

### Course Requirements

Students will undertake eight (8) subjects (48 credit points) and are required to formalise an intended program with the Postgraduate Coordinator.

### Course Program

There are three (3) core subjects as follows:

Subjects	Session	Credit Points
MARK922 Marketing Management	Autumn	6
MGMT910 Strategic Management	Spring	6
MGMT930 Strategic Human Resource Management	Autumn	6

Five (5) subjects can be selected from:

Subjects	Session	Credit Points
MGMT915 Management of Change	Spring	6
MGMT920 Organisational Analysis	Autumn	6
MGMT940 Innovation and Entrepreneurship	Spring	6
MGMT941 Small Business Management 1	Autumn	6
MGMT949 Performance Management	n/o in 2007	6
MGMT978 Cross Cultural Management	Autumn	6

MGMT983	Leading Organisations: Politics, Power & Change	n/o in 2007	6
MGMT987	Management Special Topic	Autumn/Spring	12

## Master of Strategic Human Resource Management

Testamur Title of Degree:	Master of Strategic Human Resource Management
Abbreviation:	MSHRM
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1517
CRICOS Code:	037087E

### Overview

Human resource managers are now focused on the achievement of effective learning organisations in a world of rapid local and global change. The emphasis on these aspects, with more traditional areas of concern, will equip the successful graduate with advanced human resource management skills for organisations in the 21st Century.

This program presents powerful tools for analysing strategic alignment, managing employment relationships and identifying leadership and team dynamics skills essential to orchestrate organisational change. It provides critical perspectives on the roles and functions of HR executives as change agents.

### Entry Requirements / Assumed Knowledge

Applicants will be eligible for entry to this degree if they have completed a Commerce or Business undergraduate degree, or equivalent, with a grade average of 60% or above, from a recognized tertiary institution. Applicants with a grade average of 50-59% will be considered if they have completed two years relevant work experience in a supervisory or managerial role in a human resource context.

The English language entry criteria will be as indicated on the UOW website.

### Professional Recognition

The HRM major is accredited by the Australian Human Resources Institute. Students are eligible for membership of the Institute.

### Course Requirements

Students will undertake eight (8) subjects (48 credit points) and are required to formalise an intended program with the Postgraduate Coordinator.

### Course Program

There are three (3) core subjects as follows:

Subjects	Session	Credit Points
MARK922 Marketing Management	Autumn	6
MGMT910 Strategic Management	Spring	6
MGMT930 Strategic Human Resource Management	Autumn	6

Five (5) subjects to be selected from:

Subjects	Session	Credit Points
MGMT908 Human Resource Development	Autumn	6
MGMT911 Organisational Behaviour	Spring	6
MGMT915 Management of Change	Spring	6
MGMT920 Organisational Analysis	Autumn	6

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Arts	MGMT946	Personal Learning: the Reflective Manager	n/o 2007	6
	MGMT949	Performance Management	n/o 2007	6
	MGMT963	Management of Occupational Health & Safety	Spring	6
	MGMT969	Job Analysis, Recruitment and Selection	Autumn	6
	MGMT975	Negotiation, Advocacy and Bargaining	n/o 2007	6
Commerce	MGMT987	Management Special Topic	Autumn/Spring	12

## Graduate Diploma in Management

Testamur Title of Degree:	Graduate Diploma in Management
Abbreviation:	GradDipMgmt
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong and other locations (subject to demand)
UOW Course Code:	630
CRICOS Code:	052462F

### Overview

Provides a gateway to the Masters Program and provides a higher degree qualification and career advancement for managers.

### Entry Requirements / Assumed Knowledge

Applicants will be eligible for entry to this Diploma on the basis of a Bachelors degree (or equivalent), received from a recognised tertiary institution. Applicants without a degree will be considered with other professional or academic qualifications (minimum duration two years) from a recognised tertiary institution plus relevant supervisory or managerial work experience of at least 3 years full-time equivalent.

The English language entry criteria will be as indicated on the UOW website.

### Credit Towards Other Courses

On completion of the Graduate Diploma in Management, students who achieve a mark of at least 55% will be eligible to articulate into the Master of Strategic Management, the Master of Strategic Management and Marketing, or the Master of Strategic Human Resource Management which can be completed with a further four (4) 900-level subjects in their discipline.

Graduate Diploma candidates who enrol in a Masters program may not enrol in subjects they have already completed in the Graduate Diploma course.

### Course Program

The course consists of eight (8) 6 credit point subjects as follows:

Two (2) core subjects:

Subjects	Session	Credit Points
MGMT930 Strategic Human Resource Management	Autumn	6
MARK922 Marketing Management	Autumn	6

The six (6) other subjects for the Diploma can be selected from:

Subjects	Session	Credit Points
MGMT910 Strategic Management	Spring	6
MGMT920 Organisational Analysis	Autumn	6
MGMT908 Human Resources Development	Autumn	6
MGMT911 Organisational Behaviour	Spring	6
MGMT915 Management of Change	Spring	6

MGMT940	Innovation and Entrepreneurship	Spring	6
MGMT941	Small Business Management 1	Autumn	6
MGMT946	Personal Learning: The Reflective Manager	n/o 2007	6
MGMT949	Performance Management	n/o 2007	6
MGMT963	Management of OH&S	Spring	6
MGMT969	Job Analysis, Recruitment & Selection	Autumn	6
MGMT975	Negotiation, Advocacy and Bargaining	n/o 2007	6
MGMT978	Cross Cultural Management	Autumn	6

## Master of Marketing - Research

Testamur Title of Degree:	Master of Marketing - Research
Abbreviation:	MMark-Res
Home Faculty:	Commerce
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1336
CRICOS Code:	042552J

### Overview

The Master of Marketing (Research) provides graduates with the opportunity to undertake further in-depth study in marketing, in preparation for a professional career as a marketing expert.

### Entry Requirements / Assumed Knowledge

This program is primarily a research program for those who have completed an Honours Bachelor degree in the Faculty of Commerce at a standard of Class II, Division 2 or higher, or an equivalent degree. Candidates who have completed a Masters program may be admitted. Honours and Masters candidates may be awarded advanced standing of up to 24 credit points for the coursework component of the program on the basis of previous research-related subjects. Candidates who hold a Bachelor of Commerce degree at credit level or above may be admitted to the program after an appropriate program of preliminary study prescribed by the Head of School.

### Course Requirements

The Master of Marketing (Research) is a 72-credit point program, comprising 24-credit points of coursework and a 48-credit point thesis. Candidates will be expected to undertake the following subjects.

### Course Program

Subjects	Session	Credit Points
MARK977      Research for Marketing Decisions	Autumn	6
OR      another 6-credit point research-oriented subject approved by the Head of School		
PLUS      three 900-level 6-credit point subjects as approved by the Course Coordinator		
PLUS		
THES924      Thesis full-time	Autumn/Spring	48
THES912      Thesis part-time		

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## Master of Strategic Management and Marketing

Testamur Title of Degree:	Master of Strategic Management and Marketing
Abbreviation:	MSMM
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong and other locations (subject to demand)
UOW Course Code:	1558
CRICOS Code:	053935C

### Overview

The Master of Strategic Management and Marketing is a cross-discipline degree designed to give students professional knowledge in both areas. For details see Management section.

## Master of Strategic Marketing

Testamur Title of Degree:	Master of Strategic Marketing
Abbreviation:	MSM
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1538
CRICOS Code:	042627F

### Overview

The program is designed to enhance graduates' career opportunities in the marketing field. Students will have the opportunity to study in-depth a wide range of advanced topics in marketing and gain both generalist and specialist marketing skills that are professionally-oriented.

### Entry Requirements / Assumed Knowledge

Applicants must have a Bachelor degree in Commerce or Business with a grade average of 60%. Applicants with a mark of 50-59% will be considered with two years supervisory or managerial work experience in a marketing related context.

### Course Requirements

Students are required to formalise an intended program with the Postgraduate Coordinator. Programs are tailored for individual students, based on their previous study and areas of interest. Subjects will generally be selected from the following list. Subject availability may vary each session and year, depending on demand.

### Course Program

Candidates are to take three (3) compulsory subjects as follows:

Subjects	Session	Credit Points
MARK922 Marketing Management	Autumn	6
MARK935 Marketing Strategy	Spring	6
MGMT930 Strategic Human Resource Management	Autumn	6

Candidates to select five (5) subjects from the following schedule, subject to availability and demand:



Subjects		Session	Credit Points
MARK901	Marketing on the Internet	Spring	6
MARK917	Business to Business Marketing	Autumn	6
MARK920	Social Marketing	Spring	6
MARK936	Consumer Behaviour	Autumn	6
MARK938	Managing Services and Relationship Marketing	Spring	6
MARK940	Marketing Communications	Autumn	6
MARK956	Creating and Marketing New Products	n/o 2007	6
MARK957	International Marketing Strategy	Autumn	6
MARK970	Contemporary Issues in Marketing	n/o 2007	6
MARK977	Research for Marketing Decisions	n/o 2007	6
MARK995	Tourism Marketing	Spring	6
MARK997	Retail Marketing Management	Autumn	6
MARK989	Marketing Special Topic	Autumn/Spring	12

## Graduate Diploma in Marketing

Testamur Title of Degree:	Graduate Diploma in Marketing
Abbreviation:	GDipMark
Home Faculty:	Commerce
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1502
CRICOS Code:	052926A

### Overview

This program is designed for students from disciplines other than Commerce to enable them to gain a qualification in marketing.

### Entry Requirements / Assumed Knowledge

Applicants will be eligible for entry to this Diploma on the basis of a Bachelors degree (or equivalent), received from a recognised tertiary institution. Applicants without a degree will be considered with other professional or academic qualifications (minimum duration two years) from a recognised tertiary institution plus relevant supervisory or managerial work experience of at least 3 years full-time in a marketing role.

The English language entry criteria will be as per the UOW website.

### Credit Towards Other Courses

On completion of the Graduate Diploma in Marketing, students who achieve an average mark of at least 55% will be eligible to articulate into the Master of Strategic Marketing, or the Master of Strategic Management and Marketing which can be completed with a further four (4) 900-level subjects. Graduate Diploma candidates who enrol into a Masters program may not enrol in subjects they have already completed in the Graduate Diploma course.

### Course Requirements

The Diploma will consist of eight (8) 900-level subjects, to be taken from a prescribed schedule. Two of these will be core subjects, and the others will be electives.

### Course Program

Candidates will be required to take two (2) compulsory subjects as follows:

Subjects	Session	Credit Points
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Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	MARK922	Marketing Management	Autumn	6
	MGMT930	Strategic Human Resource Management	Autumn	6
	Plus candidates can select six further subjects from the following schedule, subject to availability and demand, and subject to the approval of the Head of Discipline.			
	<b>Subjects</b>		<b>Session</b>	<b>Credit Points</b>
Commerce	MARK901	Marketing on the Internet	Spring	6
	MARK917	Business to Business Marketing	Autumn	6
	MARK920	Social Marketing	Spring	6
	MARK936	Consumer Behaviour	Autumn	6
	MARK938	Managing Services and Relationship Marketing	Spring	6
	MARK940	Marketing Communications	Autumn	6
Creative Arts	MARK956	Creating and Marketing New Products	n/o 2007	6
	MARK957	International Marketing Strategy	Autumn	6
	MARK970	Contemporary Issues in Marketing	n/o 2007	6
	MARK977	Research for Marketing Decisions	n/o 2007	6
Education	MARK995	Tourism Marketing	Spring	6
	MARK997	Retail Marketing Decisions	Autumn	6
	MARK989	Marketing Special Topic	Autumn/Spring	12
Engineering				
Graduate School of Business				
Health & Behavioural Sciences				
Informatics				
Law				
Science				

## SUBJECT DESCRIPTIONS

### ACCY850 Public Sector Financial Management and Controls

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

### ACCY901 Accounting Foundations For Professionals

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ACCY101, ACCY190 or ACCY100 and ACCY102

**Subject Description:** This subject is an introduction to the principles of both financial and management accounting. Students will gain an understanding of the preparation, interpretation and utilisation of the major types of reports and the analyses prepared by accountants for management decision making.

### ACCY902 Applied Financial Accounting

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** ACCY901

**Co-requisites:** None

Exclusions: ACCY908

**Subject Description:** This subject examines the practical aspects of financial accounting including issues in external reporting, accounting for groups of companies and the taxation of companies. It also includes an analysis of reporting theory as it relates to legal and economic factors and professional ethics.

### ACCY903 Theoretical Foundations of Accounting

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** ACCY901

**Co-requisites:** None

**Subject Description:** The subject critically analyses the nature of theory, research and theory formation. It includes a study of the methods used in theory formation and attempts to formulate theories of accounting.

### ACCY904 Financial Accounting

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject covers an in-depth study of the basis of external financial reporting, including asset valuation and periodic profit measurement. The subject also includes a study of the elements of financial accounting and their communication in accounting reports.

### ACCY905 International Accounting

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines differences in accounting thought and standards between countries. Topics include influence of national outlook and policies and of economic infrastructure on accounting practice, uniform systems of accounting, corporate growth and its impact on accounting and auditing, comparative study of auditing and reporting standards, and international aspects of public accounting practice. The subject also covers multi-national corporation and the effect of changing price levels on accounting for international operations.

### ACCY906 Issues in Financial Accounting

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject deals in contemporary issues in financial reporting to external parties, including accounting for different classes of assets, liabilities and equities. The subject also covers legal, institutional and professional reporting requirements including proposals for improvement in accounting principles applied in practice.

### ACCY907 Empirical Research Methods

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject provides an overview of the ways accounting and finance researchers identify, formulate and investigate empirical questions in accounting and finance. Subjects include the criteria adopted to select research projects, issues of experimental design, validity threats, measurement problems and statistical analysis. Selected published accounting and finance research will be used to illustrate established methods of empirical research.

### ACCY909 Comparative Accounting Systems

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject presents an in-depth examination of the patterns of accounting development in different national political environments. Topics covered include key variables determining the differential accounting development patterns and their implications, in particular, for multinational reporting, will be critically evaluated. Approaches for resolving the problems posed by the diversity of accounting systems will also be considered.

### ACCY910 Issues in International Accounting

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides specific current issues that may be examined in-depth, including harmonisation of accounting standards and practices, foreign currency accounting, internal control and performance evaluation problems in foreign

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	subsidaries, and international transfer pricing problems. Content may be revised subject to the currency of specific issues and in light of student interests.	
Commerce	<b>ACCY913 Management Accounting</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject deals with the conceptual basis of management accounting and information systems including an examination of traditional and alternative theories and approaches shaping organisational and behavioural aspects of management accounting. Topics covered include the contingency approach, the agency approach, control system theories, activity based accounting and critical accounting approaches	<b>ACCY933 Studies in Information Systems in Accounting</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject examines theoretical and practical aspects of contemporary information theory in accounting system evaluation, design, implementation and management. Accounting and associated computer applications, sociological and ethical implications as well as research issues are explored.
Creative Arts	<b>ACCY914 Management Planning and Control Systems</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject presents an in-depth analysis of selected aspects of the design and evaluation of management accounting, planning and control systems in both the private and public sectors.	<b>ACCY936 Management and Information Systems</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject deals with the effective use and control of information systems, particularly computer-based information systems, and the likely impact of developments in this area on management functions and how managers carry out those functions.
Education	<b>ACCY916 Studies in Controllershship</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject examines the role and functions of the Chief Accounting Officer including designing, installing and managing accounting systems – both financial and managerial. Specific problem areas in controllershship, as depicted in selected case studies are also covered.	<b>ACCY943 Auditing and Accounting Information Systems</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject presents the general principles of auditing applied to the audit of computer-based accounting systems as well as the use of computers as an auditing tool. Particular emphasis on the positive aspects of auditing and internal control, including their contribution towards improvements in: (a) management functions such as planning; and (b) the quality (both real and perceived) of information flows within an entity and between it and external parties are also covered.
Engineering	<b>ACCY918 Applied Management Accounting</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> ACCY901 <b>Co-requisites:</b> None <b>Subject Description:</b> This subject covers an in-depth applied analysis of selected topics in management accounting. Topic selection may include decision theory and analysis, financial model building, cost prediction and control techniques, pricing, management accounting systems design, and the interrelationships between management and the management accounting system. Theoretical concepts developed in other management accounting subjects will also be expanded as needed to support the complex applications being studied.	<b>ACCY944 Issues in Auditing</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides an in-depth examination of contemporary topics in auditing with emphasis on controversial and theoretical issues, including social and ethical issues, the role of quantitative techniques in the audit function, continuous auditing concept, uncertainty reporting, audit performance evaluation, extension of the attest function and public sector auditing.
Graduate School of Business	<b>ACCY931 Advanced Decision Support Systems</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will examine the theoretical foundations for Decision Support Systems.	<b>ACCY950 Introductory Forensic Accounting</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None
Health & Behavioural Sciences		
Informatics		
Law		
Science		

**Subject Description:** This subject provides a broad based overview of forensic accounting within a corporate governance and accountability framework and is designed for progression to more specific topics. Subject content will deal with statutory regulation of corporations and other economic entities including not-for-profit entities in Australia and the Asia-Pacific Region. It will provide an overview of the role of accounting, audit and finance in regulatory and corporate governance frameworks. Students will be introduced to the nature of forensics and its role in the regulatory framework as well as within the legal and ethical framework of corporate governance including the role and duties of directors, executive officers, chief financial officers and management.

#### **ACCY951 Forensic and Litigation Framework**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will introduce students to the nature and purpose of forensic systems including risk assessment and management and audit procedures and guidelines. It will draw on accounting and audit standards and guidelines issued by CPA Australia, ICAA and IFAC. The subject will facilitate the acquisition of skills aimed at identifying and assessing an organisation's risk profile and appropriate responses. It will also lay the foundations for the development of knowledge and understanding of the judicial system, law of evidence, preparation of working papers and expert witness preparation and presentation of evidence.

#### **ACCY952 Fraud and Failure**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will build on the knowledge and skills acquired in ACCY 950 Introductory Forensic Accounting and ACCY 951 Forensic and Litigation Framework. It draws on case studies and actual instances of fraud and other irregularities, corporate governance failures and mismanagement in the corporate, financial and not-for-profit sectors. This material will be used to develop skills for identifying suspicious or irregular activities and analysis and investigation of those activities. The subject matter will include detailed analysis of transactions and events in the context of asset fraud and mismanagement, financial statement manipulation and banking and financial markets transactions and document fraud including cheques, credit cards, letters of credit and securities.

#### **ACCY953 Investigative Processes**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to analytical and statistical techniques and systems aimed specifically at identifying/predicting the presence of irregularities, fraudulent and non-fraudulent, in the activities of corporate, financial and not-for-profit entities. Students will acquire knowledge and skills in non-quantitative, simple quantitative and

advanced quantitative analytical review procedures in order to evaluate financial information and identify relationships between financial and non-financial data. Strategic analysis including statistical analysis and modelling will be introduced to facilitate knowledge and understanding of risk assessment, including credit risk, fraud detection, and market interactions.

#### **ACCY954 Advanced Investigative Techniques**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to advanced techniques of risk assessment and management, detection of fraud and mismanagement, corporate governance and performance assessment and electronic auditing. The focus of the subject is sophisticated quantitative analysis, especially the use of computer assisted analytical procedures, of key operating and financial aspects of economic entities including forecasting, marketing, networking or strategic partnerships and computer systems. The importance to detection and assessment of fraud, risk, mismanagement and corporate governance and performance of a thorough understanding of an entity's components, structure and environment, including cause and effect interactions is emphasised.

#### **ACCY957 Independent Accounting Expert Reports**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject draws on accounting professional standards and guidelines dealing with the identification and collection of forensic evidence, preparation of expert reports and appearing as an expert witness in a court of law. Common law and statutory requirements concerning the law of evidence are integral to this subject. Accordingly, a broad range of litigation eg fraud, divorce settlements, disputes between business partners, solvency and related matters, will be examined

#### **ACCY958 Research Project A**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with an opportunity to undertake independent research in specialised area within the broad topic area, fraud in a global economic environment. The specialised area must be selected in consultation with the subject co-ordinator and would fall within one of the following areas: international regulatory framework; identifying transnational corporate fraud; and forensic analysis of transnational corporations.

#### **ACCY959 Research Project B**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<p><b>Subject Description:</b> This subject provides students with an opportunity to undertake independent research in specialised area within the broad topic area, globalisation and financial fraud – case studies. The specialised area must be selected in consultation with the subject co-ordinator and would fall within one of the following areas: transaction and banking fraud; currency (including forgery), financial fraud using the internet, off-shore banking and illegal money, underground banking, money laundering, tax havens and fiscal termites, financial terrorists.</p>
Commerce	<p><b>ACCY961 Professional Practice - Accounting</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> accy901 <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is concerned with statements of Accounting Standards, statements of Accounting Practice and the impact of corporation law on the practice of accountancy.</p>
Creative Arts	
Education	<p><b>ACCY962 Professional Practice- Auditing &amp; Risk Assurance</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> accy901 <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides an examination of auditing and its integral role in the contemporary practice of accounting together with the legal environment which impacts upon it.</p>
Engineering	
Graduate School of Business	<p><b>ACCY963 Professional Practice - Taxation</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> accy901 <b>Co-requisites:</b> None <b>Subject Description:</b> This subject includes a detailed examination of the relevant legislation relating to taxation, including income tax and the GST. The application of this legislation is also discussed.</p>
Health & Behavioural Sciences	<p><b>ACCY968 Insolvencies</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject deals with accounting and legal aspects of corporate and non-corporate insolvencies including liquidations &amp; receivership, and the use of insolvency procedures as a management strategy.</p>
Informatics	
Law	<p><b>ACCY969 Financial Management For Health Services</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject investigates the movement away from the management of costs towards the management of value for money. As such, it is concerned with the measuring and monitoring of efficiency. Accounting tools will be used to investigate quality of care, outcome, utility, products, utilisation and resource allocation.</p>
Science	

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<p><b>ACCY973 History of Accounting Thought</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject covers an examination of the environmental factors and processes by which accounting thought, practices and institutions originated and developed in the ancient, medieval and modern eras. Topics include ancient accounts, special-purpose account-keeping in the Middle Ages, philosophy, influence and constraints of the double-entry system, development of basic concepts of continuity, accrual accounting and limited liability. The Industrial Revolution, the changing corporate environment on accounting development and legislation and institutional influences on accounting are also examined.</p>
<p><b>ACCY974 Accounting Regulation</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject presents an in-depth study of the regulation of accounting practice and procedures, the accounting profession and measurement and disclosure in external financial reporting. This could include an examination of the consequences of regulation, alternative institutional arrangement for setting standards, the impact of accounting theory on standard setting, and a historical review of accounting regulation.</p>
<p><b>ACCY983 Studies in Government Accounting</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject covers a detailed examination of selected areas in federal, state, regional or local government accounting.</p>
<p><b>ACCY985 Special Topic in Accounting-A</b> Spring Wollongong On Campus Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is a special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. The selection would be made by the Head of the Discipline, taking into account the expertise of academic staff, including visiting staff, and the interest of students.</p>
<p><b>ACCY986 Special Topic in Accounting-B</b> Spring Wollongong On Campus Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is a special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. The selection</p>



would be made by the Head of the Discipline, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

### ACCY993 Research Essay

Autumn Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is an individual program determined in consultation with the Head of Discipline.

### ACCY994 Project

Autumn Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is an individual program determined in consultation with the Head of Discipline.

### ACCY995 Research Project

Annual Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is an individual program determined in consultation with the Head of Discipline.

### ACCY996 Thesis

*Not on offer in 2007*

**Credit Points:** 48

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is an individual program determined in consultation with the Head of Discipline.

### BUSS906 Strategic Information in Organisations

Spring Wollongong On Campus  
Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject establishes a basis for understanding the role of information systems in organisations and how such systems relate to organisational objectives, structures and procedures. Using systems theory plus other social theories including activity theory, the topics covered will include: the system concept in an organisation, information flows and decision processes, techniques and skills in representing system structures and integration of information systems into the organisational structure.

### BUSS907 Fundamentals of e-Business

Spring Wollongong On Campus  
Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject aims to provide an understanding of the scope of electronically supported commercial activities. The use of electronic commerce to achieve strategic advantage at the organizational, local and global arena will also be examined, with reviews on the broader social implications of electronic commerce.

### BUSS909 Information Automation and Organisational Workflow

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject examines the specification, customisation and uage of multimodel document management and workflow with an emphasis on the integration of systems, people and communication to improve productivity in organisations.

### BUSS910 Qualitative Analysis of Systems

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines newly emerging qualitative, contextual and interpretivist theories and methods used to describe information systems, the process of systems development, and change processes in organisations which emphasise relationships between technical and social change. The subject utilises interdisciplinary approaches drawn from critical theory, discourse analysis, ethnography and anthropology. The subject will also examine the implications of these approaches to the discipline and practice of systems analysis and development in organisations. Students will be involved in applying these theories and methods to system case studies and will be introduced to tools that support these approaches.

### BUSS911 Intelligent Systems

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject considers the theory and practice of intelligent information systems development. It introduces the core principles of knowledge representation and reasoning, as well as techniques involved in knowledge acquisition, machine learning, planning and search. It then examines how these techniques are deployed in practical settings by considering applications such as expert systems, constraint programming, multi-agent systems, data mining and web information retrieval.

### BUSS924 Systems Modelling and Simulation

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject aims to introduce the concepts of systems modelling and simulation, and its role in analysing the operation characteristics of a system for supporting management in decision making. Both discrete and continuous systems modelling and simulation will be covered.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<b>BUSS926 Decision Support Systems</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> A central concern for the field of Information Systems is the design and implementation of computer systems to support managerial decisions and organisational processes. This requires a good understanding of the process of decision making and the ability to model decisions effectively besides gaining familiarity with a range of software tools for building such systems. This subject will provide a comprehensive review of model-based and data-driven approaches to building systems to provide decision support in organisations. It will have an interdisciplinary thrust drawing on concepts and theories from Information Systems, Computer Science, Management Science among others.	<b>BUSS945 Information Systems Project</b> Spring2007/Autumn2008 Wollongong On Campus Annual Wollongong On Campus Autumn Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The aim of this subject is to provide students with the opportunity to study a topic of research interest either within a staff research group in the Information Systems Discipline. The project will be completed under staff supervision and culminates in the production of a substantial written report plus other products such as computer software as appropriate to the project. The subject aims to provide students with the opportunity under staff guidance to investigate/research an area or topic of interest in-depth in the IS Discipline; gain experience in the use of one or more methods, techniques and/or tools of one or more applicable research paradigms; gain experience in organising and using their time and efforts within specified constraints to produce a major piece of work in the form of a final report.
Commerce		
Creative Arts		
Education	<b>BUSS927 Human Computer Interaction</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to be counted with BUSS227 <b>Subject Description:</b> This subject examines usability theory methods and practices in the context of practical information systems in organisations. The subject is intended to provide students with an understanding of and experience in usability design and evaluation practice. Topics include Interface Constituents; Basic Interaction including Event Handling, Model-View Controller Architecture, Abstract Devices, Look and Feel, Widgets and Interfaces, Layout, Interactivity in the Context of Interaction, and Interaction Styles; Usability Paradigms and Principles including functional models, task-oriented functional design, task analysis and evaluation analysis; HCI Interaction Models including social, organisational, informational and ergonomic design; Design Processes; and Usability in Action.	<b>BUSS946 Information Systems Project Part 1</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is specifically for students commencing in Spring Session the information systems project specified in BUSS945. This subject together with BUSS947 Information Systems Project Part 2 (Autumn Session) is equivalent to BUSS945.
Engineering		
Graduate School of Business		
Health & Behavioural Sciences	<b>BUSS929 Information Systems Research Methods</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject aims to provide a substantive and methodological introduction to research in the field of Information Systems. While the primary focus will be on the different research methods for doing research in this field, some content-related issues are bound to come up during the course of the discussions in the class. It is expected that, on completion students will be able to critically read and relate to published research and to develop sufficient research skills to be in a position to undertake thesis and other independent research in information systems. The students should also develop an appreciation for the criteria as to what constitutes 'good' research using each of the methods discussed and the appropriateness of each for specific research questions.	<b>BUSS947 Information Systems Project Part 2</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is specifically for those who commenced their project in the previous Spring Session in BUSS946.
Informatics		
Law		
Science		<b>BUSS950 Systems Development Methodologies</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides an introduction to and overview of systems development methodologies for both historical and philosophical perspectives; an introduction to frameworks and issues which may be used to assess and compare different system development methodologies; an introduction to and comparison of the tools and techniques of a selection of systems development methodologies and the phases and stages of the systems development life cycle to which they are applicable and the opportunity to gain some in-depth knowledge of selected methodologies, techniques, tools, frameworks or issues via assignments.



## **BUSS951 Critical Issues in Information Systems**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject explores the critical issues of current concern to information systems researchers and practitioners in organisations. It will provide both a broad comparative view of state of the art organisational information systems and a detailed study of the development and application of selected systems currently being researched within the Information Systems Discipline.

## **BUSS952 Strategic Information Systems Management**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject aims to provide students with: an overview and analysis of the most important issues facing IS managers in organisations today; descriptions of useful and acceptable IS structures and planning processes, and how to objectively and ethically apply them in varying organisational contexts; an insight into typical mechanisms used for managing IS staff within the organisation.

## **BUSS953 Management of Information Systems Development**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides an introduction to, and overview of, the knowledge and skills required to successfully manage computer-based systems development projects within an organisational setting. Topics and issues considered include: Information Systems project management and its organisational context; inter-organisational arrangements for e-business including B2B and B2C frameworks, project management tools and techniques; feasibility study methods; resource estimation techniques; behaviour and management of Information Systems project groups; systems development environments for professionals and end-users; quality assurance; project and system evaluation.

## **COMM980 Business Research Methods**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is designed to provide research students in the Faculty of Commerce with a background to the methodology and practice of social science research. A major goal of the subject is to provide a 'kick-start' for students who are beginning, or are planning to carry out their first major research study on a Commerce-related topic (this would cover, for example, the fields of management, marketing, employment relations, business systems, organisational studies and accounting). The subject will provide

an introduction to philosophical underpinning of social science research, the practical issues associated with the conduct of research (including project management and research ethics), as well as an overview of the main qualitative and quantitative methods used to collect and analyse social research data.

## **ECON901 Monetary Economics**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON301

**Subject Description:** This subject focuses on the monetary aspects of the macro-economy. It comprises two parts. The first focuses on a comparison of the monetary transmission mechanism and policy implications arising from the Classical, Keynesian, Monetarist and New Classical theories. The second section analyses the money supply and its control, the conduct of monetary policy, money in the open economy, inflation and the Australian financial system.

## **ECON902 Advanced International Monetary Economics**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON307

**Subject Description:** This subject is a study of monetary aspects of international economics. It comprises two parts. In Part A we examine theoretical approaches to the balance of payments and exchange-rate determination. In Part B we analyse selected issues in international monetary economics.

## **ECON903 Public Finance**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject further develops topics encountered in the undergraduate public finance course. Particular emphasis will be placed on issues surrounding inter-governmental fiscal relations in a federal system. Questions of fiscal transfer mechanism, divisions of powers and responsibilities and the equalisation measures which might be used will be considered.

## **ECON904 Trade, Growth and Development**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The following topics will be covered: The WTO as an international organisation; capital-skill complementarity between new investment and technical progress; concerns about the role of international trade on growth and development; the role of multinational corporations in trade and technology transfers; human development, economic democracy and shared growth; international economic institutions (IBRD, IMF, WTO) and the national economies. Examples will be cited from developing and developed countries.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<b>ECON906 History of Economic Thought</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ECON316 <b>Subject Description:</b> This subject is designed to introduce students to the main developments in economic theory from the 17th to 20th centuries. Internal changes in theories, relationships between successive theories and external influences on this development will be examined. Students will be expected to read widely in both primary and secondary sources.
Commerce	<b>ECON907 Cost-Benefit Analysis</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ECON310 <b>Subject Description:</b> This subject involves the study of the theoretical foundations and practical techniques of social cost benefit analysis (CBA). Theoretical considerations include the study of Pareto optimality and the Pareto criterion, the concept of a social welfare function, the Kaldor-Hick compensation principle, theories of market failure, shadow pricing, consumer and producer surplus, and social time preference. Methods of valuing benefits and costs will be studied including the use of market values and techniques that might be used when market prices are not appropriate or not available (such as contingent valuation and hedonic pricing). Alternative CBA decision criteria will be evaluated and compared. Methods of sensitivity analysis will be studied and evaluated. Cost benefit case studies will be reviewed. Spreadsheet skills will be developed and applied to complex situations where cost benefit methods are appropriate. The practical limitations of cost benefit analysis will be studied.
Creative Arts	
Education	
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	<b>ECON908 Advanced Topics in the Economics of Development</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ECON303 <b>Subject Description:</b> The subject provides an in-depth analysis of economic development in both theory and experience. Topics include economic growth versus economic development; poverty and inequality; population growth; unemployment and rural-urban migration; technological change; peasant agriculture and agricultural productivity; human capital and development; the role of capital; credit and institutions; as well as the international dimensions of development and development policy.
Informatics	
Law	
Science	<b>ECON909 Econometric Theory</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject deals with advanced topics in the theory and practice of econometrics and covers contemporary issues of model

specification, estimation, testing, and forecasting. The subject will be based on journal articles in which the current econometric issues are discussed.

### ECON910 Economics for Accounting Professionals

Spring Wollongong On Campus  
 Autumn Wollongong On Campus

**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** This subject provides the student with knowledge of the essential principles of economics and the aspects of the economic system which are particularly relevant to professional accountants. The subject will examine key topics in microeconomics and international economics that are used in business and managerial decision-making, focusing on how they influence accounting outcomes and project evaluations. These topics will include price theory, cost analysis, profit determination and exchange rate determination. The subject will also introduce students to the economic perspective underlying business issues such as wage rate determination, environmental policy, income distribution and international trade.

### ECON911 Advanced International Economics

*Not on offer in 2007*  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
 Exclusions: Not to count with ECON216  
**Subject Description:** This subject is designed to provide an introduction to international trade theory and international trade policy. It will examine the theory, policies, practices and institutions of relevance to a country's trade with other nations. The following broad issues will be considered including why nations trade with each other; the gains and losses from free trade to the nations involved; the determination of the pattern of international trade and production; the effects of various commercial policies on the nations involved and on the welfare of various groups within those nations; how the foreign exchange market works and in what ways it facilitates or impedes international trade; the possible effects of exchange-rate policies on a country's production, employment and price level; how a country's trade performance is linked to its external debt and economic growth; and how can trade affect the local and global environment?

### ECON912 Labour Economics

*Not on offer in 2007*  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
 Exclusions: Not to count with ECON308  
**Subject Description:** This subject studies labour supply, labour demand and wage rate determination in a market-orientated economy. The subject emphasises the development and application of economic theory rather than an institutional approach to analyse labour markets. Several areas of application are drawn from the following and analysed in some detail. The effects of welfare programs on labour-market participation and hours of work; the effects of imposing a minimum

wage in both competitive and non-competitive labour markets; the theory of human capital and its use in explaining observed earnings differentials; an explanation for occupational wage differentials, discrimination in the labour market; the rationale for labour unions; the economic impact of labour unions; and the causes of unemployment. Examples relate mostly to the Australian and US labour markets although some comparisons are drawn with labour markets in other countries.

### ECON913 Industrial Organisation

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON312

**Subject Description:** This subject provides the theoretical basis for the analysis of firm structure, conduct and performance. It focuses on issues related to the implementation of competitive policy from both national and international perspectives.

### ECON915 Electronic Commerce and the Economics of Information

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON319

**Subject Description:** This subject analyses the impact of electronic commerce on the markets for consumer goods and services and factors of production. Reasons for the dramatic increase in the use of electronic commerce and its effects on consumers, business firms and the wider community will be explored. Special attention will be given to the implications for small and medium-sized firms and the impact of electronic commerce on the globalisation of markets. The subject develops the theory of the economics of information, technology and transaction costs and investigates the role and value of information in decision making.

### ECON916 Economics of Education, Health and Welfare

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON315

**Subject Description:** Several areas of microeconomic theory will be selected for advanced treatment. Within each topic contemporary applications will be explored after the development of a theoretical base.

### ECON918 Economics of Health Care

Autumn Wollongong On Campus

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON318 or ECON317

**Subject Description:** The subject surveys economic aspects of the Australian health care system. Topics covered will include the supply and demand for health services, health care delivery systems, health

insurance, social statistics and medical decision making. Government policies influencing all aspects of health care will be analysed and evaluated.

### ECON921 Econometric Models

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** ECON221 or equivalent subjects approved by Head of Discipline

**Co-requisites:** None

Exclusions: Not to count with ECON327

**Subject Description:** This subject develops the foundations of econometric models. Both time series analysis and simultaneous equation models will be studied. The subject will emphasise suitable model building with economic content, obtaining estimates with desirable properties, testing procedures, model evaluation and selection, and the application of econometric models. Examples from current Australian econometric models will be critically examined.

### ECON924 International Economic Relations

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with INTR920 and ECON982

**Subject Description:** The subject will examine policy issues in the international economy, especially as they affect the Asia-Pacific region. The role of international economic organisations such as the IMF, World Bank, and GATT will be emphasised as well as issues such as free trade, protectionism, exchange rate determination and international capital flows. Options available to individual countries for international economic policy will be explored.

### ECON927 Innovation and Technology in the New Economy

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON227 or ECON229

**Subject Description:** This subject provides economic conceptual frameworks in which to think systematically about the economy, technology, innovation and related policy issues. The course does not include theory for the theory's sake, but presents and uses theoretical tools as a means to the end of gaining better understanding of the role of innovation-related policy issues in the context of a creative economy. Although the concepts and tools developed are relevant to all countries, special attention will be given to Australian and other OECD economies.

### ECON933 Conflict and Cooperation

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** ECON111 and ECON122

**Co-requisites:** None

Exclusions: Not to count with ECON333

**Subject Description:** This subject provides study of advanced topics in game theory. The subject builds on traditional analytical techniques in economics based on assumptions of certainty and competitive markets.

Arts	
Commerce	
Creative Arts	
Education	
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

Arts	Using game theory, the analysis is extended to settings that traditional economic analysis is unable to cope with. These typically involve incorporating risk and uncertainty, asymmetric and incomplete information and strategic situations where the assumptions of competitive markets do not apply. The emphasis is on theoretical developments and the application of the central tools of game theory to real world problems of business and economics involving strategic interactions between parties.
Commerce	<b>ECON935 Advanced Managerial Economics and Operations Research</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ECON332 <b>Subject Description:</b> This subject provides study of advanced quantitative techniques applicable to economic and managerial decision-making. This subject covers a wide range of quantitative analyses such as forecasting techniques, Bayesian analysis, Markov process models, PERT, CPM and specialised network algorithms, risk preference analysis, transportation and assignment models and quadratic and nonlinear programming.
Creative Arts	
Education	
Engineering	<b>ECON936 Graduate Macroeconomics</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ECON205 <b>Subject Description:</b> This subject analyses the major factors which determine macroeconomic behaviour and associated policy prescriptions. The effects of consumption and investment, international factors, monetary and fiscal policies on aggregate demand are examined. The determination of wages and prices, inflation and unemployment are also considered in terms of aggregate supply.
Graduate School of Business	
Health & Behavioural Sciences	<b>ECON937 Graduate Microeconomics</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides study of the demand for, and the supply of, goods and services, and price determination in a market-orientated economy. This subject develops, from its axiomatic foundations, the economic theory of consumer choice and market demand, and the economic theory of the firm and market supply. The subject provides students with a strong foundation in microeconomic theory in order to facilitate further post-graduate study in both theoretical and applied fields of economics.
Informatics	
Law	
Science	<b>ECON938 Environmental Economics</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ECON309 <b>Subject Description:</b> This subject will provide a comprehensive analysis of environmental issues utilising the theory of economic externalities and

the theory of ecologically sustainable development. Methods used to correct environmental problems and to measure externalities will be analysed. The subject will also evaluate environmental policies in Australia, developing countries and in the international economy.

### ECON939 Quantitative Economic Analysis

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON221

**Subject Description:** This subject develops the fundamental concepts of econometrics used in applied economic work in the academic, business and government sectors. The subject covers the standard and non-standard econometric models based on time series, cross-section and qualitative data. Emphasis will be on applications of the econometric methodologies to empirical research.

### ECON940 Statistics for Decision Making

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject develops principles of descriptive and inferential statistics, and their applications in the business environment. A foundation of descriptive statistics and probability is first developed, followed by discussion of the concepts and principles of statistical inference. Several topics in statistical inference are then examined including confidence intervals, hypothesis testing, statistical quality control, regression analysis and forecasting. Case studies are used to demonstrate the application of statistical methodology to aid business decision making.

### ECON941 Advanced Topics in Economics - A

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics for this subject may be drawn from any area of economics which the Head of the Discipline considers to be suitable preparation for a higher degree and appropriate to the student's special interests.

### ECON942 Advanced Topics in Economics-B

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics for this subject may be drawn from any area of economics which the Head of the Discipline considers to be suitable preparation for a higher degree and appropriate to the student's special interests.

### ECON943 Advanced Topics in Economics - C

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics for this subject may be

drawn from any area of economics which the Head of the Discipline considers to be suitable preparation for a higher degree and appropriate to the student's special interests.

### **ECON982 International Economic Relations**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON924 or INTR920

**Subject Description:** The subject will examine policy issues in the international economy, especially as they affect the Asia-Pacific region. The role of international economic organisations such as the IMF, World Bank, and GATT will be emphasised as well as issues such as free trade, protectionism, exchange rate determination and international capital flows. Options available to individual countries for international economic policy will be explored.

### **ECON983 Trade and Industry in East Asia**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON251

**Subject Description:** This subject studies the neo-classical, structuralist and culturalists views on industrialisation in Asia using country specific examples. It examines trade and industry policy, investment flows, economic integration and the international monetary system. The causes of Asian growth and meltdown are analysed. The strategies to overcome the main economic problems and the recent developments in the Asia-Pacific region are emphasised.

### **ECON984 Financial Economics**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ECON331

**Subject Description:** This subject provides advanced study of the theory of efficient acquisition, financing and composition of assets and production activities with applications in the fields of economics of the firm, agricultural economics and international economics. Optimal control methods and phase-plane diagrams are used for analysing efficient trajectories of capital investment and borrowing. Investors' portfolio choices and producers' activity sets will be analysed within a mean-variance expected utility maximisation framework.

### **ECON991 Project**

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

### **ECON992 Research Report**

Annual Wollongong On Campus

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

### **ECON993 Thesis**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Annual Wollongong On Campus

**Credit Points:** 48

**Pre-requisites:** None

**Co-requisites:** None

### **ECON996 Advanced Macroeconomic Theory**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject attempts a critical review of advanced contemporary macroeconomic theories and their policy prescriptions. In doing so the subject stresses the need to consider four important concepts, namely the international orientation of macroeconomics, the role of expectations and their formation, the importance of dynamics and speeds of adjustments and finally, the difficulty of formulating and implementing consistent, optimal macroeconomic policy in a changing world.

### **ECON997 Advanced Microeconomic Theory**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject provides a bridge between microeconomics at the undergraduate level and microeconomics in a good-quality PhD program. The subject extends and deepens the student's understanding of the theory of consumer behaviour and the theory of the firm and covers some new topics such as economic behaviour under conditions of uncertainty and the economics of information.

### **FIN 920 Advanced Risk and Insurance**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject deals with the concepts and technical description of risk, risk attitudes and preferences, and insurance. Conceptual models and tools discussed include those used to protect against portfolio risk in investments, other financial risks, such as exchange rate risk, and more general corporate risks, like regulatory risk. Specific risk management tools are learned by way of hypothetical application. These include share portfolio insurance using derivatives and hedging against currency exchange rate and interest rate movements in spot and derivative markets.

### **FIN 921 Managerial Finance**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ACCY921 and TBS 907

**Subject Description:** This subject presents the tools necessary for any finance professional, with an emphasis

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science



Arts	upon the management decision matrix and recognition of the professionalism necessary in modern industry contexts. Specific topics include financial ratio analysis, capital budgeting, long-term financial planning, current asset management, risk and return, investment decisions, financial policy and capital structure decisions, investment valuation, basic derivatives, and mergers and acquisitions.
Commerce	<b>FIN 922 Advanced Investment Analysis</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ACCY922 <b>Subject Description:</b> This subject is about the tools and logical frameworks with which decision makers choose their investments in a world characterised by uncertainty (risk). Emphasis is on investment in financial assets such as shares, bonds and futures rather than on real assets. Particular subjects covered include portfolio choice, allocations of investments between risky and riskless assets, the term structure of interest rates, asset pricing models, options pricing and hedging with derivatives.
Creative Arts	
Education	<b>FIN 923 Advanced Portfolio Management</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ACCY923 <b>Subject Description:</b> This subject examines advanced topics in the modern theory of optimal investment decision-making, portfolio theory, capital and derivative markets. The subject explores several major areas of interest including market efficiency models in valuing portfolios and securities, bond analysis, portfolio management and performance evaluation. The subject provides a theoretical framework within which all derivative securities can be valued and hedged and also examines the way in which they are traded.
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	<b>FIN 924 Advanced Financial Statement Analysis</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ACCY924 <b>Subject Description:</b> This subject examines the framework for financial statement analysis with discussion of the role of accounting information and intermediaries. Emphasis is on the appraisal and prediction of corporate financial performance from publicly available information such as accounting numbers, industry and economic statistics as well as other stock market data. Cases and problems are gradually introduced, provoking an analytical and creative thinking process ending with the evaluation and preparation of appropriate business strategies.
Informatics	
Law	
Science	<b>FIN 925 Banking Theory and Practice</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with ACCY925 <b>Subject Description:</b> This subject examines

bank management theory as applied to the practice of bank operations within the banking sector. It entails comprehensive discussion on issues that are commonly involved within the banking environment such as the regulatory structure, risk management, commercial and consumer lending, capital adequacy analysis, banking financial futures and forwards, the cheque clearing system and the latest information technology within the banking world.

### FIN 926 Advanced Corporate Finance

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ACCY926

**Subject Description:** This subject examines advanced aspects of financial controllership and corporate finance within the contemporary business environment. The subject first analyses the impact of less-than-ideal capital markets, information asymmetries and principal-agent conflicts on practical decision-making in the firm. It then investigates several specialised areas receiving increased scrutiny from corporate stakeholders including financial distress and restructuring, corporate governance, organisational architecture and risk management, debt and equity strategies, and mergers and acquisitions.

### FIN 927 Entrepreneurial Finance

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ACCY927

**Subject Description:** This subject deals with the financial management tools and techniques appropriate for small and medium-sized business enterprises. It includes study of potential investors and their mindset at various stages in the firm's life cycle, thus covering sources, uses and management of funds from pre-purchase to public listing. A case study approach is employed. Issues addressed include valuation, performance measurement, obtaining and organising finance, financial planning, and cost of financial capital and exit strategies.

### FIN 928 Multinational Financial Management

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ACCY928

**Subject Description:** This subject examines international finance and investment from the perspective of the multinational corporation. Topics studied include various aspects of the international monetary system, the Euromarkets, foreign exchange markets, internal and external exposure management techniques, currency futures and options, swaps, financing multinational corporation investment, multinational corporation investment decision making, political risk analysis and international taxation.

## FIN 929 Risk, Development and Venture Capital

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ACCY928

**Subject Description:** This subject examines the role, development and operations of the risk capital industry. Topics covered include the foundations and development of the risk capital industry, management structures, the investment decision making process, deal structures and post-investment involvement in entrepreneurial companies by venture capitalists. Since the risk capital industry has been promoted by governments throughout the world as a panacea for many economic woes, developments in international risk capital are also discussed.

## FIN 955 International Banking

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ACCY955

**Subject Description:** The global impact of banking is the focus of this subject. The subject incorporates comprehensive discussion of issues that commonly arise in the international banking environment. These include the development of the international monetary system, the deregulation of banking, methods of payment in international trade, foreign exchange markets, international lending and developments of new technology.

## FIN 956 Bank Lending and Securities

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ACCY956

**Subject Description:** This subject examines the bank's lending process and the securities associated with it. The subject includes comprehensive discussion on issues concerning lending within the banking environment, including regulation of security offerings, principles of good lending, documents involved in lending, lending and the consumer credit code, new developments in lending and securities and their impact on the banking sector.

## FIN 957 Portfolio Simulation

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with realistic stock market simulations and they are able to trade shares, options, bonds, managed funds, and international stocks. The core of the subject is in the construction and administration of a simulated investment portfolio using online method. Students are introduced to financial markets, order placement techniques, trading strategies and portfolio theory. Students experience the pressure of live markets and learn how to manage a portfolio. The subject bridges classroom theory with real-world practical experience.

## FIN 987 Special Topic in Finance

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with ACCY987

**Subject Description:** This subject provides an opportunity for students to study a topic of interest within the theory and application of finance. The program of study comprises a combination of coursework and/or research with subject objectives and assessment approved by the Head of Discipline.

## FIN 993 Research Essay

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In this subject, students are required to undertake research into a topic of their choice, subject to approval by the Head of Discipline. The topic is completed under the supervision of an individual member of staff and culminates in the production of a research essay.

## FIN 994 Project

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with an opportunity to extend and synthesise knowledge from their study of finance into a major research study, subject to approval by the Head of Discipline. The subject is particularly designed to enable students to develop their research potential.

## FIN 995 Research Project

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with an opportunity to extend and synthesise knowledge from their study of finance into a significant research study, subject to approval by the Head of Discipline. The subject is particularly designed to enable students to significantly develop their research potential.

## FIN 996 Thesis

*Not on offer in 2007*

**Credit Points:** 48

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is the major component of a research Masters and consists of substantial and extended research into an applied or theoretical issue in finance. The topic is selected in line with the student's research interests and is subject to approval by the Head of Discipline. The thesis is completed under the supervision of an individual member of staff and culminates in the production of a substantial written thesis.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<b>MARK901 Internet Applications for Marketing</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The issues facing buyers and sellers online will be applied to marketing subject areas like relationships, community and customer information systems as well as the basic 4P's of marketing. The focus will be at a people and process level to get an understanding of what happens in organisations. Internet applications are reviewed from the perspective of value that electronic networks and data processing can bring to areas of marketing practice. The underlying theme across all areas is how value is added to create overall customer satisfaction in the different areas of marketing practice.
Commerce	<b>MARK917 Business to Business Marketing</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will give students an appreciation of the differences between organisational and consumer customers. Organisation buying practices are different from the processes of consumers and as a result marketing strategy and operations have distinctly different imperatives. With a much higher level of rationality in decision making, there is a far greater focus on product management and innovation as a source of competitive advantage. There is also a far greater focus on logistics and distribution functions as reliability of supply is a key need of customers, particularly when product delivery has to interface directly with customer operations. The central role of personal selling in the promotional mix is also dealt with in depth as it is critically important in generating sales and maintaining relationships with customers.
Creative Arts	<b>MARK920 Social Marketing</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Unlike commercial marketing which seeks to simply change purchasing patterns, social marketing seeks to change strongly ingrained behaviour or firmly held beliefs in a manner that benefits individuals and society at large. Examples of social marketing include campaigns to reduce or prevent smoking, alcohol consumption, drug use, domestic violence and unsafe driving. This subject examines how to design a step-by-step program that will move the target audience from indifference to action and ultimately maintenance. This is achieved by applying marketing techniques and concepts to the solution of various social problems. This subject will use a case-study approach to teaching the key concepts and skills of social marketing, drawing on current and historic Australian and international campaigns.
Education	<b>MARK922 Marketing Management</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: WBS904
Engineering	
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**Subject Description:** This is the introductory postgraduate Marketing subject. It examines the contemporary view of marketing and focuses on the following areas: identification of market opportunities, segmentation and target marketing, marketing mix decisions, service marketing and international marketing.

### MARK935 Marketing Strategy

Spring Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** With the use of case studies, this subject will examine the development and implementation of marketing plans and strategies at the organisational level. Key issues may include: marketing's strategic role in the organisation, marketing strategy and competitive advantage, including marketing mix strategies, marketing strategy formulation, implementation and control.

### MARK936 Consumer Behaviour

Autumn Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** The subject will explore the motives of consumers during the purchase of products and services. It will investigate sociological and psychological concepts as they specifically apply to the behaviour of consumers in order to learn how to make more effective marketing decisions. In addition to a required text that will be used to understand the theory, readings and case studies will be assigned for practical application of the concepts.

### MARK938 Managing Services and Relationship Marketing

Spring Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** The aim of the subject is to introduce the graduate student to a theoretical and practical perspective of the service industry, its marketing implications, and managing buyer-seller relationships. The subject is intended for students who are interested in how to cope with service competition in a customer-oriented manner. The subject will not only deal with issues relating to managing customers in service firms, but is equally intended for manufacturers of physical goods operating in business-to-business or consumer markets because the importance of service to success is constantly growing for such firms. Because services and relationships are interrelated, the subject will deal with customer relationship management and relationship marketing as well as services management.

### MARK940 Marketing Communications

Autumn Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** This subject will provide both a theoretical and a practical perspective on Marketing Communications and Promotion Strategy. Students will learn to use communication tools such



as advertising, sales promotion, point-of-purchase materials, sponsorship programs and publicity, to optimise intervention on organisational issues.

### **MARK954 Special Topic in Marketing A**

Spring Wollongong On Campus  
Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A special topic selected from any area of marketing. The selection would be made by the Head of the Discipline, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

### **MARK956 Creating and Marketing New Products**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject approaches the management of new products from the perspective of the Marketing function. Taking an holistic view of new product development and introduction, it covers the organisation and management of processes across the product life cycle with an emphasis on the role that Marketing plays in these. The key elements here are: identifying opportunities and generating new product concepts, obtaining customer inputs throughout the product cycle, developing an effective product innovation strategy, the test marketing of new products, developing marketing strategies (including pricing) for new products, and managing new product launches.

### **MARK957 International Marketing Strategy**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will present various concepts and tools for analysing international marketing strategies, and evaluating the marketplace (competitors, external environment: cultural, economic, technological, political/legal, marketing opportunities, etc.) Specifically, the focus will be on developing, evaluating and implementing international marketing strategy at the corporate, regional and local levels. By learning the theory and practice, the student will obtain a good conceptual understanding of the field of international marketing as well as become firmly grounded in the realities of the global marketplace.

### **MARK959 Sales Management**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This course involves organising and planning the company's overall personal selling efforts and integrating these efforts with the other elements of the firm's marketing strategy. It also includes the selecting of appropriate sales personnel and designing and implementing policies and procedures that will direct their efforts towards the firm's desired objectives. The

final part of the course involves developing procedures for monitoring and evaluating sales force performance so that adjustments can be made to either the sales program or its implementation when performance is unsatisfactory.

### **MARK970 Contemporary Issues in Marketing**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This course will focus on advanced topics in marketing and strategic issues relating to marketing. Emphasis will be placed on reviewing contemporary readings in the academic and professional literature, together with a focus on practical issues affecting marketing.

### **MARK977 Research For Marketing Decisions**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject focuses on the role & practice of marketing research in marketing. Marketing research can be defined as the systematic collection, analysis and interpretation of data about market-related and other consumer behaviour, using research methods derived from the behavioural & social sciences. Marketing research is an important means through which all types of organisations can obtain reliable and valid information about their markets, customers or clients in order to inform their marketing-related decisions. This subject will provide an overview of marketing research as an applied practice and will emphasize the practical aspects of doing research to meet client needs. It will cover the marketing research process beginning with client consultation and research design, as well as data collection, data analysis and report preparation.

### **MARK989 Marketing Special topic**

Summer 2006/Autumn 2007 Wollongong On Campus  
Spring Wollongong On Campus  
Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A program of coursework and reading as prescribed by the Head of School. This subject is normally available only to MCom(Honours) students.

### **MARK990 Minor Thesis**

Spring Wollongong On Campus  
Autumn Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

### **MARK991 Major Thesis**

Annual Wollongong On Campus

**Credit Points:** 48

**Pre-requisites:** None

**Co-requisites:** None

### **MARK995 Tourism Marketing**

Spring Wollongong On Campus

**Credit Points:** 6

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Arts	<p><b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject introduces, discusses and analyses issues unique to the marketing of tourism products. The focus of this subject is the application of marketing principles and theory in the development of strategic marketing plans for tourism products. The application of strategic tourism marketing planning to the destination, accommodation and tour operator sectors of the tourism industry at the regional, national and international level are critically analysed. In addition, the subject identifies and discusses contemporary issues in tourism marketing including the impact of e-commerce, database marketing and environmental based tourism.</p>	<p>culture, leadership, decisionmaking, power, politics and ethics. There will be an emphasis on case study analysis and skill development exercises.</p>
Commerce		
Creative Arts	<p><b>MARK997 Retail Marketing Management</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject will include a background to retailing, the scope of retailing, retailing strategies, merchandise and store management. Particular emphasis will be placed on case analysis in order to bring as much of the real world as possible into the classroom.</p>	<p><b>MGMT915 Management of Change</b>  Spring Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject analyses how managers can conceptualise and lead the process of organisational change. Issues under discussion will be: organisational change theories and models; forces for change; resistance to change; coping with change; recognising, diagnosing, planning and implementing change; organisational development; contingency approaches to change; and aspects of cultural change management.</p>
Education		
Engineering	<p><b>MGMT908 Human Resources Development</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject provides an advanced perspective on the use of Human Resource Development (HRD) in enhancing the competitive advantage of organisations, by building up the intellectual and learning system capacities of the organisation to cope with a rapid change, customer focused environment. The concept of the Learning Organisation will be developed through the perspective of the HRD policies and actions required to develop and change organisations through their human capital and capabilities.</p>	<p><b>MGMT920 Organisational Analysis</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject provides students with an understanding of the main theoretical theoretical frameworks and conceptual tools used to analyse organisations. The subject approaches organisational analysis using four perspectives: bureaucratic, contingency, political, and cultural. Emphasis is placed on understanding the basis in theory and metaphorical roots of each perspective, as the foundation for using a multiple perspectives approach to identify the key dynamics of organisations.</p>
Graduate School of Business		
Health & Behavioural Sciences	<p><b>MGMT910 Strategic Management</b>  Spring Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject introduces students to theories, concepts and practical issues associated with the strategic management. Topics examined include strategy formulation, choice and implementation; strategy and structure and the organisational context; industry analysis; strategy and competitive advantage.</p>	<p><b>MGMT930 Strategic Human Resource Management</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject examines strategic management concepts and frameworks, and explores the links between strategic management and human resource management. A number of models of strategic HRM are considered, in terms of their theoretical foundations and practical utility. The overall focus is on using the conceptual and analytical frameworks of strategic HRM to develop and implement effective human resource strategies.</p>
Informatics		
Law	<p><b>MGMT911 Organisational Behaviour</b>  Spring Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject presents and discusses major theories and concepts in organisational behaviour, with a view to using this knowledge to enhance management and leadership skills. The main topics for discussion include: diversity, communication, conflict, motivation, job design, groups, teamwork,</p>	<p><b>MGMT940 Innovation and Entrepreneurship</b>  Spring Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> True Entrepreneurship and Innovation are key to the future economic development in many nations. This subject investigates the Innovation and Entrepreneurial processes, including New Venture Creation (small firms) and Intrapreneurship (established firms). Students will learn how to differentiate between a good idea and a real business opportunity. A key part of this subject is the development of a realistic written business plan for an innovative business opportunity and its presentation via an action learning process utilising teams.</p>
Science		

**MGMT941 Small Business Management I**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** The smaller enterprise is becoming increasingly important to the economic well being of many nations. This subject has both a theoretical and practical focus by giving students an opportunity to develop their awareness and understanding of the key factors in successfully starting, operating and growing a SME. Detailed investigation of realistic SME scenarios as well as the growth area of franchising is undertaken by students.

**MGMT946 Personal Learning: The Reflective Manager***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject covers a range of theories and skills to assist the manager in developing their capacities as a 'reflective' practitioner. Topics include: personality types; interpersonal psychology; perceptions of self and others; risk perception and locus of control; issues of ethics, guilt, shame and responsibility.

**MGMT949 Performance Management***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject examines the area of performance management, which is defined as an ongoing communication process that involves both the performance manager and employee. Key aspects of this process are examined. Topics include: identifying and describing essential job functions and relating them to the mission and goals of the organisation; developing performance standards; giving and receiving feedback about performance; writing and communicating constructive performance evaluations, and planning education and development activities to maintain and improve or build on employee work performance.

**MGMT953 Human Resource Management***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Gives students a critical introduction to broad subject of Human Resource Management (HRM) and to examine in detail some of the specific strategic, theoretical and practical issues. Under the broad rubric of HRM there are a number of competing perspectives, view and voices. This subject will not privilege one model over another. Rather, it will present some of these competing views in a manner that will require individual students to exercise their critical faculties and develop their own, theoretically informed, approach to the practical management of human resources.

**MGMT963 Management of Occupational Health and Safety**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject examines issues associated with the establishment of programs for the effective management of Occupational Health and Safety. Topics include: the regulatory context, OHS management systems, benefit-cost analysis, the impact of work organisation, culture and change on OHS, multidisciplinary perspectives, technical and motivational factors, the role of the specialist, OHS employee involvement, and training and development.

**MGMT969 Job Analysis, Recruitment & Selection**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject examines contemporary issues and theory related to the environment and processes of organisational entry, involving the key phases of job analysis, recruitment, selection and socialisation. Traditional recruitment strategies are assessed from the perspective of the organisation and the individual in light of contemporary theoretical developments. A range of personnel selection techniques is examined in relation to issues of reliability, validity, fairness and applicability. In addition, there will be a focus on major challenges faced in these processes in the light of rapidly changing technologies and globalisation. Organisational entry processes will be critically evaluated in the context of differing cultural expectations and practices. A range of practical skills in recruitment and selection processes will also be developed.

**MGMT975 Negotiation Advocacy and Bargaining***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

Exclusions: Not to count with ECON975

**Subject Description:** The subject develops concepts and techniques for the choice and evaluation of strategies and tactics in collective bargaining and advocacy. Much of the subject will involve case studies and role playing.

**MGMT978 Cross Cultural Management**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** The subject addresses key issues and problems associated with managing across cultural boundaries in a context of increasing global contact. Topics include: cross cultural communication, technology, comparative management practices, managing with multicultural policies, and the challenges cultural differences pose for international/global managers.

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Arts	<b>MGMT983 Leading Organisations: Politics, Power and Change Agency</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides students with the ability to reflect upon and improve their capacity to act effectively as an innovator and change agent. It introduces students to the nature of power and politics in organisations, how this dimension of organisational life impacts upon individual careers and organisational success, commonly recommended approaches and techniques for managing politics, and the personal and ethical issues involved in either participating in or abstaining from politics. The subject reviews current management research on organisational politics and change management, and provides checklists, case studies, guidelines and exercises for improving the students practical knowledge and experience.
Commerce	
Creative Arts	
Education	<b>MGMT986 Special Topics A</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Approved program of study agreed with the Head of the Department of Management
Engineering	<b>MGMT987 Management Special Topic</b> Spring Wollongong On Campus Autumn Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Approved program of study agreed with the Head of Discipline for Management
Graduate School of Business	<b>MGMT990 Minor Thesis</b> Annual Wollongong On Campus <b>Credit Points:</b> 24 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Approved program of study agreed with the Head of the Department of Management or Course Director.
Health & Behavioural Sciences	<b>MGMT991 Major Thesis</b> Annual Wollongong On Campus <b>Credit Points:</b> 48 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Approved program of study agreed with the Head of Discipline for Management Course Director.
Informatics	
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# Faculty of Creative Arts

## Member Units

School of Art and Design

- Visual Arts
- Graphic Design and New Media

School of Journalism and Creative Writing

- Journalism
- Creative Writing

School of Music and Drama

- Performance (Music and Theatre)
- Sound – Composition and Production

## Courses Offered

### Research

Doctor of Philosophy

Doctor of Creative Arts

Master of Arts – Research

Master of Arts – Research (Journalism)

Master of Creative Arts – Research

### Coursework

Master of Creative Arts

Master of Journalism

Information about academic staff profiles, exhibitions, performances, Artists in Residence and other research and postgraduate matters is available on the Faculty of Creative Arts website at: [www.uow.edu.au/crearts](http://www.uow.edu.au/crearts)

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).

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# Doctor of Philosophy

Arts	Testamur Title of Degree:	Doctor of Philosophy
	Abbreviation:	PhD
	Home Faculty:	Faculty of Creative Arts
	Duration:	3 years full-time or part-time equivalent
Commerce	Total Credit Points:	48 per annum
	Delivery Mode:	Supervised individual research/creative project
	Starting Session(s):	Autumn or Spring
	Location:	Wollongong
	UOW Course Code:	201
Creative Arts	CRICOS Code:	028401G

## Overview

The Doctor of Philosophy is for those individuals with a track record of high-level professional experience who wish to extend their practice within a scholarly context.

The Doctor of Philosophy is based on submission of a thesis in a scholarly field or a combination of scholarly thesis and creative work presentation. The course is intended for scholars or artist-scholars who have a solid academic and/or artistic background and who wish to develop either or both fields to a doctoral level. Such candidates may not yet have had substantial artistic experience, but should demonstrate high levels of promise and an appropriate standard of preparation.

It may be possible for individuals with appropriate expertise to undertake studies that involve more than one discipline area. Interested applicants should contact the Faculty's Professional Officer.

## Entry Requirements / Assumed Knowledge

Applicants should have an Honours Bachelor degree of at least four years duration in an appropriate discipline at Class II, Division 1 or higher or equivalent qualifications. Applicants wishing to submit a combination of thesis and creative work should demonstrate that both their academic and artistic backgrounds equate with the above minimum standard. In certain circumstances students may be required to commence their enrolment in the Master of Arts – Research and seek transfer to the Doctor of Philosophy (PhD) when they achieve a suitable standard.

It is important that applicants submit adequate material to demonstrate the quality and standing of their work.

## Course Requirements

Students enrol in THES924 Thesis (full-time) or THES912 Thesis (part-time).

Submission will be in the form of:

- scholarly thesis (100%); or
- scholarly thesis (50%) combined with creative work (50%).

The thesis will be in the range of 60,000 to 90,000 words, with an equivalent workload where submission is by thesis and creative work. The exact nature of each submission will vary according to the students' educational and professional background and will be negotiated in consultation with the supervisor(s) and the Head of Postgraduate Studies. Examples of creative work submission include a folio of compositions or writing, exhibitions of artwork and musical or dramatic performances. As a guide, the scale of the submission of creative work would normally not constitute significantly less than for the Doctor of Creative Arts. Assessment is by two external assessors.

## Major Study Areas

School of Art and Design

Graphic Design and New Media

- Graphic Design
- Web Design
- Interactive Multimedia
- Digital Imaging
- Graphic Design and New Media Theory
- Photography

Visual Arts

- 2D and 3D Studio Practice [printmaking, textiles, painting and sculpture]

- Indigenous Arts
- Curatorial Theory and Practise
- Art History and Archaeology of Europe

School of Journalism and Creative Writing

Creative Writing

- Poetry
- Prose Fiction
- Script Writing (Film, Television, Theatre)

School of Music and Drama

Music

- Composition
- Performance
- Digital and New Musics
- Audio/Visual, Screen Composition and Intermedia
- New Interfaces for Musical Expression
- Tuning Systems

Theatre

- Performance
- Production
- Dramaturgy and Performance Studies
- Direction

## Doctor of Philosophy (Journalism)

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Faculty of Creative Arts
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	48 per annum
Delivery Mode:	Supervised individual research
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	201
CRICOS Code:	028401G

### Overview

The Doctor of Philosophy (Journalism) is for individuals with a track record of high level professional practice who wish to extend their work within a scholarly context.

It is based on submission of a thesis in a scholarly field and is intended for professional journalists interested in researching news media industry practice, new communication technology or organisational structure.

### Entry Requirements / Assumed Knowledge

Applicants should have a relevant first degree with Honours Class II, Division 1 or higher, or a Masters program either in Journalism or in a related area, or possess equivalent or professional qualifications. Graduates in other disciplines at Masters level may also be considered if they can provide evidence of professional practice and research interests in specialist areas relevant to journalism theory and practice.

Applicants must submit a one page statement detailing their research history and a comprehensive proposal of between 2,500 words maximum. Applicants will be assessed on the relevance of the proposal to the research interests of the program in journalism. Other topics will be considered against the research expertise available in the Faculty. Applicants applying on the basis of professional media experience must include work samples and verification of employment from their employer(s). Guidelines for submitting the research proposal are at: [www.uow.edu.au/crearts/PG/ProposalGuidelines.html](http://www.uow.edu.au/crearts/PG/ProposalGuidelines.html)

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In certain circumstances students may be required to commence their enrolment in the Master of Arts – Research (Journalism) and seek transfer to the Doctor of Philosophy (PhD) when they achieve a suitable standard.

## Course Requirements

Students enrol in THES924 Thesis (full-time) or THES912 Thesis (part-time).

This subject requires the submission of a scholarly thesis in the range of 80,000 to 100,000 words. The exact nature of each submission will vary according to the student's educational and professional background and will be negotiated in consultation with the supervisor(s) and the Head of Postgraduate Studies. Assessment is by two external examiners.

### Major Study Areas

- Community Journalism
- Journalism and New Communication Technologies
- Comparative Media Systems
- Documentary Journalism
- Journalism Training and Education
- Journalism in Multicultural Contexts
- Media in Developing Countries
- Broadcast and Cinema Documentary Film
- Interactive Digital Media
- Political Journalism
- Journalism Ethics
- Investigative Journalism
- Journalism and Disability

## Doctor of Creative Arts

Testamur Title of Degree:	Doctor of Creative Arts
Abbreviation:	DCA
Home Faculty:	Faculty of Creative Arts
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	48 per annum
Delivery Mode:	Supervised individual research/creative project
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	202
CRICOS Code:	001248A

### Overview

The Doctor of Creative Arts is for those individuals with a track record of high level professional experience, who wish to extend their practice within a scholarly context.

The Doctor of Creative Arts is based on presentation of creative work and supported by written documentation of the context and theories underpinning the work. Assessment is by two external examiners.

It may be possible for individuals with appropriate expertise to undertake studies which involve more than one discipline area. Interested applicants should contact the Faculty's Professional Officer.

### Entry Requirements / Assumed Knowledge

Applicants must possess an Honours Bachelor degree of at least four years duration in an appropriate discipline at Class II, Division 1 or higher (or its equivalent) and be able to demonstrate evidence of high artistic attainment. Examples of high artistic attainment include publication or professional dissemination of work; grants, fellowships and prizes; critical acclaim; a track record of sustained high level professional activity; and various indicators relevant to the specific discipline.

As a guide, students completing the MCA will need to achieve at or near a high distinction in the two coursework subjects and a satisfactory pass in the major presentation to be considered for entry to the DCA. Likewise, students who have completed coursework Masters programs at other universities should be aware that such qualifications might not be regarded as adequate preparation for immediate entry to the DCA program.



In certain circumstances, students may be required to commence their enrolment in the Master of Arts – Research or Master of Creative Arts – Research, and seek transfer to the DCA, when and if they achieve the required standard.

Outstanding arts practitioners without the required formal qualifications may be allowed to enrol in the DCA provided they can demonstrate a sustained period of artistic activity at the highest level.

It is important that applicants submit adequate material to demonstrate the quality and standing of their work.

## Course Requirements

Students enrol in THES924 Thesis (full-time) or THES912 Thesis (part-time).

The submission for the DCA will normally be by exhibition, performance or publication of creative work in the area of major, supported by written documentation (approximately 20,000 to 30,000 words) focusing on aspects such as origins of the work, structures and techniques used, and artistic theories underpinning the work. It may be appropriate to support written material with documentation in other forms, for example, photographs or sound and video recordings. In all cases, the dissertation is intended to be an integrated part of the full submission and, wherever possible, to argue the case for the merit and originality of the creative work. The Faculty is keen that the dissertation should be a vital and engaging document. It therefore permits some flexibility in the style of its submission. Nonetheless, the dissertation should be presented in a well-researched form that demonstrates an understanding of scholarly method.

In all cases, the submission should demonstrate originality and high levels of artistry and specialist skill. The work should be of a publishable standard, should show an engagement with artistic and intellectual ideas and have a strong artistic and academic focus. The exact nature of each student's program will be finalised in consultation with the supervisor(s) and the Head of Postgraduate Studies.

Students presenting their work by exhibition or performance are required to present their dissertation for examination no later than three months after the final performance or exhibition. Students presenting their work by folio or similar means should present their dissertation and folio in one submission. Assessment is by two external examiners who normally assess all parts of the submission.

The following is intended as a guide to the scale and style of creative work submission:

**Creative Writing:** Substantial folio of creative writing which may take the form of a large-scale project such as a novel (75,000 words), poetry collection (80 pages) or play script (90 minutes duration), or a combination of smaller pieces.

**Graphic Design and New Media:** Graphic design portfolio/exhibition and/or website/CD-Rom.

**Music Composition:** Folio of up to 10 compositions and several works that employ large resources or performance media.

**Performance – Music:** A minimum of three performances of approximately 60 minutes in duration, demonstrating high levels of artistry, technical proficiency and focus. Such performances would normally include two or more of the following: a solo performance; an extended work as a featured artist in a group/ensemble context; a performance with electronic media and/or a lecture/performance. Performances at DCA level should take place within a recognised professional context.

**Performance – Theatre:** Direction or facilitation of a production of not less than 90 minutes duration; significant dramaturgical analysis and portfolio of a full-length theatrical performance; performance in a leading role demonstrating high levels of technical assurance and artistry; or technical facilitation, design and execution of a full length theatre performance.

**Visual Arts:** Major solo exhibition of artwork plus documented preliminary exhibitions.

### Major Study Areas

Refer to listing under Doctor of Philosophy entry.

## Master of Arts - Research

Testamur Title of Degree:	Master of Arts – Research
Abbreviation:	MA-R
Home Faculty:	Faculty of Creative Arts
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Supervised individual research/creative project
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1301
CRICOS Code:	042539F

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## Overview

The Master of Arts – Research is a course for high-level practitioners who wish to extend their practice within a scholarly context.

The Master of Arts – Research consists of one 24 credit point coursework subject and a thesis in a scholarly field (or a combination of thesis and original creative work). In some cases, it may be possible to transfer to a doctoral program (DCA or PhD) after a suitable period of study (normally at least the equivalent of nine months of full-time enrolment).

It may be possible for individuals with appropriate expertise to undertake studies which involve more than one discipline area. Interested applicants should contact the Faculty's Professional Officer.

## Entry Requirements / Advanced Standing

Applicants with an Honours Bachelor degree in an appropriate discipline at Class II, Division 1 or higher, or its equivalent, may be granted advanced standing for CREA921 (Research Topics in Creative Arts) and be admitted directly into the Thesis subject.

Applicants without appropriate qualifications may be admitted to the course by undertaking CREA921 (Research Topics in Creative Arts) and, on successful completion at credit level or better, may be permitted to proceed into the Thesis.

## Course Requirements

Students are required to complete 72 credit points of 900 level subjects consisting of one 24 credit point coursework subject plus a 48 credit point thesis. As a guide, submission by thesis only will be in the range of 40,000 to 50,000 words, with an equivalent workload where submission is by thesis (20,000 to 25,000 words) and creative work.

Examples of creative work submission include a folio of compositions or writing, exhibition of artwork and musical or dramatic performances. As a guide, the submission of creative work would normally not constitute less than the expectations in the subjects MUS913, MUS914, THEA913, VISA913, DESN913 or WRIT913 as applicable. The exact nature of each submission will vary according to the student's educational and professional background and will be negotiated in consultation with the Head of Postgraduate Studies. A brief explanatory annotation may be submitted to support the creative work submission.

Assessment for the MA-R is by two external assessors.

## Course Program

Subjects	Session	Credit Points
CREA921      Research Topics in Creative Arts	Autumn or Spring	24
and		
THES924 or      Thesis full-time	Autumn and/or Spring	24
THES912      Thesis part-time	Autumn and/or Spring	12

## Major Study Areas

Refer to listing under Doctor of Philosophy entry.

## Master of Arts - Research (Journalism)

Testamur Title of Degree:	Master of Arts – Research
Abbreviation:	MA-R
Home Faculty:	Faculty of Creative Arts
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Supervised individual research (face-to-face coursework may be required depending on entry level)
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1301
CRICOS Code:	042553G

## Overview

The Master of Arts – Research (Journalism) is suitable for professional journalists keen on acquiring a tertiary qualification or researching news media industry practice, new communication technology or organisational structure.

## Entry Requirements / Assumed Knowledge

Applicants with an Honours Bachelor degree in an appropriate discipline at Class II, Division 1 or higher, or equivalent qualifications, may be granted advanced standing and admitted directly into the Thesis.

Applicants without appropriate qualifications may be admitted to the course by undertaking JOUR992 (Research Topics in Journalism) and, on satisfactory completion may be permitted to proceed directly into the Thesis.

In some cases it may be possible to transfer to a PhD after a suitable period of study (normally at least the equivalent of nine months of full-time enrolment).

Applicants must submit a one-page statement detailing their research history and a proposal of 2,000 words. Applicants will be assessed on the relevance of the proposal to the research interests of the program in journalism. Other topics will be considered against the research expertise available in the Faculty.

Applicants applying on the basis of professional media experience must include work samples and verification of employment from their employer(s). Guidelines for submitting the research proposal are at: [www.uow.edu.au/crearts/PG/ProposalGuidelines.html](http://www.uow.edu.au/crearts/PG/ProposalGuidelines.html)

## Advanced Standing

Applicants with an Honours Bachelor degree in an appropriate discipline at Class II, Division 1 or higher, or equivalent qualifications, may be granted advanced standing and admitted directly into the Thesis.

## Course Requirements

The Master of Arts – Research (Journalism) course requires completion of JOUR992 (Research Topics in Journalism) and the submission of a scholarly thesis of approximately 50,000 words. Assessment is by two external assessors.

## Course Program

Subjects		Session	Credit Points
JOUR992	Research Topics in Journalism	Spring	24
or			
ARTS901	Master of Arts Research Methods	Autumn	24
and			
THES924 or	Thesis full time	Autumn and/or	24
THES912	Thesis part time	Spring	12
		Autumn and/or	
		Spring	

## Major Study Areas

See listing under Doctor of Philosophy (Journalism).

## Master of Creative Arts - Research

Testamur Title of Degree:	Master of Creative Arts – Research
Abbreviation:	MCA-R
Home Faculty:	Faculty of Creative Arts
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Supervised individual research/creative project (face-to-face coursework may be required depending on entry level)
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1302
CRICOS Code:	044409M

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## Overview

The Master of Creative Arts – Research is a course for high level creative arts practitioners who wish to extend their practice within a scholarly context and whose work is at a standard beyond that required for the Pass Masters (MCA) but who do not possess the requirements for entry to the Doctoral program. It normally consists of two 12 credit point coursework subjects plus a major presentation. In some cases, it may be possible to transfer to the Doctor of Creative Arts after a suitable period of study (normally at least the equivalent of nine months of full-time enrolment).

It may be possible for individuals with appropriate expertise to undertake studies that involve more than one discipline area. Interested applicants should contact the Faculty's Professional Officer.

## Entry Requirements / Assumed Knowledge

Applicants should hold an appropriate Bachelor degree with Honours Class II, Division 1, or higher (or its equivalent) and be able to demonstrate evidence of strong artistic attainment/potential. Examples of artistic attainment and potential include publication or professional dissemination of work; grants, fellowships and prizes; high-level professional activity; and various indicators relevant to the specific discipline.

## Advanced Standing

Applicants who have completed other relevant qualifications deemed to be equivalent may be granted advanced standing for one or both of the 12 credit point coursework subjects.

## Course Requirements

Students are required to complete 72 credit points of 900- level subjects consisting of two 12 credit point coursework subjects plus a 48 credit point major creative presentation.

The submission of creative work will normally be by exhibition, performance or presentation in the area of the major, supported by written documentation (approximately 5,000 words) focusing on aspects such as origins of the work, structures and techniques used, and artistic theories underpinning the work.

The following is intended as a guide to the scale and style of creative work submission.

**Creative Writing:** Substantial folio of creative writing which may take the form of a large-scale project such as a novel (50,000 words), poetry collection (64 pages) or script (75 minutes duration), or a combination of smaller pieces.

**Graphic Design and New Media:** Graphic design portfolio/exhibition and/or website/CD-Rom. As an example of content, designers would submit 10 to 15 graphic design works. Web designers would submit a major interactive web site or at least three smaller sites on the net. Multimedia designers would submit a substantial interactive CD-Rom that demonstrates an innovative and professional design approach. All students must submit design roughs and supporting material for exhibition.

**Music Composition:** Folio of compositions including up to five compositions and at least one work that employs large resources or performance media.

**Performance – Music:** Two performances of approximately 60 minutes in duration, demonstrating high levels of artistry, technical proficiency and focus. Such performances would normally be chosen from a solo performance; a performance as a featured artist in a group context; a performance with electronic media and/or a lecture/performance.

**Performance – Theatre:** Demonstration of proficiency of technical assurance and artistry in one of the following: directing, performance management (facilitation of the rehearsal room and/or technical production for theatre, opera, dance, gallery), dramaturgy or performance in a production of 45 to 60 minutes duration.

**Visual Arts:** Major solo exhibition of artwork plus documented preliminary exhibitions. As an example of content, painters should submit at least eight to 12 major pieces, plus drawings and supporting material of exhibition standard. Equivalent amounts of work will be expected of students working in other areas of the visual arts.

Assessment for the MCA-R is by two external assessors.

## Course Program

### Subjects

THES924	Thesis full-time
THES912	Thesis part-time

### Session

Autumn and/or Spring
Autumn and/or Spring

### Credit Points

24
12

Plus coursework subjects in area of specialisation:

### Creative Writing

WRIT910	Analysis of Texts
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Autumn
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12
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WRIT911	Literary Composition	Spring	12
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#### Graphic Design and New Media

DESN910	Graphic Design and New Media Theory	Autumn	12
DESN911	Studies in Process and Analysis: Graphic Design and New Media	Spring	12

#### Music Performance

MUS910	Music Analysis	Autumn	12
MUS912	Studies in Performance Technique	Spring	12

#### Music Composition

MUS910	Music Analysis	Autumn	12
MUS915	Studies in Composition Technique	Spring	12

#### Theatre

THEA910	Theatre Analysis	Autumn	12
THEA911	Advanced Techniques in Theatre	Spring	12

#### Visual Arts

VISA910	Visual Arts Theory	Autumn	12
VISA911	Studies in Process and Analysis: Visual Arts	Spring	12

#### Major Study Areas

Refer to listing under Doctor of Philosophy entry.

## Master of Creative Arts

Testamur Title of Degree:	Master of Creative Arts
Abbreviation:	MCA
Home Faculty:	Faculty of Creative Arts
Duration:	1 year full-time or 1.5 to 2 years part-time
Total Credit Points:	48
Delivery Mode:	Mostly face-to-face plus supervised creative work
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	564
CRICOS Code:	000290G

### Overview

The Master of Creative Arts (MCA) is an intensive course focusing on the attainment of high level practical skills. It normally consists of two coursework subjects plus a major presentation.

Each student is allocated a supervisor/s responsible for the major presentation who advises on development of the creative work and its documentation.

It may be possible for individuals with appropriate expertise to undertake studies which involve more than one discipline area. Interested applicants should contact the Faculty's Professional Officer.

### Entry Requirements / Assumed Knowledge

Normally applicants should hold a Bachelor degree from a recognised institution in an appropriate area of study. Students without adequate formal qualifications may be required to complete up to 48 credit points of additional study, incorporating relevant subjects; 48 credit points is the maximum number that can be completed in an academic year. Applicants should have professional experience in their chosen area of study.

### Course Requirements

Students are required to complete 48 credit points of 900 level subjects consisting of two 12 credit point coursework subjects plus a 24 credit point major presentation. The following is intended as a guide for the major presentation:

DESN913 Major Presentation – Graphic Design and New Media:

As an example of content, graphic designers would submit 10 graphic design works; interactive designers would produce a major interactive web site or multimedia piece, or several smaller sites or multimedia works.

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Arts	MUS913 Major Presentation – Music Performance: A 50-minute performance for acoustic, amplified or electronic instruments or voice, given in the final session of a students' full-time enrolment (or equivalent) is required. The program should be approved by the supervisor(s) by the end of the first session of enrolment. A second 20–30 minute performance of a substantial nature is also required. The work (which may in the case of longer works – be a movement section) should be chosen in consultation with the supervisor(s).																																																																													
Commerce	MUS914 Major Presentation – Music Composition: Submission of a portfolio of at least four compositions, including one major work for large resources or performance media; sketches, recordings and other supporting material; and analytical commentaries on the works submitted of approximately 2,000 words is also required.																																																																													
Creative Arts	THEA913 Major Presentation – Theatre: The major presentation is the planning and implementation of a practical demonstration of the student's work. Students will give a public presentation accompanied by a 2000 word analysis of the process undertaken with appropriate annotation and commentary. The parameters of the presentation must be negotiated with the supervisor(s). VISA913 Major Presentation – Visual Arts: As an example of content, painters should submit at least eight major pieces, plus drawings and supporting material of exhibition standard. Equivalent amounts of work will be expected of students working in other areas of the visual arts.																																																																													
Education	WRIT913 Major Presentation – Creative Writing: Students will present either a work of short prose fiction (25,000 words); or collection of poetry (48 pages); or a (60-minute) theatre/film/television script. All students must submit a detailed outline of their proposed work for the major presentation to the supervisor(s) by the fourth week of enrolment. A cross-disciplinary approach may be possible. Assessment will be by two internal assessors and students will be awarded a 'satisfactory' or 'unsatisfactory' grade for the major presentation.																																																																													
Engineering	<h2>Course Program</h2> <table><tr><th>Subjects</th><th>Session</th><th>Credit Points</th></tr><tr><td colspan="3"><b>Creative Writing</b></td></tr><tr><td>WRIT910      Analysis of Texts</td><td>Autumn</td><td>12</td></tr><tr><td>WRIT911      Literary Composition</td><td>Spring</td><td>12</td></tr><tr><td>WRIT913      Major Presentation – Creative Writing</td><td>Annual</td><td>24</td></tr><tr><td colspan="3"><b>Graphic Design and New Media</b></td></tr><tr><td>DESN910      Graphic Design and New Media Theory</td><td>Autumn</td><td>12</td></tr><tr><td>DESN911      Studies in Process and Analysis: Graphic Design and New Media</td><td>Spring</td><td>12</td></tr><tr><td>DESN913      Major Presentation – Graphic Design and New Media</td><td>Annual</td><td>24</td></tr><tr><td colspan="3"><b>Music Performance</b></td></tr><tr><td>MUS910      Music Analysis</td><td>Autumn</td><td>12</td></tr><tr><td>MUS912      Studies in Performance Technique</td><td>Spring</td><td>12</td></tr><tr><td>MUS913      Major Presentation – Music Performance</td><td>Annual</td><td>24</td></tr><tr><td colspan="3"><b>Music Composition</b></td></tr><tr><td>MUS910      Music Analysis</td><td>Autumn</td><td>12</td></tr><tr><td>MUS915      Studies in Composition Technique</td><td>Spring</td><td>12</td></tr><tr><td>MUS914      Major Presentation – Music Composition</td><td>Annual</td><td>24</td></tr><tr><td colspan="3"><b>Theatre</b></td></tr><tr><td>THEA910      Theatre Analysis</td><td>Autumn</td><td>12</td></tr><tr><td>THEA911      Advanced Techniques in Theatre</td><td>Spring</td><td>12</td></tr><tr><td>THEA913      Major Presentation – Theatre</td><td>Annual</td><td>24</td></tr><tr><td colspan="3"><b>Visual Arts</b></td></tr><tr><td>VISA910      Visual Arts Theory</td><td>Autumn</td><td>12</td></tr><tr><td>VISA911      Studies in Process and Analysis: Visual Arts</td><td>Spring</td><td>12</td></tr><tr><td>VISA913      Major Presentation – Visual Arts</td><td>Annual</td><td>24</td></tr></table>			Subjects	Session	Credit Points	<b>Creative Writing</b>			WRIT910      Analysis of Texts	Autumn	12	WRIT911      Literary Composition	Spring	12	WRIT913      Major Presentation – Creative Writing	Annual	24	<b>Graphic Design and New Media</b>			DESN910      Graphic Design and New Media Theory	Autumn	12	DESN911      Studies in Process and Analysis: Graphic Design and New Media	Spring	12	DESN913      Major Presentation – Graphic Design and New Media	Annual	24	<b>Music Performance</b>			MUS910      Music Analysis	Autumn	12	MUS912      Studies in Performance Technique	Spring	12	MUS913      Major Presentation – Music Performance	Annual	24	<b>Music Composition</b>			MUS910      Music Analysis	Autumn	12	MUS915      Studies in Composition Technique	Spring	12	MUS914      Major Presentation – Music Composition	Annual	24	<b>Theatre</b>			THEA910      Theatre Analysis	Autumn	12	THEA911      Advanced Techniques in Theatre	Spring	12	THEA913      Major Presentation – Theatre	Annual	24	<b>Visual Arts</b>			VISA910      Visual Arts Theory	Autumn	12	VISA911      Studies in Process and Analysis: Visual Arts	Spring	12	VISA913      Major Presentation – Visual Arts	Annual	24
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# Master of Journalism

Testamur Title of Degree:	Master of Journalism
Abbreviation:	MJ
Home Faculty:	Faculty of Creative Arts
Duration:	1 year full time or part time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus, Distance Mode and Off Shore
Starting Session(s):	On Campus – Autumn Distance Mode – Autumn Off Shore – Autumn
Location:	Wollongong, Distance
UOW Course Code:	573, FP573, DE573
CRICOS Code:	026812E

## Overview

The Master of Journalism is a practical coursework program, designed to provide critical educational and vocational training in journalism. It assists students in adapting to structural and technological change and promotes critical evaluation of professional journalism processes through its teaching and research.

The educational foundation for the course is built on practical skills – orientated towards the philosophical, ethical, and critical aspects of the news media in the context of comparative journalistic realities.

The Graduate Program in Journalism, is offered through the School of Journalism and Creative Writing.

## Entry Requirements / Assumed Knowledge

A Bachelor degree (any discipline) or equivalent from a recognised institution, with a credit average or higher. Qualified journalists are eligible for consideration on the basis of documented evidence of at least two years full-time experience.

Applicants with an undergraduate degree must provide certified academic transcripts and curriculum vitae (CV) outlining work history and/or academic study. Applicants with experience in journalism or a media related industry must provide details of employment history (CV).

Applicants must provide an 800 – word opinion article (refer to application form). If applying on basis of industry experience, samples of work published in the print or electronic media are required, as well as letter(s) from employer(s) to verify details of employment.

All applicants must be able to provide documented proof of English language proficiency. The University of Wollongong's English Language Requirements are outlined at [www.uow.edu.au/prospective/international/english/index.html](http://www.uow.edu.au/prospective/international/english/index.html)

## Advanced Standing

Advanced standing may be granted for a particular subject(s) on the basis of previous education, training or professional experience. A letter requesting advanced standing must be accompanied by verified copies of documents or other evidence to substantiate the request. Evidence may include academic transcripts, samples of published work, letters from employers verifying experience and length of service.

## Course Requirements

The program of study for the Master of Journalism must total 48 credit points. The four core subjects JOUR901, JOUR902, JOUR903 and JOUR933 must be completed successfully before commencing the requisite 24 credit points of elective subjects unless the Program Co-ordinator determines otherwise. Exemption from core subjects may be granted by the Co-ordinator on the basis of documented professional experience.

With the approval of the Co-ordinator, students may take a maximum of three subjects from other postgraduate and undergraduate courses where it can be shown that this will assist in the development of specialist skills in journalism. Students may also complete a major project approved by the Co-ordinator, or an internship in a professional media organisation, or such field work as the Program Co-ordinator may prescribe.

Students using on-line WebCTVista will need to have access to a computer with a cross-platform capability and have a web browser and Acrobat Reader installed.

All students will be required to use email. Off-campus students may receive either printed hard copy or digital CD Rom based materials for subjects (on offer), and in some cases video materials will be provided.

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Students will need to discuss their proposed program with an academic adviser from the Graduate Program prior to enrolment.

## Course Program

Subjects	Session	Credit Points
Compulsory		
JOUR901 News & Feature Writing	Autumn: Wollongong, Distance	6
JOUR902 Journalistic Method & Practice	Autumn: Wollongong, Distance	6
JOUR903 Ethics, Law & Standards	Autumn: Wollongong, Distance	6
JOUR933 On Line & Research Journalism	Autumn: Wollongong, Distance	6
Electives		
JOUR931 Broadcasting Journalism	Spring: Wollongong, Distance	6
JOUR932 Television Journalism	Spring: Wollongong, Distance	6
JOUR934 Print Production & Publication	Spring: Wollongong, Distance	6
JOUR936 International Journalism	Spring: Wollongong, Distance	6
JOUR942 Current Affairs Journalism *	Spring: Wollongong, Distance	6
JOUR943 Directed Readings in Journalism	Spring: Wollongong, Distance	6
JOUR945 Advanced Journalism Project	Spring: Wollongong, Distance	6
JOUR949 Multicultural Journalism	Spring: Wollongong, Distance	6
JOUR991 Major Journalism Project	Spring: Wollongong, Distance	12

\*On campus only.

Note: Not all subjects are offered each session.



## SUBJECT DESCRIPTIONS

### CREA921 Research Topics in Creative Arts

Annual Wollongong On Campus  
Spring2007/Autumn2008 Wollongong On Campus  
Autumn Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students enrolled in the Master of Arts - Research degree with training in the theories and research methodologies current in their chosen discipline areas. This training involves three modules of study: 1. a specific theory and methods module; 2. an advanced content-based module in the student's discipline area; and 3. a module in which the student writes a detailed research proposal for the Master of Arts - Research thesis. The precise content of these modules will be determined on a case-by-case basis, with the student and the supervisor. It will be approved by the Head of Postgraduate Studies.

### DESN910 Graphic Design and New Media Theory

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject explores key aspects of contemporary graphic design and new media practice and theory in both national and transnational contexts. It allows students to develop their own research within specific theoretical frameworks and with knowledge of historical design movements. It overviews production processes and technical concerns of emerging technologies at both an individual and an industrial level. Guest designers and industry representatives will lead discussion on relevant design issues.

### DESN911 Studies in Process and Analysis - Graphic Design and New Media

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject overviews production processes and technical concerns of Graphic Design and New Media. Students will produce an individual portfolio through the development of design concepts and an understanding of industry models. The subject emphasises an analysis of the processes and experimentation involved in producing a creative design work in a sustained thematic and cohesive way, and places it in a professional context. Students are required to document all design processes using an electronic, web based process journal, which includes images, notation and project management details. Students will be expected to work independently and at an advanced level and consult with their Subject Co-ordinator at specified benchmark times in the development of their work.

### DESN913 Major Presentation - Graphic Design and New Media

Annual Wollongong On Campus  
Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will develop a substantial portfolio presentation that demonstrates original thinking, knowledge of the design area, and technical and production abilities that are required to produce a major piece of design work in a sustained thematic and cohesive way. As an example of content, graphic designers would submit 10 graphic design works; interactive designers would produce a major interactive web site or multimedia piece, or several smaller sites or multimedia works. A detailed outline of the proposed creative project must be submitted within the first 6 weeks of the program. A cross-disciplinary approach may be possible.

### DESN921 Creative Industries: Design for Interactive Multimedia

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with DESN129.

**Subject Description:** This subject provides an introduction to design fundamentals and the values of visual design to interactive multimedia production. Students will explore formal composition principals, application of type and image, and approaches to digital layout. Within a framework of weekly lectures and tutorials, students will be required to undertake research and develop design concepts and solutions to set project briefs.

### JOUR901 News and Feature Writing

Autumn Wollongong On Campus

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This foundation subject develops basic skills in straight news reporting to extended feature writing for newspapers and magazines. Attention will be given to subjective aspects of news and feature writing, including the use of comment and opinion; colour stories; the contribution of 'new journalism' to writing human interest stories; interviewing and information gathering techniques; and the application of conventional news values to reporting.

### JOUR902 Journalistic Method & Practice

Autumn Wollongong Distance

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject considers the basic attributes of news, the nature of news construction, theories of news making and the structure of news narratives. It takes students through the process of initiating to the completion of a news assignment. Practical areas of discussion are: the structure and

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Arts	conventions of a news round, use of recording devices, interview techniques, working with photographers and camera teams, packaging of news copy, news construction, follow-ups and news management.			<b>JOUR903 Ethics, Law and Standards</b> Autumn Wollongong On Campus Autumn Wollongong Distance <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject examines the legal and ethical framework which governs the work of journalists. It considers the nature, efficacy and administration of ethical codes relevant to journalism, particularly the Media Entertainment and Arts Alliance (MEAA) Code of Ethics and the Australian Press Council's Statement of Principles. Other aspects of professional conduct and professional standards considered include guarding against defamation actions; libel laws; breach of privacy; confidentiality; protection of sources; standards of accuracy, fairness and subjectivity in journalism.	<b>JOUR934 Print Production and Publication</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject focuses on the production of inhouse newsletters and magazines by a combination of conventional techniques and desktop publishing. Topics include copy preparation and editing, principles of typography, news layout, news illustration, production planning and desktop publishing applications.
Commerce				<b>JOUR936 International Journalism</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This seminar-based subject focuses on international news flow in the context of the New World Information Order debates in the early 70s and news flow in the context of Internet communication; culture, values and ideology in international news production (discussions derived mainly from Australian reporting of Asia); media systems in selected Asia-Pacific countries; and renewed interest in community development oriented journalism.	<b>JOUR942 Current Affairs Journalism</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides practical instruction in the preparation of current affairs programs in radio, television and multi-media. A simulated producer journalist environment will provide opportunities for specialisation in one of the three media areas. Unless a student has prior experience, Current Affairs Journalism is to be elected at the same time as either Television Journalism or Broadcast (Radio) Journalism. Students will be able to develop a current affairs project that is informed and designed from within Television Journalism or Broadcast (Radio) Journalism and then develop the project within the Current Affairs subject. This provides the opportunity for a 12 credit point context, thus adequate time to develop a current affairs piece that involves time consuming production, writing and editing.
Creative Arts				<b>JOUR931 Broadcasting Journalism</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides advanced skills in script writing, editing, producing and presenting radio news and current affairs programs. The course has a strong practical component. NOTE: This subject provides the foundation for Current Affairs Journalism JOUR942.	<b>JOUR943 Directed Readings in Journalism</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject enables students to extend their knowledge of the theory and practice of journalism by directed reading courses in selected topics. Topics available include: structure of the Australian news media; news media management in the cyberage; comparative media systems and practices; qualitative studies of individual journalists and their work; and textual analysis. On the advice of an academic adviser, students have the option of nominating their own topic.
Education				<b>JOUR932 Television Journalism</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides advanced skills in script writing, editing, producing and presenting television news and current affairs programs. A primary emphasis will be placed on techniques for gathering television news or documentary materials in the field. NOTE: This subject provides the foundation for Current Affairs Journalism JOUR942.	<b>JOUR945 Advanced Journalism Project</b> Spring Wollongong On Campus <b>Credit Points:</b> 6
Engineering				<b>JOUR933 On-Line and Research Journalism</b> Autumn Wollongong On Campus Autumn Wollongong Distance <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is designed to develop a range of research and journalism investigative methods. It will include the use of online data bases, the Internet, library and archive work and other sources of public information. The use of survey material in journalism will be studied, particularly the presentation of this data in a news format. The organisation of news investigation teams, the techniques that they use, and what they produce will be analysed. Part of the subject will be devoted to news design and presentation on the World Wide Web.	
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**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** This subject provides a shorter alternative project for final session students not wanting to undertake the major project, or electing to do additional course work, or wanting to develop vocational skills acquired in previous subjects. Project areas available include: news design and presentation on the World Wide Web; print media production; electronic news gathering and production; multimedia production or a short film or radio piece in the documentary and current affairs mode. Alternatively students wanting to cover broader aspects of news gathering and presentation can do so, in the following areas: environment; science and technology; public affairs; arts; lifestyle and leisure; economics and business; religion; and sports. Concepts and skills can focus on print production or the electronic journalistic genre.

#### JOUR949 Multicultural Journalism

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides an historical, cultural and social background for students wanting to work in Australia's growing multicultural media. It will give practical instruction in multicultural print, electronic and multi-media news applications. Particular emphasis is placed on differences between news production and presentation in multicultural media and traditional media.

#### JOUR991 Major Journalism Project

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is designed to give students the opportunity to undertake either a major research project or substantial supervised practical work. In particular, it allows students to complete an internship with a media organisation. Such placement should generally have a minimum duration of six weeks. Students on internship are required to submit detailed records of their work experience, supported by verification from the media organisation, and an internship report of 3,000 words. Research projects should be linked directly to subject areas represented in the journalism schedule, and may include an essay of 10,000 words, visual, sound or multi-media components.

#### JOUR992 Research Topics in Journalism

Autumn Wollongong On Campus  
 Annual Wollongong On Campus  
 Spring Wollongong On Campus  
 Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will provide students enrolled in the Master of Arts - Research (Journalism) degree with training in the theories and research methodologies current in their chosen discipline areas. This training involves three modules of study: (1). a specific theory and methods module. 5,000 - 7,000 words, possibly one short and one long essay. Seminar participation if determined will be assessed (2).

an advanced content-based module in the students discipline area requiring the completion of the contents of an existing subject and (3). a module in which the student writes a detailed research proposal for the thesis covering: - an annotated bibliography 40% - the development of thesis question and rationale for chapter divisions, involving exposition of thesis argument 40% and - an oral presentation of the thesis proposal 20% The precise content of these modules will be determined on a case by case basis, with the student and the supervisor. It will be approved by the Program Coordinator.

#### MUS 910 Music Analysis

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will undertake research-based analysis that addresses specific aspects of their musical practice in performance and/or composition. The study may draw on material such as historical survey, critical commentary, verbal history, archival and other material relevant to the particular areas of theoretical and creative interest.

#### MUS 912 Studies in Performance Technique

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will undertake research into aspects of performance technique on their chosen instrument, and present the outcomes of this research at a performance seminar.

#### MUS 913 Major Presentation - Music Performance

Annual Wollongong On Campus  
 Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A 50-minute performance for acoustic, amplified or electronic instruments, or voice, given in the final session of a student's full-time enrolment (or equivalent), is required. The program should be approved by the supervisor(s) by the end of the first session of enrolment. A second 20-30 minute performance of a substantial nature is also required. The work (which may, in the case of longer works, be a movement or section) should be chosen in consultation with the supervisor(s). Detailed annotations for both performances of approximately 2,000 words, must be provided four weeks in advance of performance dates. Students must submit a detailed outline of their proposed work for the Major Presentation to the supervisor(s) by the fourth week of enrolment. A cross disciplinary approach may be possible.

#### MUS 914 Major Presentation - Music Composition

Annual Wollongong On Campus  
 Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Submission of the following

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Arts	is required: 1. A portfolio of at least four compositions, including one major work for large resources or performance media. 2. Sketches, recordings and other supporting material. 3. Analytical commentaries on the works submitted of approximately 2,000 words. The submission is due in the final session of a student's full-time enrolment (or equivalent). Students must submit a detailed outline of their proposed work for the Major Presentation to the supervisor(s) by the fourth week of enrolment. A cross-disciplinary approach may be possible.
Commerce	
Creative Arts	<b>MUS 915 Studies in Composition Technique</b> Spring Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Students will participate in composition seminars and workshops as necessary. They are required to maintain regular contact with their supervisor/s as the portfolio develops. The portfolio may be based on the student's research interests.
Education	<b>THEA910 Theatre Analysis</b> Autumn Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Students will undertake research based analysis which may include the survey of historical and archival material, verbal history, critical commentary or the investigation of contemporary performance/production methodologies. This analysis should address a particular aspect of the dramaturgy. All work must be submitted by the last teaching week of session.
Engineering	
Graduate School of Business	<b>THEA911 Advanced Techniques in Theatre</b> Spring Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Students will prepare a written exegesis of their creative work. This subject is designed to facilitate the development of clear research objectives and appropriate methodologies, as well as a critical understanding of the literature relevant to the field of practice. All work must be submitted by the last teaching week of session.
Health & Behavioural Sciences	
Informatics	<b>THEA913 Major Presentation - Theatre</b> Annual Wollongong On Campus Spring2007/Autumn2008 Wollongong On Campus <b>Credit Points:</b> 24 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The Major Presentation is the planning and implementation of a practical demonstration of the student's work. Students will give a public presentation accompanied by a 2,000 word analysis of the process undertaken with appropriate annotation and commentary. The parameters of the Presentation must be negotiated with the supervisor/s. Students must submit a detailed outline of their proposed work for the Major Presentation to the supervisor/s by the fourth week of enrolment. A cross disciplinary approach may be possible.
Law	
Science	

<b>VISA910 Visual Arts Theory</b> Autumn Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject explores contemporary arts practice and theory in both national and transnational contexts. With an emphasis on placing the self within a specific culture and history, the subject encourages the development of individual research strengths. It refers to historical art and craft movements through current theoretical frameworks. Both textual and visual research strategies are emphasised in presentation and writing.
<b>VISA911 Studies in Process and Analysis - Visual Arts</b> Spring Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject overviews production processes and technical concerns of art in contemporary practice. It emphasises an analysis of the processes, experimentation, materiality and content of visual work by individual artists, and the presentation and installation of artwork in relation to emerging technologies. Each student will document the research processes in the making of his or her creative work in a visual journal. Students will be expected to work at an advanced level and with a high degree of independence in their chosen studio discipline.
<b>VISA913 Major Presentation - Visual Arts</b> Annual Wollongong On Campus Spring2007/Autumn2008 Wollongong On Campus <b>Credit Points:</b> 24 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Students will present a substantial exhibition of work that reflects technical skill, knowledge and use of materials, and an ability to develop, sustain and execute original ideas in a cohesive and thematic way. Preparation of the Major Presentation should occupy students for at least four hours per day for the period of enrolment. As an example of content, painters should submit at least eight major pieces plus drawings and supporting material of exhibition standard. Equivalent amounts of work will be expected of students working in other areas of the visual arts. Students must submit a detailed outline of their proposed work for the Major Presentation to the supervisor/s by the fourth week of enrolment. A cross-disciplinary approach may be possible.
<b>WRIT910 Analysis of Texts</b> Autumn Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> In fortnightly seminars students will undertake a detailed study of relevant texts in their area of specialisation, in poetry, prose fiction or script writing. The subject aims to develop and refine the ability to trace in detail the relationship between the effects gained by a text and the techniques of writing used to achieve them.

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**WRIT911 Literary Composition**

Spring Wollongong On Campus

**Credit Points:** 12**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** In fortnightly seminars students will be required to develop and refine their awareness of the techniques and processes of literary composition and to demonstrate their control of these through the composition of a major piece of writing in a mode outside of their usual practice. Students will be required to discuss the effects they are seeking in their writing and to describe and evaluate the techniques they have employed to achieve those effects.

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**WRIT913 Major Presentation  
- Creative Writing**

Annual Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 24**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Students will present either a work of prose fiction (minimum 25,000 words); or a collection of poetry (48 pages); or a 60 minute theatre/film/television script. Students must submit a detailed outline of their proposed work for the major presentation to their supervisor/s by the fourth week of enrolment. A cross-disciplinary approach may be possible.

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# Faculty of Education

## Research Units

Centre for Educational Leadership  
 Centre for Research in Language and Literacy (CRILL)  
 Childhood Obesity Research Centre (CORe)  
 Learning and the Learner (LNL)  
 Quality Teaching and Educational Leadership (QUALTEL)  
 Centre for Interdisciplinary Youth Research (CIYR)  
 Centre for Research into Interactive Learning Environments (RILE)  
 Educational Media Lab  
 Digital Media Centre

## Courses Offered

### Research Degrees

Doctor of Philosophy  
 Doctor of Education  
 Master of Arts – Research  
 Master of Education – Research  
 Master of Science Education – Research

### Coursework Degrees

Master of Arts  
 Master of Education  
 Master of Physical and Health Education  
 Graduate Diploma in Adult Education  
 Graduate Diploma in Vocational Education and Training  
 Graduate Diploma in Higher Education  
 Graduate Diploma in Education  
 Graduate Diploma in TESOL  
 Graduate Certificate in Adult Education  
 Graduate Certificate in Computer Based Learning  
 Graduate Certificate in Educational Leadership  
 Graduate Certificate in Gifted Education  
 Graduate Certificate in Higher Education  
 Graduate Certificate in Literacy  
 Graduate Certificate in Outdoor Education  
 Graduate Certificate in Physical and Health Education  
 Graduate Certificate in Special Education  
 Graduate Certificate in TESOL  
 Graduate Certificate in Vocational Education and Training

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/)

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## Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Education
Duration:	3 years full-time or equivalent
Total Credit Points:	144
Starting Session(s):	Autumn, Spring
UOW Course Code:	201
CRICOS Code:	001246C

### Overview

The Doctor of Philosophy provides the opportunity to pursue in-depth research in a range of areas. The Research Groups associated with the Faculty of Education include the Centre for Research into Interactive Learning Environments (RILE), the Centre for Research into Language and Literacy (CRILL), Learning and the Learner (LNL), Childhood Obesity Research Centre (CORE), Quality Teaching and Educational Leadership (QUALTEL) and the Centre for Interdisciplinary Youth Research (CIYR). Postgraduate research students are encouraged to undertake postgraduate study associated with the research agendas of these Centres. In addition, supervision is also available in a number of areas of strength, based on the postgraduate teaching program.

### Entry Requirements

Entry to this degree is available to candidates who meet the University entry requirements for Doctor of Philosophy (PhD) candidature. In the first instance this requires the completion of a Bachelors degree with Honours Class II or higher in an appropriate area, or an equivalent qualification with an appropriate research component.

### Course Requirements

Candidates for this degree enrol in a Doctoral Thesis (THES912/924). They may also be asked to audit or enrol in research preparation subjects (e.g. EDGZ922, EDGZ924). Interested candidates should contact the Associate Dean (Research) to discuss their area of research and supervision. All new students enrolling in a research degree are expected to prepare and defend a research proposal early in their candidature and to become involved in activities such as student colloquia. See subject descriptions for further information.

## Doctor of Education

Testamur Title of Degree:	Doctor of Education
Abbreviation:	EdD
Home Faculty:	Education
Duration:	3 years full-time or equivalent
Total Credit Points:	144
Delivery Mode:	Flexible
Starting Session(s):	Autumn, Spring
Location:	Wollongong
UOW Course Code:	205
CRICOS Code:	016127J

### Overview

The Doctorate of Education (EdD) is a program to prepare professional leaders in Education. It is a doctoral level program completed by a combination of coursework and thesis, offered in 2007 in the areas of:

- Adult Education/Vocational Education and Training/Higher Education
- Educational Leadership
- Information Technology in Education and Training
- Literacy Education
- Physical and Health Education
- Special Education (including Gifted Education)



- Teaching English to Speakers of Other Languages (TESOL, including TEFL)

## Entry Requirements

Entry to this degree is available to candidates who:

1. meet the University entry requirements for Doctoral candidature. Normally this would be an appropriate Masters degree, completed at credit (65%) level or better or the completion of a Bachelors degree with Honours Class II or higher in an appropriate area, or an equivalent qualification, and
2. have completed a minimum of three years of relevant professional experience.

## Advanced Standing

Advanced standing of up to 12 credit points may be granted for previous graduate study at MEd level.

## Course Requirements

1. The program for the degree will require successful completion of:
  - i) 48 credit points of subjects including:
    - a) at least 24 credit points selected from subjects in the Faculty's graduate schedule, which will provide specific preparation for the thesis component of the degree;
    - b) EDGZ922 Conducting Research and Inquiry;
    - c) 6 credit points by further research preparation through selection of subjects from EDGZ950-960; EDGI955, EDGZ965 or equivalent with agreement of the Associate Dean (Research);
    - d) EDGZ924 Research Proposal, to be successfully completed before commencement of the thesis component;
  - ii) And a supervised thesis (THES912/924), to be examined externally. This thesis will contribute to two thirds of the total assessment for this award.
2. Each candidate will be required to select a program of study in consultation with their supervisor(s) and the Associate Dean (Research) to ensure that subjects chosen do not duplicate previous graduate work and form a coherent pattern of study.

Candidates will be required to pass all coursework subjects at the first attempt. The coursework component of the program must be completed with an average grade at not less than Credit (65%) level. Students who do not meet this requirement will have their doctoral candidature terminated.

## Course Program

Subjects		Credit Points
THES912/924		96
Plus subjects chosen from the lists below totalling 24 cp		
<b>Adult Education /Vocational Education &amp; Training/Higher Education</b>		
EDGH951	Global Issues and Trends in Adult Education/Higher Education and VET	8
EDGH952	Learning about Learning in Adult Education/Higher Education and VET	8
EDGH953	Design and Use of New Technologies in Adult Education/Higher Education and VET	8
EDGH954	Leading and Managing in Adult Education/Higher Education and VET	8
EDGH955	Continuing Professional Development in Adult Education/Higher Education and VET	8
EDGH956	Innovation in Adult Education/Higher Education and VET	8
EDGH957	Multiliteracies and Numeracies in Adult Education/Higher Education and VET	8
<b>Educational Leadership</b>		
EDGL901	Foundations of Educational Leadership*	6
EDGL903	Introduction to Educational Management*	6
EDGL909	Leadership of Effective Change	6
EDGL911	Leadership of Curriculum and Instruction	6
EDGL915	Information Systems and Educational Leadership	6
EDGL917	Leadership in Quality Learning and Teaching	6
EDGL919	Mentoring Beginning Teachers	6

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	EDGL922	Law for Educational Leaders	6
	* Compulsory subjects for students wishing to complete a major study in Educational Leadership		
Commerce	<b>Information Technology in Education &amp; Training</b>		
	EDGI911	Information Technology in Education and Training*	6
	EDGI912	Project for EDGI911	2
Creative Arts	EDGI913	Instructional Strategies and Authoring*	6
	EDGI914	Project for EDGI913	2
	EDGI915	Network-Based Learning	6
Education	EDGI916	Project for EDGI915	2
	EDGI917	Instructional Design	6
	EDGI918	Project for EDGI917	2
Engineering	EDGI931	Interactive Multimedia Design	6
	EDGI932	Project for EDGI931	2
	EDGI933	Implementation and Evaluation of Technology-Based Learning	6
Graduate School of Business	EDGI934	Project for EDGI933	2
	EDGI951	Visual and Interface Design	6
	EDGI952	Project for EDGI951	2
Health & Behavioural Sciences	EDGI955	Research in Learning Environments	6
	EDGI956	Project for EDGI955	2
	EDGI957	Digital Learning Systems Design	6
Informatics	EDGI958	Project for EDGI957	2
	* Compulsory subjects for students wishing to complete a major in Information Technology in Education and Training.		
	<b>Literacy</b>		
Law	EDGR911	Teaching Reading*	8
	EDGR912	Teaching Writing*	8
	EDGH957	Multiliteracies and Numeracies in Adult Education/VET/Higher Education	8
Science	EDGA971	Assessment and evaluation of language and literacy	8
	EDGA987	Children's literature	8
	*Compulsory subjects for students wishing to complete a major in Literacy.		
Special Education	Recommended elective subjects include:		
	EDGS918	Approaches to Reading Difficulties: Theories and Strategies	6
	EDGL901	Foundations of Educational Leadership	6
Special Education	EDGT976	Text and Context	6
	<b>Physical &amp; Health Education</b>		
	EDGP910	Theory and Practice of Outdoor Education	6
Special Education	EDGP911	Project for EDGP910	2
	EDGP912	Facilitation Techniques in Outdoor Education	6
	EDGP913	Project for EDGP912	2
Special Education	EDGP924	Young People and Health	6
	EDGP930	Theoretical and Practical Bases of Coach Education	6
	EDGP931	Project for EDGP930	2
Special Education	EDGP934	Cultural politics of sport, leisure and physical education	6
	EDGP935	Leadership and Management in Physical Education, Sport and Recreation	6
	EDGP990	Practicum in a Learning Environment	6
Special Education	EDGP991	Project for EDGP990	2
	<b>Special Education</b>		
	EDGS910	Learning Theories and Exceptionality*	6
	EDGS911	Project in Exceptional Education Practices	2

EDGS912	Contemporary Perspectives in the Education of Children with Diverse Needs	6
EDGS913	Project in Contemporary Perspectives	2
EDGS914	Assessment and Instruction of Individuals with Moderate to Severe Needs	6
EDGS915	Programs for Individuals with Moderate to Severe Needs	2
EDGS916	Models of Behaviour Management	6
EDGS917	Programming for Behaviour Management	2
EDGS918	Approaches to Reading Difficulties:Theories and Strategies	6
EDGS919	Reading Difficulties: Program Design and Implementation	2
EDGS920	Language and Communication Difficulties:Theory and Practice	6
EDGS921	Language-Related Learning Difficulties:A Case Study	2
EDGS922	Teaching Gifted Children	6
EDGS923	Project in Gifted Education	2
EDGS924	Giftedness in Special Populations	6
EDGS925	Project in Dual Exceptionality	2
*Compulsory subject for major in Special Education		
Recommended elective subjects include:		
EDGL909	Leadership of Effective Change	8
EDGA917	International and Intercultural Perspectives	8
EDGL901	Foundations of Educational Leadership	6
<b>Teaching English to Speakers of Other Languages (TESOL)</b>		
EDGT917	English Language: Learners Problems	6
EDGT931	Teaching Speaking and Listening	6
EDGT932	Second Language Literacy	6
EDGT934	Teaching Pronunciation and Prosody	6
EDGT935	Teaching English in International Contexts	6
EDGT936	Management, Policy and Curriculum in TESOL	6
EDGT940	Materials and Technology in Second Language Teaching	6
EDGT976	Text and Context	6
EDGT983	Assessment in TESOL	6
EDGT984	Theories of Second Language Learning *	6
EDGT985	English in Specific Contexts	6
* Compulsory subject for major in TESOL		
Recommended elective subjects include:		
EDGL909	Leadership of Effective Change	6
EDGA917	International and Intercultural Perspectives	8
<b>Research Methodology &amp; Project Subjects (as required)</b>		
EDGZ903	Minor Project in Education	8
EDGZ912	Special Research Topic	8
EDGZ925	Advanced Seminar	8
EDGZ926	Professional Project	12
EDGZ922	Conducting Research and Inquiry*	6
EDGZ924	Research Proposal*	6
EDGZ951	Poststructuralist/Postmodernist Research	2
EDGZ952	Interviews As Research Method	2
EDGZ953	Correlation Research	2
EDGZ954	Evaluation Research	2
EDGZ955	Developing Grounded Theory In Qualitative Research	2
EDGZ956	Research Methods In Language Education	2
EDGZ957	Feminist Research	2
EDGZ958	Discourse Analysis	2

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Arts	EDGZ959	Questionnaire Construction	2
	EDGZ960	Case Study Research	2
	EDGZ965	Vygotskian Studies in Education	4
	★ Compulsory subjects in EdD		
Commerce	<h2>Master of Arts - Research</h2>		
Creative Arts	Testamur Title of Degree:	Master of Arts - Research	
	Abbreviation:	MA-Research	
	Home Faculty:	Education	
	Duration:	1.5 years full-time equivalent	
Education	Total Credit Points:	72	
	Delivery Mode:	Flexible	
	Starting Session(s):	Autumn/Spring	
	Location:	Wollongong	
Engineering	UOW Course Code:	1301	
	CRICOS Code:	042938B	
	<h2>Overview</h2>		
	The Master of Arts – Research is a specialised research Degree for students who are not professionally qualified educators but who wish to pursue research careers in education.		
Graduate School of Business	<h2>Entry Requirements</h2>		
	Entry is available to candidates with a Bachelors Honours degree; a Masters degree by coursework; a Bachelors degree by coursework (or equivalent) where a Distinction average has been maintained; a Bachelors degree by coursework including additional research experience deemed appropriate by the Faculty of Education.		
	<h2>Course Requirements</h2>		
	The degree program will comprise up to 72 credit points of study, chosen as follows: <ul style="list-style-type: none"><li>– research methodology subjects as required, chosen in consultation with supervisors;</li><li>– research proposal (EDGZ924); and</li><li>– a thesis embodying the results of an investigation to the value of 48 credit points (THES912/924).</li></ul>		
Health & Behavioural Sciences	<h2>Course Program</h2>		
	<h3>Subjects</h3>		<h3>Credit Points</h3>
	EDGZ921	Introduction to Research and Inquiry★	6
	EDGZ922	Conducting Research and Inquiry★	6
Informatics	EDGZ924	Research Proposal	6
	THES912/924	Research Thesis	48
	★As required depending on prior research training and experience.		
	<b>Plus 6 credit points chosen from the following Research Methodology subjects:</b>		
Law	EDGZ951	Poststructuralist/Postmodernist Research	2
	EDGZ952	Interviews As Research Method	2
	EDGZ953	Correlation Research	2
	EDGZ954	Evaluation Research	2
Science	EDGZ955	Developing Grounded Theory In Qualitative Research	2
	EDGZ956	Research Methods In Language Education	2
	EDGZ957	Feminist Research	2
	EDGZ958	Discourse Analysis	2
	EDGZ959	Questionnaire Construction	2
	EDGZ960	Case Study Research	2

EDGZ965	Vygotskian Studies in Education	4
EDGI955	Research in Learning Environments	6

## Master of Education - Research

Testamur Title of Degree:	Master of Education - Research
Abbreviation:	MEd-Research
Home Faculty:	Education
Duration:	1.5 years full-time or equivalent
Total Credit Points:	72
Delivery Mode:	Flexible
Starting Session(s):	Autumn, Spring
Location:	Wollongong
UOW Course Code:	1306, D1306
CRICOS Code:	042629D

### Overview

The Master of Education - Research is a specialised research degree for students who either wish to pursue research careers in education or whose future career will require them to interpret and apply the findings of educational research. This degree is intended for students who are professionally qualified educators.

### Entry Requirements

Entry is available to candidates with a Bachelors Honours degree with a major in Education; a Masters degree by coursework in Education; a Bachelors degree by coursework majoring in Education (or equivalent) where a Distinction average has been maintained; a Bachelors (degree) by coursework majoring in Education including additional research experience deemed appropriate by the Faculty of Education.

### Course Requirements

- The degree program shall involve:
  - research methods subjects chosen in consultation with supervisor;
  - a research proposal (EDGZ924); and
  - a thesis embodying the results of an investigation to the value of 48 credit points (THES912/924).
- A candidate may not include in this degree program any subject which the candidate has previously taken and had credited towards a qualification accepted for admission under Section 1 of these requirements.

### Course Program

Subjects		Credit Points
EDGZ921	Introduction to Research and Inquiry	6
EDGZ922	Conducting Research and Inquiry	6
EDGZ924	Research Proposal	6
THES912/924	Research Thesis	48
Plus 6 credit points chosen from the following Research Methodology subjects:		
EDGZ951	Poststructuralist/Postmodernist Research	2
EDGZ952	Interviews As Research Method	2
EDGZ953	Correlation Research	2
EDGZ954	Evaluation Research	2
EDGZ955	Developing Grounded Theory In Qualitative Research	2
EDGZ956	Research Methods In Language Education	2
EDGZ957	Feminist Research	2
EDGZ958	Discourse Analysis	2
EDGZ959	Questionnaire Construction	2

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Informatics
Law
Science

EDGZ960	Case Study Research	2
EDGZ965	Vygotskian Studies in Education	4
EDGI955	Research in Learning Environments	6

## Master of Science Education -Research

Testamur Title of Degree:	Master of Science Education – Research
Abbreviation:	MScEd-Research
Home Faculty:	Education
Duration:	4 years part time or 2 years full-time
Total Credit Points:	72
Delivery Mode:	Flexible
Starting Session(s):	Autumn, Spring
Location:	Wollongong
UOW Course Code:	1337
CRICOS Code:	N/A

### Overview

This course meets professional learning needs for Science teachers in NSW and is accessible by flexible mode. It may also be appropriate for other teachers or international students with suitable qualifications and experience. It is research-based to deal with contemporary issues associated with Science education and practices.

The course is delivered through a mixture of on-line and intensive on-campus workshops. However, if students prefer, they can attend on campus and be part of the full-time research culture of the university.

### Entry Requirements

Entry is available to candidates with a Bachelors degree in Science with a distinction average plus an appropriate teaching qualification, or a Bachelors degree and appropriate teaching qualification, altogether with additional research experience deemed appropriate (or equivalent).

### Course Requirements

- The degree program shall involve:
  - EDGZ922 Conducting Research & Inquiry (6 credit points)  
(Pre requisite will be an Introduction to Research in an undergraduate degree OR EDGZ921 Introduction to Research & Inquiry)
  - EDGZ924 Research Proposal: (6 credit points), online with at least one compulsory meeting with the supervisors.
  - 12 credit points at 900-level chosen in consultation with course co-ordinator.
- Full-time students complete 24 credit points of coursework in one session (all subjects are currently available in both sessions) and then have 12 months to complete their thesis.
- Part time students follow the same schedule as full-time students but can extend their enrolment over 3 or 4 years.
- Mid-year enrolments can be accepted for full-time and part-time students.

### Course Program

#### Core Subjects

##### Faculty of Education

		Credit Points
EDGZ922	Conducting Research & Inquiry	6
(Pre requisite will be an Introduction to Research in an undergraduate degree OR EDGZ921 Introduction to Research & Inquiry)		

EDGZ924	Research Proposal (online with at least one compulsory meeting with the supervisors)	6
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##### Elective Subjects

12 credit points at 900-level to be chosen from the following:

##### Faculty of Science

##### Credit Points

EESC950	Advanced Topic A	12
ENVI919	Directed Studies in Environmental Science A	12
BIOL983	Research Methods in Biotechnology A	12
BIOL992	Literature Review A	12
BIOL993	Research Project A	12
CHEM915	Advanced Chemistry Laboratory Project A	12
CHEM919	Literature Report in Chemistry A	12
OR other subjects approved by the Course Coordinator		12
<b>Faculty of Engineering</b>		<b>Credit Points</b>
PHYS910	Advanced Project in Physics A	6
PHYS947	Special topic in Physics A	6
OR other subjects approved by the Course Coordinator		12
<b>Plus:</b>		
<b>Thesis</b>		
THES912/924	Research Thesis	48

## Master of Arts (Information Technology in Education and Training)

Testamur Title of Degree:	Master of Arts (Information Technology in Education and Training)
Abbreviation:	MA (IT in Ed)
Home Faculty:	Education
Duration:	1 year or part time equivalent
Total Credit Points:	48
Delivery Mode:	On line
Starting Session(s):	Autumn
Location:	Wollongong/Distance
UOW Course Code:	571
	HU571
CRICOS Code:	042531C

### Overview

The Master of Arts specialising in Information Technology in Education and Training is aimed at those who wish to develop information and communication technology application for training and educational contexts. It is a professional development program which introduces the design process for multimedia and discusses issues such as how the Internet and other computer mediated learning can support learning.

Other topics covered in the program include: the design of CD-Rom products, digital media projects, cognition and interface design, using websites and networks for learning and the evaluation of technology-based learning systems. It differs from the MEd program in that no formal educational background is required for entry.

### Entry Requirements

Students should hold a recognised Bachelors degree and have access to a training or educational context in which to undertake course projects.

### Course Requirements

Subjects are chosen from those listed in the Information Technology specialisation listed under the Master of Education Program.

### Course Program

48cp of subjects, chosen from the IT specialisation, in consultation with the specialisation co-ordinator.

	Arts
	Commerce
	Creative Arts
	Education
	Engineering
	Graduate School of Business
	Health & Behavioural Sciences
	Informatics
	Law
	Science

# Master of Education

Testamur Title of Degree:	Master of Education
Abbreviation:	MEd
Home Faculty:	Education
Duration:	1 year full-time or part time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus, Distance
Starting Session(s):	Autumn, Spring
Location:	Wollongong, Distance
UOW Course Code:	576, DE576
CRICOS Code:	000289M

## Overview

The Master of Education is an introductory higher degree for teachers and educators wishing to pursue advanced studies in their area of interest.

## Entry Requirements

The degree is subject to the University's rules for the award of the degree of Master together with the following guidelines:

To qualify for admission as a candidate for the Master of Education, a student must have qualified for a Bachelors degree of the University, or an equivalent qualification from an approved institution, with a major study in Education, eg. BA plus GDipEd, provided that the degree or equivalent qualification has a minimum study duration of four years. Other qualifications or substantial professional experience may be considered as meeting these requirements and should be discussed with the Director – Graduate Teaching. Candidates with a three-year qualification in Education completed at Distinction level may be considered for admission to the MEd program.

Candidates who do not meet this requirement may be considered for admission to an extended (72 credit point) MEd program.

A candidate may not include in this degree program any subject which the candidate has previously taken and had credited towards a qualification accepted for admission under Section 1 of these requirements.

## Course Requirements

- The MEd program will normally comprise 48 credit points of study, chosen as follows.
  - EDGZ921 Introduction to Research and Inquiry (6 credit points) or equivalent; and
  - at least 24 credit points from a single Program (major study). The core of subjects to be covered to complete a major study will vary from Program to Program; and
  - up to 18 credit points of electives chosen from any Program. The amount of choice available will vary from program to program. Students wishing to proceed directly to MEd (Research) or Doctoral programs should include Advanced Research Methodology and project subjects in their Program, chosen in consultation with their Teaching Program coordinator.
- Students should discuss their proposed course of study with the relevant Program Coordinator. Teaching accreditation may depend on subject choice.
- A candidate may be eligible to include a major study area on the final degree testamur (eg MEd majoring in Information Technology or MEd majoring in Special Education). In order to qualify for a major to be recorded on the degree testamur, a candidate must complete at least 30 credit points from the chosen Program area. Joint majors will not be recorded.
- Entry to Doctoral degrees (EdD or PhD) may be available to candidates who meet the University entry requirements for Doctoral candidature. Normally this would be an appropriate Masters degree, completed at credit (65%) level or better.

## Advanced Standing

The Faculty of Education may approve up to 12 credit points of Advanced Standing in the Master of Education to currently enrolled candidates who have completed other accredited professional development courses run by employing bodies. For further information contact the Faculty.

Major study requirements must still be met by the candidate, ie., normally this credit cannot be substituted for a compulsory subject within a program, or form part of a major study within a program. Candidates may claim a maximum of 12 credit points of Advanced Standing on this basis in one program of study.



## Course Program

Subjects			Credit Points
<b>Adult Education/Vocational Education &amp; Training/Higher Education</b>			
EDGH951	Global Issues and Trends in Adult Education/Higher Education and VET	8	
EDGH952	Learning about Learning in Adult Education/Higher Education and VET	8	
EDGH953	Design and Use of New Technologies in Adult Education/Higher Education and VET	8	
EDGH954	Leading and Managing in Adult Education/Higher Education and VET	8	
EDGH955	Continuing Professional Development in Adult Education/Higher Education and VET	8	
EDGH956	Innovation in Adult Education/Higher Education and VET	8	
EDGH957	Multiliteracies and Numeracies in Adult Education/Higher Education and VET	8	
<b>Educational Leadership</b>			
EDGL901	Foundations of Educational Leadership*	6	
EDGL903	Introduction to Educational Management*	6	
EDGL909	Leadership of Effective Change	6	
EDGL911	Leadership of Curriculum and Instruction	6	
EDGL917	Leadership in Quality Learning and Teaching	6	
EDGL919	Mentoring Beginning Teachers	6	
EDGL920	Leading, Developing & Managing People	6	
EDGL922	Law for Educational Leaders	6	
* Compulsory subjects for a major study in Educational Leadership			
As Educational Leadership subjects require the application of research and theoretical insights into actual practice, it is desirable that students have some full-time workplace/teaching experience.			
<b>Information Technology in Education &amp; Training</b>			
EDGI911	Information Technology in Education and Training*	6	
EDGI912	Project for EDGI911	2	
EDGI913	Instructional Strategies and Authoring*	6	
EDGI914	Project for EDGI913	2	
EDGI915	Network-Based Learning	6	
EDGI916	Project for EDGI915	2	
EDGI917	Instructional Design	6	
EDGI918	Project for EDGI917	2	
EDGI931	Interactive Multimedia Design	6	
EDGI932	Project for EDGI931	2	
EDGI933	Implementation and Evaluation of Technology-Based Learning	6	
EDGI934	Project for EDGI933	2	
EDGI951	Visual and Interface Design	6	
EDGI952	Project for EDGI951	2	
EDGI955	Research in Learning Environments	6	
EDGI956	Project in EDGI955	2	
EDGI957	Digital Learning Systems Design	6	
EDGI958	Project for EDGI957	2	
* Compulsory subjects for a major study in Information Technology in Education and Training.			
<b>Literacy</b>			
EDGH957	Multiliteracies and Numeracies in Adult Education/VET/Higher Education	8	
EDGA971	Assessment and Evaluation of Language and Literacy	8	
EDGA987	Children's Literature	8	
EDGR911	Teaching Reading*	8	
EDGR912	Teaching Writing*	8	

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Health & Behavioural Sciences
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Law
Science

Arts	*Compulsory subjects for a major study in Literacy.		
	<b>Special Education</b>		
	EDGS910	Learning Theories and Exceptionality*	6
Commerce	EDGS911	Project in Exceptional Education Practices	2
	EDGS912	Contemporary Perspectives in the Education of Children with Diverse Needs	6
	EDGS913	Project in Contemporary Perspectives	2
Creative Arts	EDGS914	Assessment and Instruction of Individuals with Moderate to Severe Needs	6
	EDGS915	Programs for Individuals with Moderate to Severe Needs	2
	EDGS916	Models of Behaviour Management	6
Education	EDGS917	Programming for Behaviour Management	2
	EDGS918	Approaches to Reading Difficulties: Theories and Strategies	6
	EDGS919	Reading Difficulties: Program Design and Implementation	2
	EDGS920	Language and Communication Difficulties: Theory and Practice	6
	EDGS921	Language-Related Learning Difficulties: A Case Study	2
	EDGS922	Teaching Gifted Children	6
	EDGS923	Project in Gifted Education	2
	EDGS924	Giftedness in Special Populations	6
	EDGS925	Project in Dual Exceptionality	2
Engineering	*Compulsory subject for major in Special Education		
	<b>Teaching English to Speakers of Other Languages (TESOL)</b>		
	EDGT917	English Language: Learners Problems	6
Graduate School of Business	EDGT931	Teaching Speaking and Listening	6
	EDGT932	Second Language Literacy	6
	EDGT934	Teaching Pronunciation and Prosody	6
Health & Behavioural Sciences	EDGT935	Teaching English in International Contexts	6
	EDGT936	Management, Policy and Curriculum in TESOL	6
	EDGT940	Materials and Technology in Second Language Teaching	6
Informatics	EDGT976	Text and Context	6
	EDGT983	Assessment in TESOL	6
	EDGT984	Theories of Second Language Learning *	6
Law	EDGT985	English in Specific Contexts	6
	* Core subject in TESOL MEd program		
	<b>Elective Subjects</b>		
Science	These subjects do not form a major study, but may be available to students from any major area of study as elective subjects to complement the major area of study.		
	EDGA917	International and Intercultural Perspectives	8
	<b>Research Methodology &amp; Project Subjects</b>		
	Subjects in this group do not constitute a separate area of major study, but provide the various methodology and project subjects which are required for completion of the MEd and higher degrees as explained above in the section Patterns of Study.		
	EDGZ903	Minor Project in Education	8
	EDGZ912	Special Research Topic	8
	EDGZ921	Introduction to Research and Inquiry*	6
	EDGZ922	Conducting Research and Inquiry	6
	EDGZ924	Research Proposal	6
	EDGZ925	Advanced Seminar	8
	EDGZ926	Professional Project	12
	EDGZ965	Vygotskian Studies in Education	4
	* Compulsory subject in all MEd programs.		

# Master of Physical and Health Education

Testamur Title of Degree:	Master of Physical and Health Education
Abbreviation:	MPHEd
Home Faculty:	Education
Duration:	1 year full-time or part time equivalent
Total Credit Points:	48
Delivery Mode:	Distance, on campus (Online delivery) –
Starting Session(s):	Autumn or Spring
Location:	Distance, Wollongong
UOW Course Code:	1576
CRICOS Code:	054116G

## Overview

The Master of Physical & Health Education is for practitioners in sport, recreation and physical and health education related fields, to upgrade their qualifications and stay abreast of developments in their fields. The program on offer in 2007 has been reviewed, and the program below replaces the previous program offered in conjunction with Charles Stuart University. Continuing students wishing to discuss their progression in the new program should contact the PE Program co-ordinator.

## Entry Requirements

Students will have a four year undergraduate degree with a recognized teaching credential in Physical and Health Education. Special consideration may be given to students who have, for example, substantial experience in the field.

## Course Requirements

Core Subjects:		Credit Points
EDGZ921	Introduction to Research and Inquiry	6
Plus 24 cp chosen from the following list		
EDGP934	Cultural politics of Sport, Leisure and Physical Education	6
EDGP935	Leadership and Management in Physical Education, Sport and Recreation	6
EDGP930	Theoretical and Practical Bases of Coach Education	6
EDGP931	Project for EDGP930	2
EDGP990	Practicum in a Learning Environment	6
EDGP991	Project for EDGP990	2
EDGP924	Young People and Health	6
EDGI911	Information Technology in Education and Training	6
EDGI912	Project for EDGI911	2
EDGI913	Instructional Strategies and Authoring	6
EDGI914	Project for EDGI913	2
EDGZ903	Minor Project	8

### Elective subjects:

The remainder of the 48cp program can be chosen from the list above, or from subjects chosen from the postgraduate program of the Physical and Health Education, Educational Leadership, Special Education or Information Technology specialisations, in consultation with the Physical and Health Education Co-ordinator.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Graduate Diploma in Adult Education / Higher Education / Vocational Education and Training

Arts	Testamur Title of Degree: Graduate Diploma in Adult Education
Commerce	Abbreviation: GDipAdultEd
	Home Faculty: Education
	Duration: 1 year or part time equivalent
	Total Credit Points: 48
	Delivery Mode: Face-to-face with online support
	Starting Session(s): Autumn/Spring
Creative Arts	Location: Wollongong
	UOW Course Code: 677
	CRICOS Code: 053884J
Education	Testamur Title of Degree: Graduate Diploma in Higher Education
	Abbreviation: GDipHigherEd
	Home Faculty: Education
	Duration: 1 year or part time equivalent
	Total Credit Points: 48
	Delivery Mode: Face-to-face with online support
	Starting Session(s): Autumn/Spring
Engineering	Location: Wollongong
	UOW Course Code: 678
	CRICOS Code: 053885G
Graduate School of Business	Testamur Title of Degree: Graduate Diploma in Vocational Education and Training
	Abbreviation: GDipVET
	Home Faculty: Education
	Duration: 1 year or part time equivalent
	Total Credit Points: 48
	Delivery Mode: Face-to-face with online support
Health & Behavioural Sciences	Starting Session(s): Autumn/Spring
	Location: Wollongong
	UOW Course Code: 679
	CRICOS Code: 053886G

### Overview

The Adult Education and Training postgraduate specialisation was intensively reviewed in 2004. The new program has been developed to respond to an emerging market in adult, vocational training and higher education and the need to respond to initiatives in education and training around online learning and flexible delivery. The program will seek to capitalise on an environment of innovation and change in:

- Higher Education
- TAFE and VET in Schools programs
- Health and Community Services
- Military, police and security services
- Corrective services

The courses will provide opportunity for students, who are most often mid-career professionals, to develop work-based projects to sustain innovation and change in their own organizations in their post graduate courses.

The program will incorporate a learning framework and a modular structure that provides opportunities for:

- Flexible entry and exit
- Customisation
- Multiple client groups to access the course in fee paying market

The program will be offered in online mode and will have options for total online and mixed mode delivery depending on student and client needs. Continuing students in the GDipAdultEd program should consult with the Specialisation Co-ordinator to discuss transition arrangements.

## Course Program

Subjects		Credit Points
EDGH951	Global Issues and Trends in Adult Education/Higher Education and VET	8
EDGH952	Learning about Learning in Adult Education/Higher Education and VET	8
EDGH953	Design and Use of New Technologies in Adult Education/Higher Education and VET	8
EDGH954	Leading and Managing in Adult Education/Higher Education and VET	8
EDGH955	Continuing Professional Development in Adult Education/Higher Education and VET	8
EDGH956	Innovation in Adult Education/Higher Education and VET	8
EDGH957	Multiliteracies and Numeracies in Adult Education/Higher Education and VET	8

Or other subjects selected in consultation with the Program Co-ordinator.

## Graduate Diploma in Education

Testamur Title of Degree:	Graduate Diploma in Education
Abbreviation:	GDipEd
Home Faculty:	Education
Duration:	1 year
Total Credit Points:	48
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong Shoalhaven (Primary only)
UOW Course Code:	621, 5H621
CRICOS Code:	003376K

## Overview

The Graduate Diploma in Education provides a professional course of pre-service education for intending primary and secondary school teachers. It also serves as an introduction to the study of education for those who wish to pursue further studies in the field, for example, at Masters level. The structure of the program seeks to combine the practical and theoretical elements of teaching by engaging students in professional aspects, including Methods work and classroom practice, from the beginning of the course. Underpinning and integrated with the professional aspects are curriculum studies and the “foundation” disciplines of education. Each component is intended to contribute to the development of concepts and skills relating to an understanding of, and competence in, teaching. It is expected that prospective teachers will develop as autonomous professionals who will be competent, innovative, and capable of contributing to the formulation of curriculum in schools and committed to their own continuous professional growth.

The course is for one year full-time, over an extended academic year of 36 teaching weeks from mid February to late November. It is not possible to study the course part-time, or to commence the course in the middle of the year.

The GDipEd program involves lectures, seminars, tutorials, individual assignments, group exercises and eleven weeks of full-time work in local schools. Methods work and practice teaching are provided in co-operation with local schools. Students are advised that the structure of the course makes it essential that it be undertaken as full-time study.

## Entry Requirements

Entry is available to graduates of this or another approved university who seek teacher qualifications. It may be necessary to restrict enrolments. In such a case, selection to the course will be made on the basis of academic merit and suitability of the first degree to teaching requirements. Preference will be given to graduates of the University of Wollongong. A statement of interests and experience in Education will also be requested from applicants and will be considered as part of the selection process.

Arts
Commerce
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Education
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Health & Behavioural Sciences
Informatics
Law
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## Course Requirements

Students must satisfactorily complete every subject and major component in their program of study before the Graduate Diploma in Education will be awarded. More specific details of assessment will be given in individual subject outlines.

Each session is divided into a number of blocks, each of which is either school or University based. As a result the course timetable changes several times during the year. Details of lecture contact hours and other time commitments expected of students are outlined in the Graduate Diploma of Education Handbook distributed to students at the beginning of the academic year.

Students are required to successfully complete the Core and Methods subjects relevant to their particular area of study. Methods subjects are central to the program and are offered throughout the year. The Method areas which are available may differ from year to year. Secondary Methods currently offered are: Commerce/Business Studies, Legal Studies, Geography, History, English, Computing Studies, Drama, French, Mathematics, Science, Art, Music, Physical and Health Education. Primary Method students undertake Primary Method A and Primary Method B.

Students are advised to check with the Faculty regarding the availability of specific Methods subjects.

Students are also advised to check with the Faculty through the Faculty's Student Service Centre (Building 23, Room G21) regarding the combinations of methods which will satisfy the requirements of the NSW Department of Education. A letter from the NSW Department of Education and Training stating that the student's undergraduate program is acceptable to the Department for recognition as a teacher of the chosen methods area(s) is compulsory for each student in their application.

## Course Program

### Subjects

### Credit Points

For those students pursuing secondary school methods:

EDGC800	Practicum	0
EDGC811	Understanding Learning A	6
EDGC812	Professional Skills A (not Physical and Health Education students)	6
EDGC813	Learning and Teaching Contexts A	6
EDGC814	Professional Skills A (PE/Health students ONLY)	6
EDGC821	Understanding Learning B	6
EDGC822	Professional Skills B (not Physical and Health Education students)	6
EDGC823	Learning and Teaching Contexts B	6
EDGC824	Professional Skills B (PE/Health students ONLY)	6

Plus 12 credit points of Secondary Methods

For those students pursuing primary school methods:

EDGC800	Practicum	0
EDGC811	Understanding Learning A	6
EDGC812	Professional Skills A	6
EDGC813	Learning and Teaching Contexts A	6
EDGC821	Understanding Learning B	6
EDGC822	Professional Skills B	6
EDGC823	Learning and Teaching Contexts B	6

Plus 12 credit points of Primary Methods

The program offered at the Shoalhaven Campus is delivered using the Knowledge Building Community (KBC) model. This model rests on collaborative problem solving under the guidance of mentors.

# Graduate Diploma in TESOL

Testamur Title of Degree:	Graduate Diploma in TESOL
Abbreviation:	GDipTESOL
Home Faculty:	Education
Duration:	1 year or part time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus, Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong, Distance
UOW Course Code:	669, DE669
CRICOS Code:	020206J

## Overview

The Graduate Diploma in TESOL has been extensively reviewed and revised for 2007. The course is designed for students with a completed Bachelor degree who are looking for a teaching qualification in TESOL. It does not assume any teaching experience or background and is a recognised teaching credential for teachers working with adult learners, eg in TAFE or other adult teaching contexts.

This course is designed for those who want a postgraduate qualification with a blend of theory and practice. The GDipTESOL consists of 48 credit points in total, with half of the degree consisting of applied studies, while the other half deals with more theoretical perspectives, providing a solid basis for program development. The GDipTESOL can also be completed by distance education, using online delivery technologies.

Students enrolled prior to 2007 must consult with the TESOL Program Co-ordinator to plan their program of study.

Students wishing to proceed to the MEd but who do not have a recognised teaching credential to meet the MEd entry requirements, are advised to undertake the Graduate Diploma in TESOL initially, and may transfer into the MEd program with credit for the subjects already completed, subject to satisfactory progress and approval from the Program Co-ordinator.

## Entry Requirements

Candidates must meet the normal University requirements for Graduate Diploma entry, ie, a three-year Bachelor degree or equivalent.

## Advanced Standing

Candidates who have completed a Certificate in English Language Teaching to Adults (CELTA) or equivalent qualification, in addition to the normal Graduate Diploma entry requirements, may be eligible for 12 credit points Advanced Standing, specified as two of EDGT917, EDGT940, EDGT930 or EDGT933.

## Course Program

The GradDipTESOL consists of subjects chosen from the list below, including a Practicum/Project (48 credit points in total). It is recommended that students take EDGT930 early in their study program. On-campus students should consult the relevant timetable to plan their course of study, as not all subjects are offered each session.

Students must take 48cp chosen from the following subjects:

Subjects		Credit Points
EDGT917	English Language: Learners' Problems	6
EDGT930	Methodology in Second Language Teaching*	6
EDGT931	Teaching Speaking and Listening	6
EDGT932	Second Language Literacy	6
EDGT933	Practicum or Project in TESOL*	6
EDGT934	Teaching Pronunciation and Prosody	6
EDGT935	Teaching English in International Contexts	6
EDGT940	Materials and Technology in Second Language Teaching	6
EDGT976	Text and Context	6
EDGT983	Assessment in TESOL	6
EDGT984	Theories of Second Language Learning	6

\* Compulsory core subjects in the GDipTESOL

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Graduate Certificate in Adult Education

Testamur Title of Degree:	Graduate Certificate in Adult Education
Abbreviation:	GCertAdEd
Home Faculty:	Education
Duration:	1 session or equivalent part time
Total Credit Points:	24
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	1151
CRICOS Code:	053881A

## Overview

This program will seek to explore adult education in a broad cross-sectoral response and will also aim to have significant links with other programs in the Faculty of Education.

The program will seek to capitalise on an environment of innovation and change in:

- Higher Education
- TAFE and VET in Schools programs
- Health and Community Services
- Military, police and security services
- Corrective services

The courses will provide opportunity for students, who are most often mid-career professionals, to develop work-based projects to sustain innovation and change in their own organizations in their post graduate courses.

The program will incorporate a learning framework and a modular structure that provides opportunities for:

- flexible entry and exit
- customisation
- multiple client groups to access the course in fee paying market

The program will be offered in online mode and will have options for total online and mixed mode delivery depending on student and client needs.

## Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three year degree or equivalent).

## Advanced Standing

Students who wish to continue onto the MEd or GDipAdult Education programs can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd or GDipAdultEd.

## Course Program

Subjects chosen from the list below to total 24 credit points.

Subjects		Credit Points
EDGH951	Global Issues and Trends in Adult Education/Higher Education and VET	8
EDGH952	Learning about Learning in Adult Education/Higher Education and VET	8
EDGH953	Design and Use of New Technologies in Adult Education/Higher Education and VET	8
EDGH954	Leading and Managing in Adult Education/Higher Education and VET	8
EDGH955	Continuing Professional Development in Adult Education/Higher Education and VET	8
EDGH956	Innovation in Adult Education/Higher Education and VET	8
EDGH957	Multiliteracies and Numeracies in Adult Education/Higher Education and VET	8



## Graduate Certificate in Computer Based Learning

Testamur Title of Degree:	Graduate Certificate in Computer Based Learning
Abbreviation:	GCertCompBasedLearn
Home Faculty:	Education
Duration:	1 session or equivalent part time
Total Credit Points:	24
Delivery Mode:	On Campus, Distance
Starting Session(s):	Autumn
Location:	Wollongong, Distance
UOW Course Code:	1110, D1110
CRICOS Code:	022891M

### Overview

The Graduate Certificate in Computer-Based Learning is designed to enable graduates to extend their knowledge of the use of computer technology in teaching.

### Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three-year degree or equivalent).

### Advanced Standing

Students who wish to continue onto the MEd program can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd.

### Course Program

Subjects		Credit Points
EDGI911	Information Technology and Training	6
EDGI913	Instructional Strategies and Authoring	6

Plus other subjects (including Project subjects) chosen from the subjects listed in the Program Information Technology in Education and Training in the Graduate School schedule chosen in consultation with the Course Co-ordinator to complete a 24 credit point program.

## Graduate Certificate in Educational Leadership

Testamur Title of Degree:	Graduate Certificate in Educational Leadership
Abbreviation:	GCertEdLead
Home Faculty:	Education
Duration:	1 session or equivalent part time
Total Credit Points:	24
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong/Distance
UOW Course Code:	1127
CRICOS Code:	029915G

### Overview

The Graduate Certificate in Educational Leadership is designed to provide an opportunity for mid-career professionals with a background in schools, tertiary education and adult education and training to undertake an intensive professional development program to address the changing nature of their work.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three-year degree or equivalent).

## Advanced Standing

Students who wish to continue onto the MEd program can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd.

## Course Program

### Subjects

		Credit Points
EDGL901	Foundations of Educational Leadership	6
EDGL903	Introduction to Educational Management	6

Plus other subjects chosen from the subjects listed in the Educational Leadership Program chosen in consultation with the course co-ordinator to complete a 24 credit point program.

## Graduate Certificate in Gifted Education

Testamur Title of Degree:	Graduate Certificate in Gifted Education
Abbreviation:	GCertGiftedEd
Home Faculty:	Education
Duration:	1 session or equivalent part time
Total Credit Points:	24
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	1109
CRICOS Code:	036455E

## Overview

The Graduate Certificate in Gifted Education is designed to provide a specialist qualification in the area of Gifted Education for graduates interested in qualifying in this area. The course consists of 24 credit points generally completed over twelve months.

## Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three-year degree or equivalent).

## Advanced Standing

Students who wish to continue onto the MEd program can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd.

## Course Program

### Subjects

		Credit Points
EDGS910	Learning Theories and Exceptionality	6
18 credit points chosen from the following:		
EDGS911	Project in Exceptional Education Practices	2
EDGS922	Teaching Gifted Students	6
EDGS923	Project in Gifted Education	2

EDGS924	Giftedness in Special Populations	6
EDGS925	Project in Dual Exceptionality	2
EDGS912	Contemporary Perspectives in the Education of Students with Diverse Needs	6
EDGS913	Project in Contemporary Perspectives	2

## Graduate Certificate in Higher Education

Testamur Title of Degree:	Graduate Certificate in Higher Education
Abbreviation:	GCertHighEd
Home Faculty:	Education
Duration:	1 session or equivalent part time
Total Credit Points:	24
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	696
CRICOS Code:	053882M

### Overview

This program is available to all existing and newly appointed academic staff of the University. The course will allow staff to develop their teaching capabilities and obtain a formal award as evidence of appropriate teaching skills.

This program will seek to explore adult education in a broad cross-sectoral response and will also aim to have significant links with other programs in the Faculty of Education.

The program will seek to capitalise on an environment of innovation and change in:

- Higher Education
- TAFE and VET in Schools programs
- Health and Community Services
- Military, police and security services
- Corrective services

The courses will provide opportunity for students, who are most often mid-career professionals, to develop work-based projects to sustain innovation and change in their own organizations in their post graduate courses.

The program will incorporate a learning framework and a modular structure that provides opportunities for:

- flexible entry and exit
- customisation
- multiple client groups to access the course in fee paying market

The program will be offered in online mode and will have options for total online and mixed mode delivery depending on student and client needs. Staff who successfully completes the Graduate Certificate in Higher Education would be eligible to enrol in the Graduate Diploma in Adult Education and Training with Advanced Standing for three subjects on condition that the applicant surrender the Graduate Certificate.

### Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (ie., a three year degree or equivalent).

#### Advanced Standing

Students who wish to continue onto the MEd program can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd.

### Course Program

Subjects are chosen from the list below in consultation with the course co-ordinator to total 24cp of study.

#### Subjects

#### Credit Points

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	EDGH951	Global Issues and Trends in Adult Education/Higher Education and VET	8
	EDGH952	Learning about Learning in Adult Education/Higher Education and VET	8
	EDGH953	Design and Use of New Technologies in Adult Education/Higher Education and VET	8
	EDGH954	Leading and Managing in Adult Education/Higher Education and VET	8
Commerce	EDGH955	Continuing Professional Development in Adult Education/Higher Education and VET	8
	EDGH956	Innovation in Adult Education/Higher Education and VET	8
	EDGH957	Multiliteracies and Numeracies in Adult Education/Higher Education and VET	8
Creative Arts	<b>Graduate Certificate in Literacy</b>		
Education	Testamur Title of Degree:	Graduate Certificate in Literacy	
	Abbreviation:	GCertLiteracy	
	Home Faculty:	Education	
	Duration:	1 session or equivalent part time	
	Total Credit Points:	24	
	Delivery Mode:	On Campus, Distance	
	Starting Session(s):	Autumn	
	Location:	Wollongong, Distance	
Engineering	UOW Course Code:	1106, D1106	
	CRICOS Code:	028403F	
Graduate School of Business	<b>Overview</b>		
	The Graduate Certificate in Literacy is designed to provide a specialist qualification in the area of Literacy Education for teachers interested in qualifying in this area. This is offered using online delivery methods.		
Health & Behavioural Sciences	<b>Entry Requirements</b>		
	Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three-year degree or equivalent).		
Informatics	<b>Advanced Standing</b>		
	Students who wish to continue onto the MEd program can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd.		
Law	<b>Course Program</b>		
	<b>Subjects</b>		<b>Credit Points</b>
	EDGR911	Teaching Reading	8
	EDGR912	Teaching Writing	8
	Plus one of the following:		
Science	EDGH957	Multiliteracies and Numeracies in Adult Education/Higher Education and VET	8
	EDGA971	Assessment and Evaluation of Language and Literacy	8
	EDGA987	Children's Literature	8

## Graduate Certificate in Physical and Health Education

Testamur Title of Degree:	Graduate Certificate in Physical and Health Education
Abbreviation:	GCert PE&Health
Home Faculty:	Education
Duration:	One session Full-time
Total Credit Points:	24
Delivery Mode:	On Campus,
Starting Session(s):	Summer
Location:	Wollongong,
UOW Course Code:	1157
CRICOS Code:	055830G

### Overview

The Graduate Certificate in Physical and Health Education is designed as a bridging program to update knowledge in relation to Adolescent Health and Practical Studies for domestic and international students. It will also provide an avenue for professional development of practicing teachers.

### Entry Requirements

Entry to this course will generally be on successful completion of an undergraduate degree or equivalent. Students must meet the English language requirements of the Graduate Diploma in Education.

### Course Program

Subjects	Credit Points
EDGP 901 Adolescent Health Studies I	6
EDGP902 Adolescent Health Studies II	6
EDGP903 Promoting Physical Activity I	6
EDGP904 Promoting Physical Activity II	6

## Graduate Certificate in Outdoor Education

Testamur Title of Degree:	Graduate Certificate in Outdoor Education
Abbreviation:	GCertOutdoorEd
Home Faculty:	Education
Duration:	1 session or equivalent part time
Total Credit Points:	24
Delivery Mode:	Flexible
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	1128
CRICOS Code:	N/A

### Overview

The Graduate Certificate in Outdoor Education is designed for educators interested in attaining the necessary skills and competencies to effectively teach outdoor education in a school or training setting. Outdoor Education draws on the disciplines of experiential education, adventure education, environmental education, social science and the humanities. The course consists of 24 credit points generally completed over twelve months.

### Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three-year degree or equivalent).

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Advanced Standing

Students who wish to continue onto the MEd program can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd.

## Course Program

### Subjects

### Credit Points

Four compulsory subjects (totalling 16 credit points) in the major study area:

EDGP910	Theory and Practice of Outdoor Education	6
EDGP911	Project for EDGP910	2
EDGP912	Facilitation Techniques in Outdoor Education	6
EDGP913	Project for EDGP912	2

Plus 8 credit points chosen from the PE/Health specialisation or the following areas of the Graduate Schedule: Educational Leadership, Adult Education, Environmental Education or related Project subjects.

## Graduate Certificate in Special Education

Testamur Title of Degree:	Graduate Certificate in Special Education
Abbreviation:	GCertSpecialEd
Home Faculty:	Education
Duration:	1 session or equivalent part time
Total Credit Points:	24
Delivery Mode:	Face-to-face with online support
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	1108
CRICOS Code:	029683G

## Overview

The Graduate Certificate in Special Education is designed to provide a specialist qualification in the area of Special Education for graduates interested in qualifying in this area. Contact the Special Education program co-ordinator for more details. The course consists of 24 credit points completed over twelve months.

## Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three-year degree or equivalent).

## Advanced Standing

Students who wish to continue onto the MEd program can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd.

## Course Program

### Subjects

### Credit Points

EDGS910	Learning Theories and Exceptionality	6
Plus subjects chosen from the following to complete 24 credit points:		
EDGS911	Project in Exceptional Education Practices	2
EDGS912	Contemporary Perspectives in the Education of Children with Diverse Needs	6
EDGS913	Project in Contemporary Perspectives	2
EDGS914	Assessment and Instruction of Individuals with Moderate to Severe Needs	6

EDGS915	Programs for Individuals with Moderate to Severe Needs	2
EDGS916	Models of Behaviour Management	6
EDGS917	Programming for Behaviour Management	2
EDGS918	Approaches to Reading Difficulties: Theories and Strategies	6
EDGS919	Reading Difficulties: Program Design and Implementation	2
EDGS920	Language and Communication Difficulties: Theory and Practice	6
EDGS921	Language-Related Learning Difficulties: A Case Study	2

## Graduate Certificate in TESOL (Teaching English to Speakers of Other Languages)

Testamur Title of Degree:	Graduate Certificate in TESOL
Abbreviation:	GCertTESOL
Home Faculty:	Education
Duration:	1 session or equivalent part time
Total Credit Points:	24
Delivery Mode:	Flexible, Distance
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	1164
CRICOS Code:	020199C

### Overview

The Graduate Certificate in TESOL has been extensively reviewed and revised for 2007. The revised Graduate Certificate in TESOL will provide graduates with high quality TESOL teacher education and a formal qualification recognised by all major local and international providers.

Continuing students completing the GCertTESOL should consult the Program co-ordinator for advice regarding their 2007 enrolment.

The GCertTESOL can also be completed by distance education, using online delivery technologies.

### Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three-year degree or equivalent). It is expected that candidates have some teaching experience or qualification. Those with no teaching experience should apply for the Graduate Diploma.

### Advanced Standing

Students who wish to continue onto the MEd program can transfer up to 12 credit points for subjects completed in a Graduate Certificate program, as not all GCertTESOL subjects are part of the MEd program.

### Course Program

Subjects are chosen from the list below to complete 24 credit points.

Subjects	Credit Points
EDGT917 English Language: Learners Problems	6
EDGT930 Methodology in Second language Teaching*	6
EDGT931 Teaching Speaking and Listening	6
EDGT932 Second Language Literacy	6
EDGT933 Practicum or Project in TESOL*	6
EDGT934 Teaching Pronunciation and Prosody	6
EDGT935 Teaching English in International Contexts	6
EDGT940 Materials and Technology in Second Language Teaching	6
EDGT976 Text and Context	6

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	EDGT983	Assessment in TESOL	6
	EDGT984	Theories of Second Language Learning	6
	EDGT985	English in Specific Contexts	6
	★ Core subject in TESOL specialisation		

## Graduate Certificate in Vocational Education and Training

Commerce	Testamur Title of Degree:	Graduate Certificate in VET
Creative Arts	Abbreviation:	GCertVET
	Home Faculty:	Education
	Duration:	1 session or equivalent part time
	Total Credit Points:	24
Education	Delivery Mode:	Face-to-face with online support
	Starting Session(s):	Autumn
	Location:	Wollongong
	UOW Course Code:	1152
Engineering	CRICOS Code:	053883K

### Overview

This program will seek to explore adult education in a broad cross-sectoral response and will also aim to have significant links with other programs in the Faculty of Education.

The program will seek to capitalise on an environment of innovation and change in:

- Higher Education
- TAFE and VET in Schools programs
- Health and Community Services
- Military, police and security services
- Corrective services

The courses will provide opportunity for students, who are most often mid-career professionals, to develop work-based projects to sustain innovation and change in their own organisations in their post graduate courses.

The program will incorporate a learning framework and a modular structure that provides opportunities for:

- flexible entry and exit
- customisation
- multiple client groups to access the course in fee paying market

The program will be offered in online mode and will have options for total online and mixed mode delivery depending on student and client needs.

Students who successfully complete the Graduate Certificate in Adult Education would be eligible to enrol in the Graduate Diploma in Adult Education and Training with Advanced Standing for three subjects on condition that the applicant surrender the Graduate Certificate.

### Entry Requirements

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three year degree or equivalent).

### Advanced Standing

Students who wish to continue onto the MEd program can transfer 24 credit points for subjects completed in a Graduate Certificate program, provided the candidate has not formally graduated with the Graduate Certificate award. If the candidate has formally received the Graduate Certificate, up to 12 credit points of advanced standing will be granted towards the MEd.

### Course Program

Subjects are chosen from the list below in consultation with the course co-ordinator, to total 24 credit points.

Subjects	Credit Points
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EDGH951	Global Issues and Trends in Adult Education/Higher Education and VET	8
EDGH952	Learning about Learning in Adult Education/Higher Education and VET	8
EDGH953	Design and Use of New Technologies in Adult Education/Higher Education and VET	8
EDGH954	Leading and Managing in Adult Education/Higher Education and VET	8
EDGH955	Continuing Professional Development in Adult Education/Higher Education and VET	8
EDGH956	Innovation in Adult Education/Higher Education and VET	8
EDGH957	Multiliteracies and Numeracies in Adult Education/Higher Education and VET	8

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	Commerce	Creative Arts	Education	Engineering	Graduate School of Business	Health & Behavioural Sciences	Informatics	Law	Science
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## SUBJECT DESCRIPTIONS

### EDGA806 Practicum in Adult Education

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The practicum in the GDipAdEd allows students to demonstrate their knowledge and performance skills in their work environment. They must demonstrate such basic professional competencies as needs assessment, course design, development, implementation, evaluation, and change management. The practicum is based on an individually defined and negotiated learning contract. Initial meetings will focus on refining ideas and developing a proposal after which students undertake their project with help from a nominated supervisor.

### EDGA917 International & Intercultural Perspectives

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Learning and teaching is strongly influenced by international developments in education and by multicultural learning environments. Students will critically analyse issues of language policy, intercultural communication, ethnicity, culture, and power from contemporary international and intercultural perspectives. Students will explore concepts of international education, internationalisation, global education and socio-cultural contexts of teaching, including education in less industrialised regions of the world and education for minority groups.

### EDGA920 Curriculum Problems and Issues in Physical and Health Education

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will examine the development of the curriculum in Physical and Health Education from an historical and social perspective. Particular issues will be taken as case studies. This subject is also intended to assist teachers in clarifying their position in relation to the PDHPE curriculum so that they may take a greater part in the curriculum change process itself and make considered judgements in its implementation.

### EDGA921 Scientific Bases of Health Education

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

### EDGA924 Adolescent Health Status and Behaviour

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** EDGA924 is not on offer

from 2007, it has been replaced by EDGP924 in the postgraduate schedule. Adolescence provides a crucial access point for the improvement of health, not only now but in adult life and in the next generation. This subject will explore the nature of adolescence and those factors influencing adolescent health. It will examine various strategies implemented in schools and the community to improve adolescent health. It will also examine the assumptions underpinning the adoption of particular approaches rather than others.

### EDGA959 Adult Literacy

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is no longer offered. EDGH957 replaces this subject in the postgraduate Literacy program. Adult literacy education involves assistance for those who have basic literacy problems as well as those who need to extend their language abilities in workplace. This subject will examine how to identify the language demands of various contexts in which adults need to employ various literacy skills, to diagnose the literacy needs of adult clients, and to develop programs to assist clients to extend their literacy proficiency.

### EDGA971 Assessment and Evaluation of Language and Literacy

Autumn Wollongong Flexible

Spring Wollongong Flexible

Autumn Wollongong Distance

Spring Wollongong Distance

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines both past and current issues and theoretical underpinnings of evaluating student learning. It will critically examine these issues in terms of contemporary theories of language and literacy learning. It will draw on recent research and theory related to the areas of psychometrics, qualitative evaluation, and linguistics. Students will also be required to trial and evaluate a range of assessment and evaluation instruments and procedures. The current move to standards and benchmarks will be addressed.

### EDGA976 Text and Context

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject explores the relationship between texts and their contexts, focusing on the nature of language at both the level of text and grammar. It draws on a functional model of language in order to examine the way in which language is used for various purposes, both in the community and in education. Through an analysis of texts students will explore how language functions to represent our experience of the world, to enable our participation in the world, and to shape up texts which are coherent and cohesive. This subject has been replaced by EDGT976 in the postgraduate TESOL program.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<b>EDGA981 Second Language Literacy</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The cultural and ideological nature of literacy is examined within a range of social, educational and vocational contexts including: a critical analysis of theories and second language literacy development; an analysis of literacy and TESOL teaching; the relationship between spoken and written language; implications for developing literacy programs for TESOL; principles for developing effective literacy programs; strategies for supporting the learning of literacy for ESL/EFL learners at beginner through to advanced levels. This subject has been replaced by EDGT932 in the postgraduate TESOL program.
Commerce	
Creative Arts	
Education	<b>EDGA983 Assessment in Tesol</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will examine various approaches to language assessment, from informal observation and self-assessment through to formal testing. In order to develop appropriate programs, TESOL teachers must be able to identify the needs of their students. This requires a solid grounding in the assessment of learners' oral language, reading and writing. In addition, they need to be able to critically analyse and evaluate formal assessment procedures and if necessary, learn how to design assessment tasks and prepare their students to sit for external tests. This subject has been replaced by EDGT983 in the postgraduate TESOL program.
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	<b>EDGA984 Language and Learning in Tesol</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject aims to familiarise students with the TESOL field, including current issues and areas of research. In particular, it will introduce students to various theoretical discourses in the field, comparing and contrasting relevant models of language and examining research and theory in the area of second language learning. Links will be made to classroom practice and materials as appropriate. This subject has been replaced by EDGT984 in the postgraduate TESOL program.
Informatics	
Law	<b>EDGA985 English in Specific Contexts</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> EDGA976 <b>Co-requisites:</b> None <b>Subject Description:</b> This subject prepares students to design and teach English projects and programs which address the needs of a specific clientele (e.g. English for Business, in the Workplace, for new arrivals). It examines how language varies across cultural contexts (nationally or internationally) and deals with methods for exploring the contexts and relevant language (academic, vocational, social, personal), using these
Science	

analyses in the study of projects, teaching programs and materials. This subject has been replaced by EDGT985 in the postgraduate TESOL program.

### EDGA987 Children's Literature

Spring Wollongong Flexible  
**Credit Points:** 8  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** Students will be guided towards an appreciation, enjoyment, evaluation and critique of a broad range of children's literature in the light of various theories of literary criticism. In addition, participants will become familiar with a number of strategies relating to children's literacy for use in the classroom. Students will be asked to consider the apparent assumptions about children as readers in the texts examined and the relationship between new technologies and children's literature.

### EDGB912 School Counselling in Context 2

*Not on offer in 2007*  
**Credit Points:** 2  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** This subject builds on the skills gained in the Psychology subjects, Principles and Practices of Psychological Assessment (GHMC 985) and Child and Adolescent Psychology (GHMC 978). The students will identify, investigate, determine and document appropriate actions and interventions relating to school students. The issues covered will include assessment, ethics and report writing relating to the specific problems and needs of children and adolescents.

### EDGB914 School Counselling in Context

Autumn Wollongong Flexible  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** The following areas will be addressed by students in on line lectures and forums, readings and assessment tasks. Counselling theories including Skilled Helper model; Interviewing skills; Development of a Portfolio that indicates knowledge of local community resources, observation and understanding of diversity of counsellor roles; Individual student management plans and report writing; Course involves residential sessions, on line learning, and support ; Practicum assessed jointly by University staff and DET line supervisors.

### EDGC800 Practicum

Annual Shoalhaven On Campus  
Annual Wollongong On Campus  
Annual Wollongong Distance  
**Credit Points:** 0  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** This subject is compulsory practicum component of the degree. It focuses on field experience in schools and on practice teaching in schools. Emphasis is placed on lesson planning and classroom management, and catering for a diversity of learners in the classroom. Students will also be required to reflect on the role of the teacher in child protection and welfare.

**EDGC811 Understanding Learning A**

Autumn Wollongong On Campus

Spring Shoalhaven On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject aims to develop understandings related to the nature of the learner and the role of the teacher in developing effective teaching and learning strategies to meet the needs of all learners. Issues such as mild intellectual disabilities, physical disabilities and high risk literacy learners are investigated throughout this subject.

**EDGC812 Professional Skills A**

Autumn Wollongong On Campus

Autumn Shoalhaven On Campus

Annual Wollongong Distance

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject covers the skills required of teachers as professionals. Emphasis on the development of language and literacy skills, encompassing communication, listening, interviewing, library researching, reporting and personal use of information and communication technology. Focus on developing awareness of school culture and the wider community, developing skills in intercultural communication, class management and protocol to support student welfare. Tertiary literacy development is expressed through the organization and presentation of assessment tasks in a developing portfolio.

**EDGC813 Learning and Teaching Contexts A**

Autumn Wollongong On Campus

Autumn Shoalhaven On Campus

Autumn Wollongong Distance

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject involves a critical study of the educational policies, historical, social and cultural contexts and philosophical underpinnings of education as they apply to the experiences of learners in NSW and Australian schools. It focuses on the diversity of school contexts. Teachers' values and the ways in which teachers assess and evaluate the outcomes of student learning are systematically explored in conjunction with processes of curriculum development, implementation and evaluation in NSW and Australian schools. Emphasis is placed on the ways in which gender, aboriginality, ethnicity, class, sexuality and difference are constructed. Language use, teaching strategies, student welfare, and student assessment in the KLA's are critically examined.

**EDGC814 Professional Skills A (Physical and Health Education)**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Strategies to promote the physical, social and emotional well-being of students will be explored. A range of contemporary issues affecting physical and health education will be

discussed and analysed. Professional teaching standards for physical and health education teachers will be examined with a focus on professional competence, accomplishment and leadership. There will also be a focus on promoting physical activity through effective sports administration and carnival organisation.

**EDGC821 Understanding Learning B**

Spring Wollongong On Campus

Autumn Shoalhaven On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject explores the nature of the learner and the role of the teacher in planning programs which cater to the diversity of learners. It includes a focus on: The psychology of learners with an emphasis on their diverse needs and the issues related to catering for the special needs of learners, for example, giftedness. Issues of classroom management are explored through the lens of the diversity of learners and how they can be supported in their classroom environments.

**EDGC822 Professional Skills B**

Spring Wollongong On Campus

Spring Shoalhaven On Campus

Spring Wollongong Distance

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Emphasis is placed on the development of: Understanding of the dimensions of Quality Teaching (DET, 2003); raising awareness of the needs of ESL learners; investigation of the need for literacy strategies across the curriculum; focus on further development of information and communication technology skills; and the importance of physical activities in school contexts. Tertiary literacies are expressed through the completion of a professional digital portfolio encompassing assessment tasks drawn from all subjects.

**EDGC823 Learning and Teaching Concepts B**

Spring Wollongong On Campus

Spring Shoalhaven On Campus

Autumn Wollongong Flexible

Spring Wollongong Distance

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject is a critical study of the influence of social, historical and theoretical contexts for teaching and learning as it applies to curriculum development. By critically examining the theoretical trends in sociology and changes in philosophical ideals, students make sense of current teaching and learning environments. Focus is on teacher reflection and assessment practices in these diverse contexts. Emphasis is placed on principles of leadership and teamwork as well as practical approaches to responding to changing needs of schools and students. This subject aims to deepen student understanding of time, place and identity in relation to educational change.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<b>EDGC824 Professional Skills B (Physical and Health Education)</b> Annual Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject covers the skills required of teachers as professionals. Emphasis on the development of language and literacy skills, encompassing communication, listening, interviewing, library researching, reporting and personal use of information and communication technology. Focus on developing awareness of school culture and the wider community, developing skills in intercultural communication, class management and assessment of learners with special needs. Tertiary literacies are expressed through completion of a professional portfolio encompassing assessment tasks drawn from all subjects.	management practices for teachers of Mathematics. There will be critical examination of syllabuses in Mathematics from other states and countries.
Commerce		
Creative Arts		
Education	<b>EDGC851 Science Method A</b> Annual Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will cover the content of the NSW Year 7-10 syllabuses in Science. Included will be the teaching and assessment methods applicable to the NSW Years 7 to 10 syllabuses in Science. There will be critical examination of mandatory policies that affect teachers of Science (including child protection and occupational health and safety). This subject also covers the classroom management practices for teachers of Science. There will be critical examination of syllabuses in Science from other states and countries.	<b>EDGC854 Mathematics Method B</b> Annual Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will cover the content of the NSW Year 11-12 syllabuses in Mathematics. Included will be the teaching and assessment methods applicable to the NSW Higher School Certificate in Mathematics. There will be critical examination of mandatory policies that affect teachers of senior high school Mathematics (including child protection and occupational health and safety). Programming and planning methods for teaching senior high school mathematics. This subject also covers the classroom management practices for teachers of senior high school Mathematics. There will be critical examination of syllabuses in senior high school Mathematics from other states and countries.
Engineering		
Graduate School of Business	<b>EDGC852 Science Method B</b> Annual Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will cover the content of the NSW Year 11-12 syllabuses in Science. Included will be the teaching and assessment methods applicable to the NSW Higher School Certificate in Science. There will be critical examination of mandatory policies that affect teachers of senior high school Science (including child protection and occupational health and safety). This subject also covers the classroom management practices for teachers of senior high school Science. There will be critical examination of syllabuses in senior high school Science from other states and countries.	<b>EDGC855 English Method</b> Annual Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will cover the content of the NSW Year 7-12 syllabuses in English. Included will be the teaching and assessment methods applicable to the NSW syllabuses in English. There will be critical examination of mandatory policies that affect teachers of English (including child protection and occupational health and safety). Programming and planning methods for teaching English. This subject also covers the classroom management practices for teachers of English. There will be critical examination of syllabuses in English from other states and countries.
Health & Behavioural Sciences		
Informatics		
Law		
Science	<b>EDGC853 Mathematics Method A</b> Annual Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will cover the content of the NSW Year 7-10 syllabuses in Mathematics. Included will be the teaching and assessment methods applicable to the NSW Years 7 to 10 syllabuses in Mathematics. There will be critical examination of mandatory policies that affect teachers of Mathematics (including child protection and occupational health and safety). Programming and planning methods for teaching Mathematics. This subject also covers the classroom	<b>EDGC856 History Method</b> Annual Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will cover the content of the NSW Year 7-12 syllabuses in History. Included will be the teaching and assessment methods applicable to the NSW syllabuses in History. There will be critical examination of mandatory policies that affect teachers of History (including child protection and occupational health and safety). Programming and planning methods for teaching History. This subject also covers the classroom management practices for teachers of History. There will be critical examination of syllabuses in History from other states and countries.
		<b>EDGC857 Social Science Method A- (Geography)</b> Annual Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will cover the content of the NSW Year 7-12 syllabuses in Geography.



Included will be the teaching and assessment methods applicable to the NSW syllabuses in Geography. There will be critical examination of mandatory policies that affect teachers of Geography (including child protection and occupational health and safety). Programming and planning methods for teaching Geography. This subject also covers the classroom management practices for teachers of Geography. There will be critical examination of syllabuses in Geography from other states and countries.

#### **EDGC858 Social Science Method B- (Commerce/Business Studies)**

Annual Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will cover the content of the NSW Year 7-12 syllabuses in Economics. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Economics. There will be critical examination of mandatory policies that affect teachers of Economics (including child protection and occupational health and safety). Programming and planning methods for teaching Economics. This subject also covers the classroom management practices for teachers of Economics. There will be critical examination of syllabuses in Economics from other states and countries.

#### **EDGC859 English As A Second Language Method**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Included will be the teaching and assessment methods applicable to ESL students. There will be critical examination of mandatory policies that affect ESL teachers (including child protection and occupational health and safety). Programming and planning methods for teaching ESL. This subject also covers the classroom management practices for ESL teachers. There will be critical examination of policies from other states and countries that relate to ESL teaching.

#### **EDGC860 Social Science Method C-(Legal Studies)**

Annual Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will cover the content of the NSW Year 7-12 syllabuses in Legal Studies. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Legal Studies. There will be critical examination of mandatory policies that affect teachers of Legal Studies (including child protection and occupational health and safety) and programming and planning methods for teaching Legal Studies. This subject also covers the classroom management practices for teachers of Legal Studies. There will be critical examination of syllabuses in Legal Studies from other states and countries.

#### **EDGC861 Method for Primary Teachers A (K-2)**

Annual Wollongong On Campus

Annual Shoalhaven On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Included will be the teaching and assessment methods applicable to Early Stage 1 / Stage 1 students (K-2). There will be critical examination of mandatory policies that affect Primary Stage 1 teachers (including child protection and occupational health and safety). Programming and planning methods for teaching Primary Stage 1. This subject also covers the classroom management practices for Primary Stage 1 teachers. There will be critical examination of curriculum and relevant policies from other states and countries that relate to the first three years of learning.

#### **EDGC862 Method for Primary Teachers B (3-6)**

Annual Wollongong On Campus

Annual Shoalhaven On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Included will be the teaching and assessment methods applicable to Stage 2/Stage 3 (years 3-6). There will be critical examination of mandatory policies that affect Stage 2/Stage 3 (3-6) teachers (including child protection and occupational health and safety). Programming and planning methods for teaching Stage 2/Stage 3 (3-6). This subject also covers the classroom management practices for Primary (3-6) teachers. There will be critical examination of policies from other states and countries that relate to the next four years of learning.

#### **EDGC871 Music Method A**

Annual Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will cover the content of the NSW Year 7-10 syllabuses in Music. Included will be the teaching and assessment methods applicable to the NSW Years 7 to 10 syllabuses in Music. There will be critical examination of mandatory policies that affect teachers of Music (including child protection and occupational health and safety). Programming and planning methods for teaching Music. There will be critical examination of syllabuses in Music from other states and countries.

#### **EDGC872 Music Method B**

Annual Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will cover the content of the NSW Year 11-12 syllabuses in Music. Included will be the teaching and assessment methods applicable to the NSW Years 11 and 12 syllabuses in Music. There will be critical examination of mandatory policies that affect teachers of Music (including child protection and occupational health and safety).

Arts	
Commerce	
Creative Arts	
Education	
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

Arts	<p>Programming and planning methods for teaching Music to Years 11 and 12. This subject also covers the classroom management practices for teachers of Music. There will be critical examination of Year 11 and 12 syllabuses in Music from other states and countries.</p>
Commerce	<p><b>EDGC873 Visual Arts Method A</b>  Annual Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject will cover the content of the NSW Year 7–10 syllabuses in Visual Arts. Included will be the teaching and assessment methods applicable to the NSW Years 7 to 10 syllabuses in Visual Arts. There will be critical examination of mandatory policies that affect teachers of Visual Arts (including child protection and occupational health and safety). Programming and planning methods for teaching Visual Arts. This subject also covers the classroom management practices for teachers of Visual Arts. There will be critical examination of syllabuses in Art from other states and countries.</p>
Creative Arts	
Education	<p><b>EDGC874 Visual Arts Method B</b>  Annual Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject will cover the content of the NSW Year 11–12 syllabuses in Visual Arts. Included will be the teaching and assessment methods applicable to the NSW Years 11 and 12 syllabuses in Visual Arts. There will be critical examination of mandatory policies that affect teachers of Visual Arts (including child protection and occupational health and safety). Programming and planning methods for teaching Art to Years 11 and 12. This subject also covers the classroom management practices for teachers of Visual Arts. There will be critical examination of Year 11 and 12 syllabuses in Visual Arts from other states and countries.</p>
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	<p><b>EDGC875 Drama Method</b>  Annual Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject will cover the content of the NSW Year 7–12 syllabuses in Drama. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Drama. There will be critical examination of mandatory policies that affect teachers of Drama (including child protection and occupational health and safety). Programming and planning methods for teaching Drama. This subject also covers the classroom management practices for teachers of Drama. There will be critical examination of syllabuses in Drama from other states and countries.</p>
Informatics	
Law	
Science	<p><b>EDGC876 French Method</b>  Annual Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject will cover the content of the NSW Year 7–12 syllabuses in French. Included will be the teaching and assessment methods applicable to the NSW syllabuses in French. There will be critical examination of mandatory policies that affect teachers of French (including child protection and occupational health and safety). Programming and planning methods for teaching French. This subject also covers the classroom management practices for teachers of French. There will be critical examination of syllabuses in French from other states and countries.</p>
	<p><b>EDGC877 Italian Method</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject will cover the content of the NSW Year 7–12 syllabuses in Italian. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Italian. There will be critical examination of mandatory policies that affect teachers of Italian (including child protection and occupational health and safety). Programming and planning methods for teaching Italian. There will be critical examination of syllabuses in Italian from other states and countries.</p>
	<p><b>EDGC878 Japanese Method</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject will cover the content of the NSW Year 7–12 syllabuses in Japanese. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Japanese. There will be critical examination of mandatory policies that affect teachers of Japanese (including child protection and occupational health and safety). Programming and planning methods for teaching Japanese. This subject also covers the classroom management practices for teachers of Japanese. There will be critical examination of syllabuses in Japanese from other states and countries.</p>
	<p><b>EDGC881 Computer Studies Method A</b>  Annual Wollongong On Campus  Autumn Wollongong Distance  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject will cover the content of the NSW Year 7–10 syllabuses in Computer Studies. Included will be the teaching and assessment methods applicable to the NSW School Certificate in Computer Studies. There will be critical examination of mandatory policies that affect teachers of Computer Studies (including child protection and occupational health and safety). Programming and planning methods for teaching Computer Studies for Years 7–10. This subject also covers the classroom management practices for teachers of Computer Studies for Years 7–10. There will be critical examination of syllabuses for Years 7–10 Computer Studies from other states and countries.</p>
	<p><b>EDGC882 Computer Studies Method B</b>  Annual Wollongong On Campus  Spring Wollongong Distance  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None</p>



**Co-requisites:** None

**Subject Description:** This subject will cover the content of the NSW Year 11-12 syllabuses in Computer Studies. Included will be the teaching and assessment methods applicable to the NSW Higher School Certificate in Computer Studies. There will be critical examination of mandatory policies that affect teachers of senior high school Computer Studies (including child protection and occupational health and safety). Programming and planning methods for teaching senior high school Computer Studies. This subject also covers the classroom management practices for teachers of senior high school Computer Studies. There will be critical examination of syllabuses in senior high school Computer Studies from other states and countries.

### EDGC883 Computer Studies Method

Annual Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The content of the NSW Year 7 - 12 syllabuses in Computer Studies. Teaching & assessment methods applicable to the NSW School Certificate and Higher School Certificate in Computer Studies. Critical examination of mandatory policies that affect teachers of Computer Studies. Programming and planning methods for teaching Computer Studies for Years 7 - 12. Critical examination of syllabuses for years 7 - 12 Computer Studies from other states and countries.

### EDGC891 Physical and Health Education Method A

Annual Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The nature of physical and health education, contemporary curriculum models and programming and planning methods will be examined. The content focuses predominantly on the NSW Year 7-10 and equivalent syllabuses in Personal Development, Health and Physical Education and related support documents. The Physical Activity and Sports Studies program will also be explored. Classroom and outdoor management practices for teachers of PDHPE and how the diverse nature of learners impact on the planning and implementation of PDHPE are critically analysed. Students will be given the opportunity to apply their knowledge by participating in extended practicum sessions.

### EDGC892 Physical and Health Education Method B

Annual Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will investigate national and international comparisons in Physical and Health Education. The content focuses predominantly on the NSW Year 11-12 or equivalent syllabuses in Personal Development, Health and Physical Education and related support documents. Sport, Lifestyle and Recreation and Community and Family

Studies syllabuses will also be explored. There will be a focus on programming and assessment with investigation into innovative teaching strategies.

### EDGC909 Teaching Internship

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will design, implement and evaluate one or more integrated sequences of quality learning experiences extending over a period of about 10 weeks which display diversity of teaching strategies and techniques and encompass a wide range of learning styles. There will be a major emphasis on an ongoing reflective evaluation involving the student, peers, professional mentor and University staff culminating in a comprehensive critical analysis of the activities of the subject.

### EDGH951 The Global Challenge in Adult Education/VET/Higher Education

Spring Wollongong Flexible

Autumn Wollongong Flexible

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides an introduction to the contemporary adult education environment in Australia, as well as addressing challenges that will confront adult educators and administrators. Students will be introduced to key elements of adult and vocational education, including an exploration of the relationships between work, technology, training and employment, and new technologies and settings for learning. The subject will explore aspects of the National Training Reform Agenda. These developments are explored in the context of the work of administrators, trainers and teachers in their workplace settings. Four out of the five assessment modules must be completed successfully.

### EDGH952 Learning about Learning in Adult Education/VET/Higher Education

Autumn Wollongong Flexible

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This introductory subject provides a policy context in which teaching and learning in VET, adult and higher education has been developed, exploring some theoretical positions that have informed vocational education, including problem-based learning, reflective practice and the development of practitioner-based learning. The eight modules seek to model aspects of good learning theory through applied assessment tasks that enable students to trial learning experiences in their workplace. Students have the option to develop learning experiences and assessment and evaluation with a view to improving their own practice.

### EDGH953 Design and Use of New Technologies in Ad Educ/VET/Higher Educ

Spring Wollongong Flexible

**Credit Points:** 8

**Pre-requisites:** None

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject provides both theoretical and practical dimensions of utilising new digital technologies of learning in adult,VET and higher education.The subject will address the nature and character of computer-based information and communications technology.The subject explores theory associated with learning mediated by technology and explores the application of web-based learning, the Internet, multimedia and learning objects to develop online learning environments.</p>
Commerce	
Creative Arts	<p>Spring Wollongong Flexible</p> <p><b>Credit Points:</b> 8</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject explores the importance of leadership that is collaborative, planned and outcome oriented.The possibilities for developing collaborative partnership-based forms of management that enhance outcomes for the community and industry are stressed. Students will be encouraged to critically review their understanding and experience of management and leadership and review their practice with a view to developing productive partnerships within their working units and communities. Students will also be introduced to the principles of outcomes-based planning and the notion of multiple and diverse accountabilities such as the triple bottom line.This subject also stresses the need to develop leadership and management strategies that have the capacity to develop global alliances that incorporate international settings.</p>
Education	
Engineering	
Graduate School of Business	<p><b>EDGH955 Professional Development in Ad Educ/VET/Higher Educ</b></p> <p>Spring Wollongong Flexible</p> <p>Autumn Wollongong Flexible</p> <p><b>Credit Points:</b> 8</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject enables students to develop a negotiated professional development project in areas associated with Adult Education,VET and Higher Education.The subject explores the concept of professional development in the workplace and explores opportunities for students to develop portfolios directed at emerging issues in Adult Education,VET and Higher Education.The subject has a particular emphasis on developments in research in the Higher Education sector.The subject has four assessment modules.</p>
Health & Behavioural Sciences	
Informatics	
Law	<p><b>EDGH956 Innovation for Practitioners in Ad Educ/VET/Higher Educ</b></p> <p>Autumn Wollongong Flexible</p> <p>Spring Wollongong Flexible</p> <p><b>Credit Points:</b> 8</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject is designed to provide students with an opportunity to develop and trial an innovative response to issues in their workplace. The subject emphasises an approach to developing a learning experience or innovation in their workplace such as a curriculum unit that involves action learning.</p>
Science	

The subject material promotes and features a collaborative and cyclic approach to design, implementation and evaluation that enables participation and feedback by members of workplaces.The subject offers opportunities for students to develop innovations in their workplace and to develop materials or events that promote effective learning.This subject has four assessment modules.

### EDGH957 Multiliteracies and Numeracies in Ad Educ/VET/Higher Educ

Spring Wollongong Flexible

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject explores issues relating to the dynamic notion of literacy and numeracy in the context of globalisation and information and computer technology.The concept of multiliteracies is a feature of the subject and contributes to developing an analysis of literacy and numeracy as multimodal and multidimensional social practices involving a broad dimension of communication in the workplace, community and other diverse settings.The subject explores the development of literacy and numeracy contextualised by work-based settings in the Adult Education,VET and the Higher Education sectors.The subject has four modules.

### EDGI911 Information Technology in Education and Training

Autumn Wollongong Flexible

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides a basic introduction to information and communication technologies in education and training. It is an overview of the range of issues and topics that will be elaborated upon in subsequent subjects within the Information and Communication Technologies in Learning program . This subject explores the concept of technology and the ways in which the educational enterprise is affected by it.Topics include:The Technology: Hardware, software, media; Learning Theory; Formal Learning Environments; Instructional Design Process;Teaching and Learning Strategies; and Informal Learning Environments.

### EDGI912 Project for EDGI911

Autumn Wollongong Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is an optional project component to be taken in conjunction with EDGI 911.The 2 cp Project extends the opportunity to study the issues of EDGI911 Instructional Design.

### EDGI913 Instructional Strategies and Authoring

Spring Wollongong Flexible

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines

instructional strategies employed in a range of technology-supported learning environments. Learners will develop their understanding of a variety of strategies through the design and development of small multimedia prototypes, using written documentation and authoring tools to explore and present their ideas.

#### **EDGI914 Project for EDGI913**

Spring Wollongong Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is an optional project component to be taken in conjunction with EDGI 913. The 2 cp Project extends the opportunity to study the issues of EDGI913 Instructional Strategies and Authoring.

#### **EDGI915 Network-Based Learning**

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the design and research that surrounds the development of flexible learning systems and computer mediated communication using the Internet and other network environments. Topics to be covered include the technology of wired and wireless learning networks, the theoretical and pedagogical underpinnings of network-based learning and the communication models that are utilised in network-based learning.

#### **EDGI916 Project for EDGI915**

Spring Wollongong Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is an optional project component to be taken in conjunction with EDGI 915. The 2 cp Project extends the opportunity to study the issues of EDGI915 Network-Based Learning

#### **EDGI917 Instructional Design**

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In this subject, the student will engage in the design of innovative and authentic learning environments through the application of instructional design principles. They will have the opportunity to create learning environments using a range of different technologies, and to work both individually and collaboratively at a distance. They will design a problem statement, and outline planning decisions related to task design, assessment, instructional strategies, media selection, and program evaluation. The student will be able to choose projects to suit their own teaching or training needs, and focus on topics and media of interest.

#### **EDGI918 Project for Instructional Design**

Spring Wollongong Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** EDGI917

**Subject Description:** This is an optional project

component to be taken in conjunction with EDGI917. The 2 cp Project extends the opportunity to study the issues of EDGI917 Instructional Design.

#### **EDGI931 Interactive Multimedia Design**

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** EDGI911 and EDGI913

**Co-requisites:** None

**Subject Description:** This subject explores the instructional issues important in the design of media resources for Web and CD-based multimedia educational materials. Students will have an opportunity to design their own multimedia treatments for concepts of their choice, and using the software tools available, develop these into small on-screen presentations.

#### **EDGI932 Project for EDGI931**

Autumn Wollongong Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is an optional project component to be taken in conjunction with EDGI 915. The 2 cp Project extends the opportunity to study the issues of EDGI916 Network-Based Learning

#### **EDGI933 Implementation and Evaluation of Technology-Based Learning**

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is designed to investigate the links between educational evaluation and implementation, particularly where learning is being supported by information technologies. It seeks to define the basic issues facing the practitioner when they are trying to manage technology-based learning projects and to answer such questions as: Is the project effective? Is there a problem with the design or the way it is implemented? How might it be changed or modified? Students will use on-line tools and work collaboratively over the Web.

#### **EDGI934 Project for EDGI933**

Autumn Wollongong Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is an optional project component to be taken in conjunction with EDGI933. The 2 cp Project extends the opportunity to study the issues of EDGI933 Implementation and Evaluation of Technology-Based Learning

#### **EDGI951 Visual and Interface Design**

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In the design of interactive learning systems, the development of an effective interface requires not only an understanding of the structure of the knowledge domain but also the most effective way to represent this structure to users and

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Arts	allow it to be manipulated in the pursuit of the desired outcome. This subject discusses the role of effective visualization and screen design and the ways it can facilitate understanding by learners/users of software. Topics focus on how visual design and metaphor support reduction in cognitive load, how effective electronic performance support systems support work through complex tasks, and how usability can be investigated.
Commerce	<b>EDGI952 Project for EDGI951</b> Autumn Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None
Creative Arts	<b>EDGI953 Current Issues in Information Technology in Education and Training</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject involves an investigation of current key and topical research and design issues in information technology in education and training. It incorporates a review of the most recent technical and educational developments in this area, and offers students an opportunity to investigate a specific issue of interest in detail. It is expected that students will critically review the topic and develop a view on its implications for learning.
Education	
Engineering	
Graduate School of Business	<b>EDGI954 Project For EDGI954</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This is the project for EDGI954
Health & Behavioural Sciences	<b>EDGI955 Research In Learning Environments</b> Autumn Wollongong Flexible Spring Wollongong Flexible <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> In this subject, students will complete a small individual enquiry in an area of their own educational interest. They will engage in exploration of research goals and methodologies appropriate to technology-based learning environments. In particular, methods compatible with development goals will be investigated. Students will explore educational research using the design-based research approach, and design and implement a small-scale, practical study of technology use in classrooms or other educational settings. Students must consult with the specialisation co-ordinator before enrolling in this subject.
Informatics	
Law	
Science	<b>EDGI956 Project For EDGI955 - Research In Learning Environments</b> Autumn Wollongong Flexible Spring Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None

**Subject Description:** This is an optional project component to be taken in conjunction with EDGI955. The 2 cp Project extends the opportunity to study the issues of EDGI955.

### EDGI957 Digital Learning Systems Design

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** EDGI913 and/or EDGI911

**Co-requisites:** None

**Subject Description:** This subject focuses on design, development and management issues associated with creating technology-supported learning environments. The detailed issues of design will be examined through the use of instructional design models based on theoretical views of learning and through the analysis of real-life cases. Teams of students will work together to develop a project that addresses a specific educational or training problem through to an advanced prototype.

### EDGI958 Project for EDGI957

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is an optional project component to be taken in conjunction with EDGI 957. The 2 cp Project extends the opportunity to study the issues of EDGI 957 Digital Learning Systems Design.

### EDGI962 Teaching and Learning with Technology

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is part of a contract program. Students may only enrol with the permission of the program co-ordinator. In EDGI962 students will engage in the professional practice of teaching and learning with technology within the context of teacher professional development in IT programs. Students will design innovative, technology-rich learning environments, implement lessons, reflect on the process and evaluate effects. They will have the opportunity to create and implement learning environments with their classes using a range of different technologies appropriate to the needs of each teacher and curriculum area (such as creating websites, using GIS, developing Power point presentations with students, or making digital movies). Students will work both individually and collaboratively. They will reflect on their processes and achievements.

### EDGI963 Project in Teaching and Learning with Technology

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is part of a contract program. Students may only enrol with the permission of the program co-ordinator. This is an optional project component to be taken in conjunction with EDGI962. The 2 cp Project extends the opportunity to study the issues of EDGI962 Teaching and Learning with Technology.

## EDGL901 Foundations of Educational Leadership

Autumn Wollongong Flexible  
Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This core subject provides students with the range of foundational understandings essential for understanding the leadership function in education and training organisations. The content covers the main areas of intellectual understanding which underpin 'futures oriented' effective leadership, by developing conceptual understandings of: policy context and planning; sociological pressures; futurism; economic realities and education; curriculum leadership and planning; and change strategies.

## EDGL903 Introduction to Educational Management

Spring Wollongong Flexible  
Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This core subject provides students with the range of foundational understandings essential for understanding the management function in education and training organisations. The content topics are selected to introduce the main areas of intellectual understanding which underpin 'present' oriented effective management by developing conceptual understandings of: adult education and training; staff development; information systems; financial management; personal management skills- as they contribute to the management function of educational organisations. As the course is related to educational management, it takes an overarching view of the challenges and issues facing incumbent or aspiring educational managers from different perspectives including physical education, sport and recreation. Students will be able to explore issues of relevance and application to their specific context.

## EDGL904 Project For EDGL903

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The 2 cp Project extends the opportunity to study the issues of EDGL903 Introduction to Educational Management. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken

## EDGL905 International Trends In Educational Leadership

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** EDGL901 or EDGL903

**Co-requisites:** None

**Subject Description:** Contact hours: 3 hr/ week or equivalent. This core subject provides a futures oriented context and understanding to the development and implementation of education and training policies in a rapid change, globalising economy. Selected content

areas include: internationalisation of economies and social systems; policy and planning implications of weakened nation states, and the emergence of global social, economic, and legal systems; international perspectives on education and training; approaches to policy and planning in comparative social systems; the limitations of central policy and planning systems in rapid change customer focussed contexts; emerging methodologies for effective policy and planning in education and training systems and organisations.

## EDGL906 Project For EDGL905

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The 2 cp Project extends the opportunity to study the issues of EDGL905. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken

## EDGL909 Leadership of Effective Change

Autumn Wollongong Flexible  
Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The topics, case studies, and projects of this subject are selected to develop effective leadership strategies for implementing effective change in education and training organisations. They include: characteristics of effective change; environmental scans; the critical role and importance of staff in implementing effective change; working through HR strategies to achieve effective change strategies for planning, implementing and monitoring effective change in professional service organisations, with a particular focus on project management techniques for effective change

## EDGL910 Project in Leadership of Effective Change

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The 2 cp Project extends the opportunity to study the issues of EDGL909 Leadership of Effective Change. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

## EDGL911 Leadership in Curriculum

Autumn Wollongong Flexible  
Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This core subject deals with the special leadership and management tasks of the education and training organisation. The particular features of professional service organisations dealing with education and training processes and outcomes will be highlighted. The leadership/management roles and tasks which both oversight and complement the professional roles of the curriculum and instructional specialist(s) will be particularly emphasised. The subject

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will take a practical, case study approach to the range of issues and concerns generated by the special leadership requirements of the educational organisation.

### EDGL912 Project in Leadership in Curriculum

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The 2 cp Project extends the opportunity to study the issues of EDGL911 Leadership of Curriculum and Instruction. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

### EDGL913 Program Evaluation

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A range of evaluation approaches, their assumptions and major methodologies which may be applicable in formal educational, non-formal and business and industry environments are discussed and critiqued. Students have the opportunity to participate in evaluation simulations and undertake and share their own evaluation as part of the subject. Issues addressed include: ethical priorities; program planning and budgeting; QA, accreditation; skill transfer and site based action research.

### EDGL914 Project in Program Evaluation

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The 2 cp Project extends the opportunity to study the issues of EDGL913 Program Evaluation. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

### EDGL915 Information Systems for Educational Leadership

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This core subject deals with the developing understandings and skills required of educational leaders in the transformational influence(s) of information systems and information technology on the education and training function. Topics will include: information systems and their impact on educational management; development of information analysis techniques; writing specifications for systems; linking information systems with management processes and organisational structures; issues for educational management; course delivery; logistics; records management; databases; and curriculum organisation.

### EDGL916 Project in Information Systems for Educational Leadership

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** cp Project extends the opportunity to study the issues of EDGL915 Information Systems and Educational Leadership. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

### EDGL917 Leadership in Quality Learning and Teaching

Spring Wollongong Flexible

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will examine the impact on learning communities of changing instructional and learning needs in relation to concepts of quality, effectiveness, improvement and accountability. Critical influences of learning contexts on learning outcomes will be considered. Students will explore recent developments in learning and teaching theory in terms of the enhancement of reflective and self-directed learning, the encouragement of student voice, mentoring, and interactive multimedia teaching and learning strategies.

### EDGL918 Project in Quality Learning and Teaching

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The 2 cp Project extends the opportunity to study the issues of EDGL917 Quality Learning and Teaching. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

### EDGL919 Mentoring Beginning Teachers

Autumn Wollongong Flexible

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Theoretical framework: analysis and critique of relevant literature; professional needs of beginning teachers; context in terms of relevant policy documents; mentoring as a model of promoting teachers development; assessing teacher performance; and designing, implementing and evaluating a mentoring program.

### EDGL920 Leading, Developing and Managing People

Spring Wollongong Distance

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** People constitute a major source of organisational advantage and success. This course deals with the leadership challenges of managing, motivating and energising people in human service organisations such as education. Drawing upon research and effectual/ineffectual exemplars, participants will consider people management strategies from a variety

of perspectives: recruitment and induction, supervision and performance management, team building, conflict resolution, and professional development.

### EDGL921 Project for EDGL920

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

### EDGL922 Law for Educational Leaders

Spring Wollongong Distance

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The following broad areas of subject content will be encountered by students in their readings, the weekly on-line sessions and in the assessment tasks: • The common law • Traditional claims to justice • The duty of care • The tort of negligence – students' physical welfare • Sport, physical education, excursion, practical activities • Significant statute law and education regulations • Educational malpractice – the failure to educate • The powers of police and the courts • School rules, policies, procedures and the law – student welfare and discipline • Child Protection • Attendance, suspension, expulsion/exclusion • Confiscation and search • The rights of students, teachers and the general public • Family law, custody, access • Relevant educational case histories in law • Current trends in education and the law • Risk management and harm minimisation for educational leaders

### EDGL923 Project in Law for Educational Leaders

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** EDGL922 – Law for Educational Leaders

**Subject Description:** The 2cp Project extends the opportunity to study the issues of EDGL922 Law for Educational Leaders. In general a major project or case study will form the basis of the individual work for the extra 2cp undertaken.

### EDGP910 Introduction to Outdoor Education

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Increasing pressure in urban and contemporary living has placed greater awareness on environmental and outdoor opportunities for educational, community and corporate groups. A variety of learning experiences will be presented which enable students to gain an insight into how Outdoor Education is used as a catalyst for social and personal development and/or environmental sensitivity. Topics include: the philosophy of the Outward Education; innovations in National Curriculum for Outdoor Education; an exposure to various school programs incorporating Outdoor Education; and an examination of technical skills required in this field. Practical fieldwork experiences on a regular basis also form part of this course.

### EDGP911 Project for EDGP910

Autumn Wollongong Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

### EDGP912 Facilitation Techniques in Outdoor Education

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Contact hrs: 35hrs This subject is a complementary blend of theory and practice to highlight the various leadership, and management styles evident in outdoor education. Facilitation and processing techniques incorporated into outdoor education programs in a variety of pedagogical contexts will be examined. Specific content will explore various philosophies and methodologies used in adventure-based outdoor education programs and enable students to delineate common elements of individual facilitation techniques. Practical fieldwork will be used as a vehicle to integrate theory and practice. A variety of learning experiences will be presented which will enable students to gain an insight into how Outdoor Education is used as a catalyst for social and personal development.

### EDGP913 Project for EDGP912

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is an optional project component subject taken in conjunction with EDGP912 and not available separately. The 2 cp Project extends the opportunity to study the issues of EDGP912.

### EDGP924 Young People and Health

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: EDGA924

**Subject Description:** This subject will address issues associated with young people's health from a critical perspective, drawing on social and cultural theory and research in the area. It will provide participants with the knowledge and skills to evaluate the different positions on young people's health and to develop the capacity to critically assess the substantial amounts of information available in academic and popular writings on the topic. Topics covered in the subject will include: youth as a relational concept; health issues facing young people today; 'risk' and young people; globalisation and youth health; approaches to youth health; youth health services; schools and youth health. This subject replaces EDGA924 in the postgraduate PE/Health program.

### EDGP930 Theoretical and Practical Bases of Coach Education

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Contact hrs: 3hrs per week.

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Arts	This subject analyses current coaching theory related to pedagogical issues, time management and overseas developments in coaching. Students undertake an indepth analysis of the discipline areas applied to coaching. A conceptual framework of coaching both in Australia and overseas will be used with practical implications related to practice sessions in a variety of sport environments.		
Commerce	<b>EDGP931 Project for EDGP930</b> Autumn Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This is an optional project component subject taken in conjunction with EDGP930 and not available separately. The 2 cp Project extends the opportunity to study the issues of EDGP930.		
Creative Arts	<b>EDGP932 Issues In Coach Education and Sport Management</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is designed to provide students with an examination of current issues. Attention will be given to current international issues such as administrative structures, advanced coaching models, theoretical and practical bases of talent identification, government policy, and research in coach education and sport administration. They will undertake a review of literature in one chosen area presenting the outcomes of the research in a seminar.		
Education	<b>EDGP933 Project For EDGP932 - Issues In Coach Education and Sport Management</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None		
Engineering	<b>EDGP934 Culture Politics of Sport, Leisure and Physical Education</b> Autumn Wollongong Flexible <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will examine contemporary debates and issues in the areas of sport, leisure and physical education from a critical perspective. It will examine how the knowledge, values and practices associated with these areas are constituted in the context of specific social, economic, political and cultural relations and how the practices associated with these areas in turn shape social knowledge and values. The subject will draw on a range of methodologies and resources including media and document analysis, the interrogation of statistical reports and contemporary mythologies about sport and physical activity; current feminist and masculinity research on sport, leisure and physical education; contemporary theories of leisure as consumption; youth studies and leisure and physical activity;		
Graduate School of Business			
Health & Behavioural Sciences			
Informatics			
Law			
Science			

<b>EDGP935 Leadership and Management in Physical Education, Sport &amp; Recreation</b> Spring Wollongong Flexible <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This core subject provides students with the range of foundational understandings essential for understanding the management function in education and training organisations. The content topics are selected to introduce the main areas of intellectual understanding which underpin 'present' oriented effective management by developing conceptual understandings of: adult education and training; staff development; information systems; financial management; personal management skills- as they contribute to the management function of educational organisations. As the course is related to educational management, it takes an overarching view of the challenges and issues facing incumbent or aspiring educational managers from different perspectives including physical education, sport and recreation. Students will be able to explore issues of relevance and application to their specific context.		
<b>EDGP990 Practicum in a Learning Environment</b> Autumn Wollongong Flexible Spring Wollongong Flexible <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Students will design, implement and evaluate a program of work in a practical environment. This will extend over 30 hours of contact during the session at a worksite of choice. Reflective evaluation will take place on all of the practicum resulting in a critical analysis. All students will meet on a regular basis to discuss issues related to the practicum.		
<b>EDGP991 Project for EDGP990</b> Autumn Wollongong On Campus Spring Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This is an optional project component subject taken in conjunction with EDGP932 and not available separately. The 2 cp Project extends the opportunity to study the issues of EDGP990.		
<b>EDGR911 Teaching Reading</b> Autumn Wollongong Flexible Spring Wollongong Flexible Autumn Wollongong Distance Spring Wollongong Distance <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will examine the nexus between reading theories and practices. Topics to be studied include: reading and its relationship to language and learning; models of reading instruction and practices; history of reading policies and methods; learning to read and learning through reading;		



sociocultural relationships between the reader and the written texts; reading for different purposes; evaluation of reading; the reading-writing connections and current debates around reading instruction.

### **EDGR912 Teaching Writing**

Autumn	Wollongong	Distance
Spring	Wollongong	Distance
Spring	Wollongong	Flexible
Autumn	Wollongong	Flexible

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will examine the nexus between writing theories and practices. Topics to be studied will include: the writing process and its relationship to language and learning; models of writing instruction; learning to write and learning through writing; the role of context, purpose and audience in shaping written genres; the writing/reading connection - specifically spelling, grammar and the role of editing and proofreading, and the evaluation of written texts.

### **EDGS910 Learning Theories and Exceptionality**

Autumn	Wollongong	On Campus
Autumn	Wollongong	Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject explores a range of learning theories and their application to children with special needs. Topics include: behaviourism; Piaget and critiques of his theory; socio-cultural accounts of learning; information processing perspectives including the development of metacognition and self-regulation; the relationships among language, learning and thought; and issues in the assessment of intelligence.

### **EDGS911 Project in Exceptional Education Practices**

Autumn	Wollongong	Flexible
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**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject builds on the theoretical perspectives gained from the subject, Learning Theories and Exceptionality. It provides the opportunity for students to explore more deeply a particular learning theory and its application to children with special needs. Students will select one theoretical perspective and then complete a project related to the practical application of that theory. The project may take the form of a case study, a curriculum plan or an evaluation study. Projects will be determined in consultation with the lecturer.

### **EDGS912 Contemporary Perspectives Education of Students with Diverse Needs**

Spring	Wollongong	On Campus
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**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will critically examine current philosophical and policy issues

related to the education of students with special needs, including gifted children. The link between theoretical frameworks and practical applications will be explored with a particular focus on the impact of current theories on change processes in special education.

### **EDGS913 Project in Contemporary Perspectives**

Spring	Wollongong	On Campus
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**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject builds on the theoretical perspectives gained from the subject, Contemporary Perspectives in the Education of Students with Diverse Needs. It provides the opportunity for students to explore more deeply a particular issue related to policy or programming for students with special needs. Students completing the project will select a topic in consultation with the lecturer. The project may take the form of a case study, a curriculum plan or an evaluation study.

### **EDGS914 Assessment and Instruction of Individuals with Moderate/Severe Needs**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject aims to develop basic skills in assessment, program planning, program implementation and evaluation in relation to students with special educational needs. The principles of effective teaching and curriculum modification will be addressed. While a range of teaching approaches will be reviewed, the emphasis will be on those which have strong empirical support for their effectiveness.

### **EDGS915 Programs for Students with Learning Difficulties**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will provide students with the opportunity to investigate the educational needs of one particular group of students, and to evaluate the efficacy of current responses to their educational needs. Students will draw upon understandings and skills developed in EDGS914 which is a pre- or co-requisite for this subject.

### **EDGS916 Models of Behaviour Management**

Spring	Wollongong	On Campus
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**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines a range of approaches to behaviour management and the theoretical principles upon which they are based. Problems associated with non school attendance, oppositional disorders, attention deficit disorders and other commonly occurring behaviour disorders are critically examined within the context of increasing academic engaged time and developing social and conflict resolution skills.

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	Science

Arts	<b>EDGS917 Programming for Behaviour Management</b> Spring Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will build on the conceptual understandings and skills developed in EDGS916 and involve the development of a schoolwide behaviour management plan for a nominated educational setting. It will incorporate an analysis of the function of schools, the causes of inappropriate behaviour and the role of the teacher in guiding student behaviour.
Commerce	
Creative Arts	<b>EDGS918 Approaches to Reading Difficulties: Theories and Strategies</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will engage students in a critical review of current empirical research in the area of reading difficulties. Theoretical and methodological aspects will be considered.
Education	
Engineering	<b>EDGS919 Reading Difficulties: Program Design and Implementation</b> Autumn Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> EDGS918 <b>Subject Description:</b> This subject will engage students in the practical implementation of current theories regarding the identification and remediation of reading difficulties. Students will be required to work with a student with reading difficulties for a period of 6–8 weeks. This will involve pre- and post-assessment tasks and designing and implementing an appropriate instructional program.
Graduate School of Business	
Health & Behavioural Sciences	<b>EDGS920 Language and Communication Difficulties: Theory and Practice</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject examines the major causes of language and communication difficulties. An overview of the topic will include an historical perspective which indicates shifts in issues such as identification, classification and categorization. Specific language difficulties associated with autism, cerebral palsy, hearing impairment, intellectual impairment and learning disabilities will be examined. Assessment of communication difficulties and evaluation of a range of educational strategies will conclude the subject.
Informatics	
Law	
Science	<b>EDGS921 Language-Related Learning Difficulties: A Case Study</b> Spring Wollongong On Campus <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject examines the

impact of language-related learning difficulties on academic performance. Students will analyse the needs of a child with such difficulties and make recommendations for compensatory teaching practices to enhance classroom success.

#### **EDGS922 Teaching Gifted Students**

Autumn Wollongong On Campus  
Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will identify and critically examine the current issues related to the education of gifted students. It will also prepare teachers to meet effectively the needs of such students through curriculum modification and application of special educational strategies. Topics will include: definition and identification issues; instructional models; educational strategies; creativity and thinking skills; counselling needs; special populations; and the implications of policy on educational practice.

#### **EDGS923 Project in Gifted Education**

Autumn Wollongong On Campus

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject builds on the theoretical perspectives gained from the subject, Teaching Gifted Students. It provides the opportunity for students to explore more deeply a particular issue related to policy or programming for gifted students. Students completing the project will select a topic in consultation with the lecturer. The project may take the form of a case study, a curriculum plan or an evaluation study.

#### **EDGS924 Giftedness in Special Populations**

Spring Wollongong On Campus

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Contact hours: 3 hrs/week x 9  
This subject will critically examine the needs of special populations of students who are generally under-represented in programs for gifted children. Students will engage in analysing and evaluating alternative forms of assessment and developing appropriate strategies for curriculum design and delivery. Possible focus groups will include: Aboriginal children, ethnic minority children, low SES, girls, underachievers, preschoolers, prodigies, and students with emotional difficulties, physical or learning disabilities.

#### **EDGS925 Project in Dual Exceptionality**

Spring Wollongong On Campus

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject builds on the theoretical perspectives gained from the subject, Giftedness in Special Populations. It provides the opportunity for students to explore more deeply a particular issue related to policy or programming for gifted students with other special needs related to their

gender, ethnicity, or disability. Students completing the project will select a topic in consultation with the lecturer. The project may take the form of a case study, a curriculum plan or an evaluation study.

### **EDGT917 English Language: Learners Problems**

EDU Intake Nov	Wollongong	Distance
Autumn Wollongong	On Campus	
EDU Intake Feb	Wollongong	Distance
EDU Intake June	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is an introduction to the nature of the English language and the typical problems experienced by non-native speakers of English. It will canvass the 'basics' of English grammar and vocabulary, from word classes (nouns, verbs, adjectives, etc) through to the structure of sentences. It is aimed primarily at those who are interested in becoming teachers of English to second language learners in Australia or abroad. It will assist participants in consolidating their own knowledge about English and in diagnosing learners' problems. This subject also intended as a guide to teaching English grammar. It is not intended as a remedial English course for participants in the subject..

### **EDGT920 Practicum II**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

### **EDGT921 Teaching Reading to Second Language Learners**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject explores the nature of reading process and examines the characteristics of ESL/EFL readers with a focus on instructional techniques and materials useful in improving the learners' reading proficiency. It provides guidance in the development and implementation of an interactive approach to teaching reading.

### **EDGT922 The English Sound System**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** For those teaching English as a second language, a knowledge of how the English sound system works is essential, not only to help students' pronunciation but also to improve their listening, reading and writing skills. This subject will cover the pronunciation of individual sounds, combinations of sounds, stress patterns and intonation.

### **EDGT923 Teaching Grammar and Vocabulary**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** When teaching a second or foreign language, it is important to know a variety of techniques for teaching and assessing grammar and vocabulary. This subject will familiarise students with current views on how to teach grammar and vocabulary and how to select activities that are appropriate to the learning context and the learners' age and level of proficiency. The selection of relevant textbooks will also be considered.

### **EDGT924 Teaching Listening to Second Language Learners**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides an introduction to knowledge and skills needed to teach listening. It aims to help students to develop a deeper understanding of listening as an interactive process and from this perspective to develop techniques and procedures for teaching effective listening strategies. The principles of designing various assessment listening tasks will be covered.

### **EDGT925 Teaching Writing to Second Language Learners**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject focuses specifically on teaching ESL/EFL writing skills. It explores the process of second language writing as a foundation for work on the evaluation and development of curricula, methods and tests used in the teaching and assessment of writing skills.

### **EDGT926 Exploring Genres**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In order to participate successfully in academic and social contexts, learners of English need to be able to argue, discuss, explain, recount, describe, persuade and so on. In learning to create and comprehend genres such as exposition, reviews and stories, students are learning to use English to achieve their purposes in a variety of situations. This subject will examine the social purposes for which we use language and how texts are structured in order to achieve these purposes.

### **EDGT927 Managing TESOL Programs**

*Not on offer in 2007*

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** TESOL professionals are often called upon to take a leadership role and manage programs of study – coordinating ESL programs in schools, taking on the role of Director of Studies in ELICOS courses, providing professional development to colleagues, or even starting their

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Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	own English tuition schools. This subject provides a brief introduction to the principles and practicalities of leadership and management in such situations.																	
Commerce	<b>EDGT928 Teaching English in International Contexts</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> TESOL has grown into a flourishing profession where the teachers are continuously exposed to a variety of cultures. In the course of cultural contacts, misunderstandings and misconceptions often occur. This subject is designed to better prepare the future TESOL professional to teach English effectively in international contexts. It offers a deeper understanding of cultural, linguistic and educational differences so as to help future teachers become more sensitive to social-cultural issues involved in teaching English in an international context. Students will have opportunities to familiarise themselves with the employment prospect in various countries. However, the major focus of the subject will be on helping the students develop skills and strategies that will allow them to perform appropriately and professionally in international contexts.																	
Creative Arts																		
Education																		
Engineering	<b>EDGT929 Teaching Speaking to Second Language Learners</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Oral fluency is regarded as key to the learning of a second language. This subject will look at the nature of oral interaction and how it fosters language learning. It will also consider the role of oral presentations and other uses of spoken language. Assessment of spoken language will also be canvassed.																	
Graduate School of Business																		
Health & Behavioural Sciences	<b>EDGT930 Methodology in Second Language Teaching</b> <table><tr><td>Autumn</td><td>Wollongong</td><td>On Campus</td></tr><tr><td>EDU Intake Nov</td><td>Wollongong</td><td>Distance</td></tr><tr><td>EDU Intake Feb</td><td>Wollongong</td><td>Distance</td></tr><tr><td>EDU Intake June</td><td>Wollongong</td><td>Distance</td></tr><tr><td>EDU Intake Sep</td><td>Wollongong</td><td>Distance</td></tr></table> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: EDUE319 <b>Subject Description:</b> The subject requires students to explore their own and others' experiences of language teaching and learning and to research the general principles of language teaching, drawing on knowledge in the field of second language acquisition. The subject covers approaches to second language teaching and learning: grammar/ translation, audiolingualism, communicative language approaches and more recent task- and genre-based approaches. It also explores the theories of language and learning underpinning these and the issues in the implementation of approaches. It addresses issues of assessment, planning and curriculum design and programming in relation to teaching children, teenagers and adults in second or foreign language contexts.			Autumn	Wollongong	On Campus	EDU Intake Nov	Wollongong	Distance	EDU Intake Feb	Wollongong	Distance	EDU Intake June	Wollongong	Distance	EDU Intake Sep	Wollongong	Distance
Autumn	Wollongong	On Campus																
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EDU Intake Feb	Wollongong	Distance																
EDU Intake June	Wollongong	Distance																
EDU Intake Sep	Wollongong	Distance																
Informatics																		
Law																		
Science																		

<b>EDGT931 Teaching Speaking and Listening</b>			
EDU Intake Nov	Wollongong	Distance	
Autumn	Wollongong	On Campus	
EDU Intake Feb	Wollongong	Distance	
EDU Intake June	Wollongong	Distance	
EDU Intake Sep	Wollongong	Distance	
<b>Credit Points:</b> 6			
<b>Pre-requisites:</b> None			
<b>Co-requisites:</b> None			
Exclusions: EDGT924 or EDGT929			
<b>Subject Description:</b> In EDGT931 students will gain an understanding of spoken discourse, the nature of spoken interaction, the differences between speech and writing and the ways in which oral fluency fosters language development. The subject also addresses the different ways in which spoken discourse can be studied covering critical and other traditions of discourse analysis, multimodal and ethnographic approaches. The subject presents an overview of recent research and developments in the teaching of listening and speaking and how these areas can be taught in an integrated way making use of computer and other technologies and approaches.			

<b>EDGT932 Second Language Literacy</b>			
EDU Intake Nov	Wollongong	Distance	
Spring	Wollongong	On Campus	
EDU Intake Feb	Wollongong	Distance	
EDU Intake June	Wollongong	Distance	
EDU Intake Sep	Wollongong	Distance	
<b>Credit Points:</b> 6			
<b>Pre-requisites:</b> None			
<b>Co-requisites:</b> None			
Exclusions: EDGA981, EDGT921 or EDGT925			
<b>Subject Description:</b> This subject will explore the nature of literacy. It will consider the role of literacy within a range of social, cultural, historical and educational contexts. As well it will cover the following: a critical analysis of theories of reading and writing and their relevance for second language literacy development; an analysis of approaches to teaching reading and writing; the relationship between spoken and written language; principles for developing effective literacy programs; strategies for supporting the learning of literacy for ESL/EFL learners at beginner through to advanced levels in adult and school contexts.			

<b>EDGT933 Practicum or Project in TESOL</b>			
Autumn	Wollongong	Flexible	
Spring	Wollongong	Flexible	
EDU Intake Nov	Wollongong	Distance	
EDU Intake Feb	Wollongong	Distance	
EDU Intake June	Wollongong	Distance	
EDU Intake Sep	Wollongong	Distance	
<b>Credit Points:</b> 6			
<b>Pre-requisites:</b> None			
<b>Co-requisites:</b> None			
Exclusions: EDGT920			
<b>Subject Description:</b> This subject is intended for students who want to get an extended experience in teaching and learning in different contexts. It provides a background to teaching ESL or EFL in primary, secondary or adult contexts. Students will undertake observations and teaching in one of these contexts. Students work closely with co-ordinating teachers who are experienced and skilled in supervision. Students			

would carry out situation analyses, develop portfolios of work and evaluate aspects of the teaching and learning they observe. The focus of their evaluation would also involve analysis of current writing and research in the area. Students studying in Australia are usually placed by the Practicum co-ordinator, although students may choose to do their prac in their preferred institution, if approved by the co-ordinator. Students may also opt to undertake a project involving classroom observation and associated tasks by negotiation with the subject co-ordinator.

### EDGT934 Teaching Pronunciation and Prosody

EDU Intake Feb	Wollongong	Distance
EDU Intake June	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance
Spring	Wollongong	On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** EDGT922

**Subject Description:** The subject will provide students with an understanding of the English sound system: of intonation patterns, sentence rhythm and patterns of word stress, of English phonemes and also of features of connected speech such as elision and linking. The subject will also analyse teaching strategies and the development of teaching programs. There will be topics on assessing learners' needs and developing individual and class programs to address specific pronunciation needs.

### EDGT935 Teaching English in International Contexts

EDU Intake Feb	Wollongong	Distance
EDU Intake June	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance
Spring	Wollongong	Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** EDGT928

**Subject Description:** In EDGT935, students will gain an overview of the changing contexts of English Language Teaching internationally and of the issues relating to English as a global language. There will be a focus on specific issues such as teaching young learners (with the development of English teaching at elementary level) and the use of appropriate methodologies in exam-based systems. Cross-cultural communication skills and issues of culture in language teaching would also be addressed. Students would have the flexibility to research specific countries and key issues that cut across national boundaries.

### EDGT936 Management, policy and curriculum in TESOL

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** EDGT929

**Subject Description:** In EDGT936, students will research educational management and leadership in

terms of English language teaching. The subject will address the impact of education and language policy at national/ international and local levels. It will also cover aspects of protocol and policy development in institutions, staff management and professional development, accountability and evaluation. There will also be a focus on negotiation, managing interpersonal relationships and conflict resolution. Students will explore models of curriculum development in language education and program evaluation.

### EDGT940 Materials and Technology in Second Language Teaching

EDU Intake Feb	Wollongong	Distance
EDU Intake June	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance
Spring	Wollongong	On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is intended as a practical introduction to the selection, development, adaptation and evaluation of a range of materials and media for effective second language teaching. It will examine the nature of the materials/ technologies, including their place in the curriculum, the assumptions underlying them, and the roles of teachers and learners implied by them.

### EDGT976 Text and Context

EDU Intake Feb	Wollongong	Distance
EDU Intake June	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance
Autumn	Wollongong	On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to a functional approach to language, focusing on the functions that English plays in our lives and the language resources that students need to control in order to use English effectively in a range of situations. The model adopted is that of Halliday and colleagues - an approach that underpins several language syllabuses in Australia and internationally. This approach (Systemic Functional Linguistics) looks at the relationship between the texts that we use in our daily lives and the contexts in which these texts are produced. This subject also addresses the classroom applications.

### EDGT983 Assessment in TESOL

EDU Intake Feb	Wollongong	Distance
EDU Intake June	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance
Spring	Wollongong	On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will prepare those involved in teaching English as a Second Language to assess learners' language proficiency. Participants will be introduced to a variety of

Arts
Commerce
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Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science



Arts	assessment approaches and techniques, ranging from informal, classroom based assessment through to high stakes formal tests. Principles of validity and reliability of assessment procedures will be addressed.		
Commerce	<b>EDGT984 Theories of Second Language Learning</b> EDU Intake Feb Wollongong Distance EDU Intake June Wollongong Distance EDU Intake Sep Wollongong Distance EDU Intake Nov Wollongong Distance Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Second language acquisition draws on theories from linguistics, cognitive psychology, psycholinguistics, sociolinguistics and education, and aims to account for processes of learning a second language. This subject is designed to provide students with a solid grounding in the issues and factors prevailing in second language acquisition. Its scope ranges from first language acquisition to different approaches to examining second language development including behaviourist, cognitive, functional, social-cultural and sociolinguistic approaches. These topics provide an appreciation of the complexity of second language learning and how successful learning may be promoted.		
Education	<b>EDGT985 English in Specific Contexts</b> EDU Intake Feb Wollongong Distance EDU Intake June Wollongong Distance EDU Intake Sep Wollongong Distance EDU Intake Nov Wollongong Distance Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is designed to provide an overview of the recent developments in research on English for Specific Purposes (e.g. business, academic and medical etc). It will begin with a review of the emergence of ESP, its historical background and development, and current status in the context of ESL/EFL. This will then be followed by an introduction to discourse analysis and its relevance to ESP. Cross-cultural differences in discourse patterns will also be explored. Students will have opportunities to analyse written and spoken texts used in different ESP contexts. On the basis of the analysis, the subject will turn to a discussion of the implications for ESP course design and evaluation. Although the focus of the subject is on developing students' ability to design an effective ESP program, their engagement with discourse analysis will help heighten their awareness of the genres which might facilitate their growth as writers in academic settings.		
Engineering			
Graduate School of Business			
Health & Behavioural Sciences			
Informatics			
Law	<b>EDGZ900 Introduction to Research Methods in Education</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: EDGA900 <b>Subject Description:</b> Topics to be studied will include		
Science			

principles and epistemology of educational research; descriptive and inferential techniques; case study and action research; problem identification; design and analysis; interpretation of findings; information and computer based technology in research; overview of research paradigms; ethics in education research. A self-study module is also available for students who have difficulty attending the Wollongong campus.

### EDGZ903 Minor Project in Education

EDU Intake Nov Wollongong Distance  
 Autumn Wollongong Flexible  
 Spring Wollongong Flexible  
 EDU Intake Feb Wollongong Distance  
 EDU Intake June Wollongong Distance  
 EDU Intake Sep Wollongong Distance

**Credit Points:** 8

**Pre-requisites:** At least 16 cp in specialisation, and EDGZ900 or EDGZ921.

**Co-requisites:** None

Exclusions: EDGA903

**Subject Description:** This subject is part of the research orientation in the MEd program. It enables a student to explore a research issue in a sustained piece of writing, as preparation for higher degree studies. No project work should be commenced without approval from the Program Co-ordinator or the Head of the Graduate School.

### EDGZ912 Special Research Topic

Autumn Wollongong On Campus  
 Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** EDGA900, EDGZ900, EDGZ921, EDGZ922 or equivalent

**Co-requisites:** None

**Subject Description:** The subject will allow students following a specific specialisation to appraise, extend and apply understanding and skills in their area of professional or academic concern. Students will be required to undertake a critical reading, review and reporting program. Some students may extend their investigation via a small field based inquiry project which will explore the related theory and program issues in a professional setting.

### EDGZ921 Introduction To Research & Inquiry

Autumn Wollongong Flexible  
 Spring Wollongong Flexible  
 Summer 2007/2008 Wollongong Flexible  
 Autumn Wollongong On Campus  
 Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the nature of inquiry in Education and related areas. The subject will assist students in critically appraising reported research in academic contexts, in public contexts such as government reports, and popular contexts such as the media. It will also provide the tools to conduct small project and site-based research and evaluation studies. Specifically the subject will address questions such as: why conduct research? what constitutes 'good' research? how are methodologies and theoretical frameworks for research determined? what are the ethical implications of conducting and

reporting on research? These questions will be explored through tasks and inquiries suited to the backgrounds and interests of students undertaking the subject.

### EDGZ922 Conducting Research & Inquiry

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is designed to provide students with the knowledge and skills to conduct research in the context of Education and related areas. It will examine the process of problem-setting and explore the underlying assumptions of a range of research designs and related methodologies and their practical applications as research technologies will be explored. Students will be introduced to data gathering techniques in the context of their particular backgrounds and research interests.

### EDGZ924 Research Proposal

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** EDGZ922 or equivalent

**Subject Description:** Students will complete a draft introduction, literature review and an outline of their research design for their proposed thesis topic. Opportunity will be given for peer and lecturer critique through draft writing, seminars and web-based discussion. All students will be encouraged to design and trial key data gathering and analysis methodologies that they envisage will be central to their thesis inquiry.

### EDGZ925 Advanced Seminar

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

**Credit Points:** 8

**Pre-requisites:** EDGA900 or EDGZ900 or equivalent

**Co-requisites:** None

Exclusions: EDGA925

**Subject Description:** The Advanced Seminar will allow students to evaluate and extend knowledge in a specific area of education. Students will be required to undertake a critical reading program in this area and extend their work by applying their understanding in a school or community based project which integrates the theory and application. Regular seminars will be presented detailing issues, understandings, progress and final outcome.

### EDGZ926 Professional Project

Annual	Wollongong	Flexible
Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject takes the form of a professional project which involves students identifying issues, researching the literature for recent information and presenting on current issues

in their professional area; and the development and implementation of a project which would make a contribution to their local community of practice.

### EDGZ951 Poststructuralist / Postmodernist Research

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** EDGZ922 or equivalent

**Subject Description:** This module will examine the potentials of postmodern and poststructuralist research in the context of educational research. It will assist students in exploring the theoretical resources on which such research draws and provide opportunities to discuss issues, clarify concepts and apply understandings to research problems.

### EDGZ952 Interviews As Research Method

Spring	Wollongong	Flexible
Autumn	Wollongong	Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** EDGZ922 or equivalent

**Subject Description:** This module will examine the ways in which interviews with one or more people can be used as a research tool to understand the way in which people construct meanings about themselves, their world and other people in it. The subject will examine the ethical and pragmatic issues associated with all stages of the process: that is in choosing participants, designing questions, conducting interviews, and interpreting them and representing these interpretations in research writing.

### EDGZ953 Correlation Research

Autumn	Wollongong	Flexible
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**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This module will assist students in developing skills in the answering of questions about data which are essentially correlational in nature. Questions suggesting correlational analysis are typically phrased as 'Is there a relationship between self esteem and performance?' or 'Can we predict (model) performance based on gender, self esteem and school type?'. The primary techniques used for such analysis and covered in this module include correlation, regression, multiple regression and multi-level modelling. Students will be introduced to the process of fitting models including interaction terms, checking assumptions, selecting between models, interpretation of output and writing up results for publication.

### EDGZ954 Evaluation Research

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This module will examine the range of approaches in the broad area of evaluation research. The overview will examine what can be evaluated and the forms of evaluation available to undertaking evaluation activities in their own professional life, programs, in organisation they work or are contracted to investigate. The activities in the

Arts
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Education
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Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	unit will include readings from the text, discussions on the web and a small hands-on project. The project could be located in a community, professional setting or related to your own professional practice.			on interpretations of discourse. Students will be encouraged to apply their understandings of these perspectives to the conceptualisation of their research problem and the application of discourse analysis.		
Commerce	<b>EDGZ955 Developing Grounded Theory In Qualitative Research</b> Autumn Wollongong Flexible Spring Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This module will explore what the research literature claims 'grounded theory' development is and the methodology used in order to develop it. It will examine the relationship between grounded theory development, reviewing of the literature in the field of study and the qualitative research methods used in the data collection and analysis. Finally it will examine when and why one might use grounded theory methodology.			<b>EDGZ959 Questionnaire Construction</b> Autumn Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This module will examine the ways in which the questionnaire can be used as a research tool to understand the way in which people construct meanings about themselves, their world and other people in it. The subject will examine the ethical and pragmatic issues associated with all stages of the process: that is, in choosing participants, designing questions, administering the questionnaire, setting up the data for analysis and representing the analysis in research writing.		
Creative Arts						
Education	<b>EDGZ956 Research Methods In Language Education</b> Autumn Wollongong Flexible Spring Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This module will familiarise students with a range of research methodologies employed in the field of language education (in particular, TESOL and literacy studies). Students will be provided with a collection of readings dealing with research agendas for language education, current issues, the role of theory, and approaches to data collection and analysis (case study, observation, experiments, introspection, action research, statistical analysis, and so on). Students will also critically examine journal articles reporting on the results of different types of studies.			<b>EDGZ960 Case Study Research</b> Autumn Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This module will examine the rationale for selecting a case study approach to research, the various purposes for which a case study is appropriate, and the basic types of case studies. The latter includes, but is not limited to, historical case studies, ethnographic case studies, oral histories, and clinical cases. Multiple case study approach will also be considered. Finally, the module will explore the design of case studies and the associated data collection and analysis tools.		
Engineering						
Graduate School of Business				<b>EDGZ965 Vygotskian Studies in Education</b> Autumn Wollongong Flexible Spring Wollongong Flexible <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will provide postgraduate students with knowledge of modern perspectives on teaching and learning derived from the theory of Vygotsky. The aim of the subject is to develop understanding of the ways that the Vygotskian perspectives can be applied to conducting educational research. The theoretical perspectives treated will include: communities of practice, situated and distributed cognition, household funds of knowledge, activity theory and dynamic assessment. In addition, research methods, which are consistent with Vygotskian approach, will be discussed. These will include: ethnographic study, development research and other relevant qualitative research methods.		
Health & Behavioural Sciences	<b>EDGZ957 Feminist Research</b> Autumn Wollongong Flexible Spring Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This module is designed to provide students with an introduction to feminism and feminist scholarship. A variety of readings that focus on issues associated with feminist theory, research and methodology are provided as a basis for discussion and written assessment. The challenge for students is to develop an informed perspective in this area so that they can construct their own frameworks for defining the nature of feminist research.					
Informatics						
Law	<b>EDGZ958 Discourse Analysis</b> Autumn Wollongong Flexible <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This module will introduce discourse analysis and its application in educational research. The module will consider the range of approaches to discourse analysis and examine the influence of contemporary philosophical perspectives					
Science						



# Faculty of Engineering

## Member Units

School of Civil, Mining and Environmental Engineering

School of Engineering Physics

School of Mechanical, Materials and Mechatronic Engineering

## Degrees Offered

### Research

Doctor of Philosophy

Master of Engineering - Research

Master of Science – Research (Physics)

### Coursework

Master of Engineering

- Civil Engineering
- Environmental Engineering
- Materials Engineering
- Mechanical Engineering
- Mining Engineering
- Mechatronics

Master of Engineering Practice

Master of Engineering Management

Master of Engineering Asset Management

Master of Welding Engineering

Master of Medical Radiation Physics

Graduate Diploma in Engineering

Graduate Diploma in Materials Welding and Joining

Graduate Diploma in Medical Radiation Physics

Graduate Diploma in Science (Physics)

Graduate Certificate in Engineering

Graduate Certificate of Engineering Asset Management

Graduate Certificate in Rolling Stock Engineering

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).

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## Doctor of Philosophy

Arts	Testamur Title of Degree:	Doctor of Philosophy
	Abbreviation:	PhD
	Home Faculty:	Faculty of Engineering
	Duration:	3 years full-time or part-time equivalent
Commerce	Total Credit Points:	48 per year
	Entry Requirements:	Bachelor degree in a relevant discipline with Honours Class II, Division 2 or higher.
	Delivery Mode:	On campus
	Starting Session(s):	Autumn/Spring
Creative Arts	Location:	Wollongong
	UOW Course Code:	201
	CRICOS Code:	001245D

### Overview

Doctor of Philosophy (PhD) candidates undertake in-depth research in order to make an original contribution to the body of knowledge in their area of interest. This qualification can lead to, or enhance an academic career, and is also highly regarded by public and private sector employers. A thesis containing the candidate's research will be presented for external examination at the end of the study.

Current research areas are listed below:

Civil Engineering

- Steel and concrete structures
- Composite steel-concrete structures
- Deepwater oil and gas riser design
- Bridge engineering
- Ecologically sustainable structural design
- Solid and rock mechanics
- Foundation engineering, including railways
- Slope stability and reliability analysis
- Soft ground improvement technology
- Reinforced earth
- Dam and embankment engineering
- Finite element and other numerical methods
- Structural dynamics
- Cementitious and advanced materials for construction
- Flood studies, hydraulics and hydrology
- Water quality engineering
- Geo-environmental studies
- Flow and sediment transport in channel junctions

Environmental Engineering

- Advanced membrane treatment processes
- Agricultural waste treatment and management
- Ballast water treatment
- Bioenergy production and bioreactors
- Electrocoagulation
- Environmental geotechnology
- Environmental hydraulics and unit processes
- Environmental pollution control modelling
- Groundwater contaminant transport and modelling
- Integrated water recycling and reuse

- Recycling and solid waste management
- Remote area water treatment with renewable energy
- Removal of trace contaminants
- Risk assessment of wastewater reuse projects
- Soil erosion and sediment transport
- Supplementary water supply systems
- Treatment and drying of residuals for reuse
- Urban water quality process and modelling
- Water quality management and modelling of catchments, rivers and lakes.

#### Materials Engineering

##### Steel Metallurgy:

- Peritectic phase transformation: mechanism and kinetics
- Development of in-situ observation techniques
- Kinetics of phase transformations in zincalume alloy systems
- Property/microstructure relationships
- Process optimisation in direct reduction of iron
- Thermo-mechanical processing, including HSLA steels
- Corrosion of steelmaking refractories
- Slag properties and behaviour

##### Superconducting and Electronic Materials:

- Theory and mechanism of superconductors
- Phase relation, phase evolution and chemistry of superconductors
- Single crystal growth and study of intrinsic properties
- Fabrication of bulk, wires and tapes superconductors
- Critical current density, transport mechanism and flux pinning
- Studies on structure, microstructure and stability
- Colossal magnetoresistance materials
- Spintronic materials
- High energy batteries for electric vehicles
- Solid-state rechargeable lithium batteries for telecommunication and portable electronic devices
- Developing new cathode materials for lithium-ion batteries using Australian mineral resources
- Investigation of nano-materials for use in lithium rechargeable batteries
- Composite cathode materials for lithium ion batteries using chemical coating technique
- Hydrogen storage materials
- Nickel-metal hydride batteries
- Processing of thin films
- Investigation of superconductor thin films
- Nanofabrication of novel multilayer materials
- Coated conductors
- Nanostructure of electronic materials
- Ceramic and Refractory Materials:
- Sintering kinetics
- High temperature degradation
- Extrusion of resin-bonded ceramics
- Processing of refractories
- Intelligent Polymers:
- Artificial muscles
- Chemical and physical sensors
- Electronic textiles

##### Polymer Materials:

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Arts	<ul style="list-style-type: none"> <li>– Polymer coating adhesion</li> <li>– Mechanical properties of polymer coatings</li> <li>– Surface properties of polymers</li> </ul>
Commerce	<p>Nano-materials:</p> <ul style="list-style-type: none"> <li>– Synthesis and characterisation of carbon nanotubes</li> <li>– High energy ball milling</li> <li>– Structure and properties of nanocrystalline materials</li> </ul> <p>Welding and Joining/Surface Engineering:</p> <ul style="list-style-type: none"> <li>– Structure and properties of welded metals</li> <li>– Weld metal cracking</li> <li>– Post weld heat treatment</li> </ul>
Creative Arts	<ul style="list-style-type: none"> <li>– Weldability of creep resistant steels</li> <li>– Brazing and diffusion bonding</li> <li>– Fusion welding of coated steels</li> <li>– Surface engineering of materials</li> </ul>
Education	<ul style="list-style-type: none"> <li>– Wear and surface property testing</li> <li>– Physical vapour deposition processing of metals</li> <li>– Ion implantation</li> <li>– Microwave processing of materials</li> <li>– Solidification</li> </ul>
Engineering	<ul style="list-style-type: none"> <li>– Welding automation</li> <li>– Welding process control</li> <li>– Welding fume dispersion and control</li> <li>– In process monitoring</li> <li>– Laser hybrid welding</li> <li>– Magnetically impelled arc butt welding</li> </ul>
Graduate School of Business	<p>Special Materials Research and Technology</p> <ul style="list-style-type: none"> <li>– Nanostructural and high surface area materials produced by mechano-chemical methods</li> <li>– Plasma assisted mechano-synthesis and processing</li> <li>– Solid/solid, solid/liquid and solid/gas reaction chemistry</li> </ul>
Health & Behavioural Sciences	<ul style="list-style-type: none"> <li>– Super-hard materials, glassy metals and metal matrix composites</li> <li>– Synthesis of MEMS materials by advanced processing techniques</li> <li>– Electric discharge assisted, rapid reduction processes</li> <li>– Plasma assisted synthesis of metal hydrides</li> <li>– Iron-based shape memory alloys</li> <li>– Copper based shape memory alloys</li> </ul>
Informatics	<ul style="list-style-type: none"> <li>– Crystallography of martensitic transformations</li> <li>– Microwave synthesis of non-oxide functional ceramics</li> <li>– High temperature materials processing</li> <li>– Rapid solidification processing</li> </ul>
Law	<p>Mechanical Engineering (includes Mechatronics)</p> <p>Applied Mechanics:</p> <ul style="list-style-type: none"> <li>– Bio-mechanics</li> <li>– Solid mechanics</li> <li>– Computational fluid mechanics</li> </ul>
Science	<ul style="list-style-type: none"> <li>– Jet cooling in industrial applications</li> <li>– Finite element analysis</li> <li>– Natural and hybrid ventilation of buildings</li> <li>– Industrial ventilation systems</li> <li>– Renewable energy systems</li> </ul>

- Wave energy conversion
- Offshore structures
- Small wind energy systems
- Mechanical engineering design
- Heavy vehicle and rail dynamics
- Railway engineering
- Rolling mill technology
- Solar thermal system analysis and design
- Solid mechanics of elastic and magneto- elastic bodies
- System identification and control
- Tribology-bearing friction and wear
- Alternative fuels
- Novel IC engines

#### Manufacturing and Mechatronics:

- Sensors and actuators
- Smart materials and structures
- MEMS and Nanotechnology
- Laser welding and surfacing
- Automated pipe welding
- Robotic repair technology
- Novel control of arc processes
- Virtual reality weld simulator
- Magnetic impelled arc butt-welding
- Automated QC and reliability engineering
- Chip control in automated manufacture
- Expert/knowledge system in automated machining
- Intelligent manufacturing systems
- Monitoring/diagnosis of manufacturing processes and machinery conditions
- Integrated CAD/CAM
- Maintenance management

#### Bulk Materials Handling:

- Prediction of bin wall loads and flow rates
- Feeding and discharging systems including pressurised systems
- Dust and fume control
- Pneumatic conveying
- Computer simulation of discrete particles
- Biomass handling and feeding systems
- Fluidisation and deaeration

#### Mining Engineering

- Rock mechanics
- Mine simulation, planning and design
- Mine safety and mine ventilation
- Geostatistics
- Computer applications in mining engineering

#### Physics

- Astronomy and astrophysics
- Observational studies of star formation
- Comparative planetology: Mars and Venus
- Asteriod and cometary mining
- Laser spectroscopy

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- |                               |   |
|-------------------------------|---|
| Arts                          | <ul style="list-style-type: none"> <li>– Scattering of light by solids</li> <li>– Solid state spectroscopy of impurities in semiconductors</li> <li>– Studies of electronic wave functions in solids</li> <li>– Theoretical astrophysics – galaxy formation, gas dynamics</li> <li>– Terahertz optoelectronics</li> </ul> |
| Commerce                      | <ul style="list-style-type: none"> <li>– Spintronics</li> <li>– Thermionics</li> <li>– Quantum transport in nanostructures</li> <li>– Resonant tunnelling</li> <li>– Far-infrared spectroscopy</li> </ul>   |
| Creative Arts                 | <ul style="list-style-type: none"> <li>– Thermal transport in layered structures</li> <li>– Many body theory</li> <li>– Zeeman spectroscopy</li> <li>– Piezo spectroscopy</li> </ul>  |
| Education                     | <p>Medical Radiation Physics:</p> <ul style="list-style-type: none"> <li>– Semiconductor radiation detectors</li> <li>– Radiation transport and dosimetry</li> <li>– Radiation therapy</li> <li>– Medical imaging and radiology</li> <li>– PET and SPECT instrumentation</li> </ul>                                       |
| Engineering                   | <ul style="list-style-type: none"> <li>– High Energy Physics Detectors</li> <li>– Proton Therapy</li> </ul>   |
| Graduate School of Business   |   |
| Health & Behavioural Sciences |   |
| Informatics                   |   |
| Law                           |   |
| Science                       |   |

## Master of Engineering - Research

Testamur Title of Degree:	Master of Engineering - Research
Abbreviation:	MEng - Res
Home Faculty:	Faculty of Engineering
Engineering Disciplines:	Civil, Environmental, Materials, Mechanical, Mechatronics, Mining
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Entry Requirements:	Relevant degree with Honours Class III or above
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1303
CRICOS Code:	042554G

### Overview

The Master of Engineering degree by research is intended for engineers qualified and interested in specific engineering problems. The degree comprises a 48 credit point research thesis and 24 credit points of coursework. Coursework comprises the six credit point subject ENGG951 Engineering Project Management, plus 18 credit points of elective subjects chosen from the relevant Master of Engineering program.

Advanced standing for some or the entire coursework component may be granted on demonstrated research skills. Evidence of these skills would normally be a Bachelor of Engineering (Honours Class II Division 2 or better) and/or an appropriate Masters Coursework degree.

For current research areas refer to the PhD program above.

## Master of Science - Research

Testamur Title of Degree:	Master of Science – Research
Abbreviation:	MSc – Res
Home Faculty:	Faculty of Engineering
Engineering School:	Engineering Physics
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Entry Requirements:	Degree in Physics, or a Graduate Diploma in Science (Physics) or approved equivalent qualification
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1304
CRICOS Code:	042555F

### Overview

The Master of Science degree by research equips candidates with superior skills in research design and methodology in preparation for leadership roles in their chosen field. The degree comprises a 48 credit point research thesis and 24 credit points of coursework. Advanced standing for some, or all of the coursework component may be granted on demonstrated research skills.

Students entering with a degree below Honours Class II, Division 2 will complete the 48 credit point thesis and 24 credit point combination of subjects chosen from the remaining Graduate Subjects below, and the list of undergraduate Physics subjects. These subjects will be chosen in consultation with, and approved by the Physics Discipline Advisor.

For current research areas refer to the PhD program above.

### Course Program

Subjects	Credit Points
<b>Core Subjects</b>	
PHYS401 Theoretical Mechanics and Electromagnetism	8
PHYS441 Advanced Astrophysics	4
PHYS444 Quantum Mechanics	8
PHYS446 Solid State Physics	8
PHYS910 Advanced Project in Physics A	6
PHYS946 Advanced Solid State Physics	6
PHYS947 Special Topics in Physics A	6
PHYS948 Physics of Imaging	6
PHYS952 Radiation and Radiotherapy Physics	8
PHYS953 Medical Imaging and Nuclear Medicine	8
PHYS954 Radiobiology and Radiation Protection	8
PHYS960 Advanced Project in Physics B	6
PHYS997 Special Topics in Physics B	6

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## Master of Engineering (Civil Engineering)

Arts	Testamur Title of Degree:	Master of Engineering (Civil Engineering)
	Abbreviation:	MEng
	Home Faculty:	Faculty of Engineering
	Duration:	1 year full-time or part-time equivalent
Commerce	Total Credit Points:	48
	Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from this University, or an approved equivalent qualification
	Delivery Mode:	On Campus
	Starting Session(s):	Autumn/Spring
Creative Arts	Location:	Wollongong
	UOW Course Code:	1403
	CRICOS Code:	042657M

### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

### Course Program

Subjects	Credit Points
Core Subject	
ENGG945      Dissertation	24

#### Elective Subjects

Four 6 credit point 900 level subjects to be agreed with the Head of School of Civil, Mining and Environmental Engineering (or delegated Discipline Advisor), taken primarily from the School and/or ENGG subjects.

Note: Not all subjects may be available in any one year – refer Subject Listing.

## Master of Engineering (Environmental Engineering)

Health & Behavioural Sciences	Testamur Title of Degree:	Master of Engineering (Environmental Engineering)
	Abbreviation:	MEng
	Home Faculty:	Faculty of Engineering
	Duration:	1 year full-time or part-time equivalent
	Total Credit Points:	48
Informatics	Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from this University, or an approved equivalent qualification
	Delivery Mode:	On campus
	Starting Session(s):	Autumn/Spring
	Location:	Wollongong
	UOW Course Code:	1403
Law	CRICOS Code:	042657M

### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.



## Course Program

Subjects	Credit Points
Core Subject	
ENGG945      Dissertation	24
Elective Subjects	
Four 6 credit point 900 level subjects to be agreed with the Head of School of Civil, Mining and Environmental Engineering (or delegated Discipline Advisor), taken primarily from subjects in the School of Civil, Mining and Environmental Engineering and/or ENGG subjects.	
Note: Not all subjects may be available in any one year – refer Subject Listing.	

## Master of Engineering (Materials Engineering)

Testamur Title of Degree:	Master of Engineering (Materials Engineering)
Abbreviation:	MEng
Home Faculty:	Faculty of Engineering
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from this University, or an approved equivalent qualification
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1403
CRICOS Code:	042657M

### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

## Course Program

Subjects	Credit Points
Core Subject	
ENGG945      Dissertation	24
Elective Subjects	
Four 6 credit point 900 level subjects to be agreed with the Head of School of Mechanical, Materials and Mechatronics Engineering (or delegated Discipline Advisor), taken primarily from the School of Mechanical, Materials and Mechatronics Engineering subjects and/or ENGG subjects	
Note: Not all subjects may be available in any one year – refer Subject Listing.	

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## Master of Engineering (Mechanical Engineering)

Arts	Testamur Title of Degree:	Master of Engineering (Mechanical Engineering)
	Abbreviation:	MEng
	Home Faculty:	Faculty of Engineering
	Duration:	1 year full-time or part-time equivalent
Commerce	Total Credit Points:	48
	Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from this University, or an approved equivalent qualification
	Delivery Mode:	On campus
	Starting Session(s):	Autumn/Spring
Creative Arts	Location:	Wollongong
	UOW Course Code:	1403
	CRICOS Code:	042657M

### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

### Course Program

#### Subjects Credit Points

Core Subject

ENGG945      Dissertation 24

Elective Subjects

Four 6 credit point 900 level subjects to be agreed with the Head of School of Mechanical, Materials and Mechatronics Engineering (or delegated Discipline Advisor), taken primarily from the School of Mechanical, Materials and Mechatronics Engineering subjects and/or ENGG subjects.

Note: Not all subjects may be available in any one year – refer Subject Listing.

## Master of Engineering (Mechatronics)

Health & Behavioural Sciences	Testamur Title of Degree:	Master of Engineering (Mechatronics)
	Abbreviation:	MEng
	Home Faculty:	Faculty of Engineering
	Duration:	1 year full-time or part-time equivalent
	Total Credit Points:	48
Informatics	Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from this University, or an approved equivalent qualification
	Delivery Mode:	On campus
	Starting Session(s):	Autumn/Spring
	Location:	Wollongong
Law	UOW Course Code:	1403
	CRICOS Code:	042657M

### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

## Course Program

### Subjects

### Credit Points

Core Subject

ENGG945 Dissertation

24

Elective Subjects

Four 6 credit point 900 level subjects to be agreed with the Head of School of Mechanical, Materials and Mechatronics Engineering (or delegated Discipline Advisor), taken primarily from School of Mechanical, Materials and Mechatronics Engineering subjects and/or ECTE or ENGG subjects.

Note: Not all subjects may be available in any one year – refer Subject Listing.

## Master of Engineering (Mining Engineering)

Testamur Title of Degree:	Master of Engineering (Mining Engineering)
Abbreviation:	MEng
Home Faculty:	Faculty of Engineering
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from this University, or an approved equivalent qualification
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1403
CRICOS Code:	042657M

### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects according to his or her undergraduate background, with project work.

The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

## Course Program

### Subjects

### Credit Points

Core Subject

ENGG945 Dissertation

24

Elective Subjects

Four 6 credit point 900 level subjects to be agreed with the Head of School of Civil, Mining and Environmental Engineering (or delegated Discipline Advisor), taken primarily from School of Civil, Mining and Environmental Engineering subjects and/or ENGG subjects.

Note: Not all subjects may be available in any one year – refer Subject Listing.

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# Master of Engineering Practice

Arts	Testamur Title of Degree:	Master of Engineering Practice
	Abbreviation:	MEngPrac
	Home Faculty:	Faculty of Engineering
Commerce	Engineering Discipline:	Refer to Engineering streams below
	Duration:	1 year full-time or part-time equivalent
	Total Credit Points:	48 (single major); 72 (double major)
	Entry Requirements:	A 4 year Bachelor of Engineering degree
	Delivery Mode:	On campus
Creative Arts	Starting Session(s):	Autumn/Spring
	Location:	Wollongong
	UOW Course Code:	590 (single major); 590A (double major)
	CRICOS Code:	020204M (single major); 053563D (double major)

## Overview

The Master of Engineering Practice has been designed to meet the needs of engineering leaders of the future. This program allows practicing engineers to build on, update and acquire additional knowledge in areas not covered in their first degree.

This is a 48 credit point program. The core program comprises four, 6 credit point subjects. The remaining 24 credit points can be selected from the Engineering Postgraduate subject list; or for students wishing to have a specialisation recorded on their degree, 24 credit points of approved elective subjects from one of the engineering streams listed below.

Students can apply to undertake the Master of Engineering Practice in two streams. Students would complete the core program and two 24 credit point programs of elective subjects. This is a 72 credit point program and would normally take 1.5 to 2 years to complete. Both specialisations would be recorded on the testamur.

With approval of the Course Advisor, students can undertake a 12 credit point dissertation as part of the elective subjects. The dissertation, ENGG940 Dissertation, is a research project allowing students to pursue a particular area in depth.

The dissertation develops skills in information retrieval, project planning and organisation analysis, problem solving, and effective communication of results.

Where insufficient subjects are offered in a particular stream and/or where students are not able to provide assumed knowledge for available electives, the course advisor may substitute ENGG subjects, providing at least three subjects are taken from the stream under consideration.

## Course Program

Subjects	Credit Points
Core Subjects	
ENGG950 Innovation and Design	6
ENGG951 Engineering Project Management	6
ENGG952 Engineering Computing	6
ENGG954 Strategic Management for Engineers and Technologists	6
Elective Subjects – Asset Management	
ENGG953 Modelling of Engineering Management Systems	6
ENGG956 Financial Management for Engineered Assets	6
ENGG957 Project Implementation and Outsourcing	6
ENGG958 Life-Cycle and Risk Management	6
ENGG960 Maintenance Requirements Analysis	6
ENGG961 Systems Reliability Engineering	6
Elective Subjects – Civil Engineering	
CIVL904 Highway Materials	6
CIVL909 Advanced Foundation Engineering	6
CIVL912 Engineering Hydrology	6
CIVL916 Research Topics in Civil Engineering	6

CIVL980	Advanced Computer Applications	6	Arts
CIVL981	Special Topic A	6	
ENVE929	Site Contamination and Remediation Technologies	6	
Elective Subjects – Environmental Engineering			Commerce
ENGG953	Modelling of Engineering Management Systems	6	
ENGG956	Financial Management for Engineered Assets	6	
ENVE923	Industrial Waste Engineering and Cleaner Production	6	Creative Arts
ENVE924	Solid and Hazardous Waste Management	6	
ENVE925	Water Quality Engineering and Management	6	
ENVE926	Air and Noise Pollution Management	6	Education
ENVE927	Environmental Engineering Processes Design	6	
ENVE928	Design of Urban Water Systems	6	
ENVE929	Site Contamination and Remediation Technologies	6	Engineering
ENVE930	Coastal, River and Groundwater Engineering	6	
ENVE931	Membrane Processes and Applications	6	
MECH979	Sustainable Transport and Engine Technology	6	Graduate School of Business
Elective Subjects – Manufacturing Engineering			
ENGG953	Modelling of Engineering Management Systems	6	
ENGG956	Financial Management for Engineered Assets	6	Health & Behavioural Sciences
MATL901	Special Topic in Materials 1	6	
MECH934	Advanced Manufacturing Processes	6	
MECH935	Integrated Manufacturing Systems	6	Informatics
MECH949	Advanced Computer Control of Machines and Processes	6	
MECH950	Advanced Robotics	6	
TBS908	Supply Chain Management	6	Law
TBS926	Manufacturing Management	6	
Elective Subjects – Materials Engineering			
ENGG953	Modelling of Engineering Management Systems	6	Science
ENGG956	Financial Management for Engineered Assets	6	
MATL901	Special Topic in Materials 1	6	
MATL902	Special Topic B	6	
MATL903	Recent Developments in Materials	6	
MATL905	Metallic Materials	6	
MATL906	Ceramic Materials	6	
MATL907	Polymeric Materials	6	
MATL952	Performance of Materials B	6	
MATL972	Selection and Design of Materials	6	
Elective Subjects – Mechanical Engineering			
ENGG953	Modelling of Engineering Management Systems	6	
ENGG956	Financial Management for Engineered Assets	6	
MECH913	Pneumatic Transport of Bulk Solids	6	
MECH918	Sustainable Energy in Buildings	6	
MECH919	Advanced Topics in Mechanical Engineering 1	6	
MECH928	Finite Element Techniques in Mechanical Engineering	6	
MECH934	Advanced Manufacturing Processes	6	
MECH935	Integrated Manufacturing Systems	6	
MECH948	Sustainable Energy Technologies	6	
MECH949	Advanced Computer Control of Machines and Processes	6	
MECH950	Advanced Robotics	6	

Arts	MECH979	Sustainable Transport and Engine Technology	6
	Elective Subjects – Mechatronics		
	ECTE912	DC-Sourced Power Electronics	6
	ECTE925	Industrial Drives and Actuators	6
Commerce	ECTE931	Real-time Computing	6
	ECTE941	Intelligent Control	6
	ENGG953	Modelling of Engineering Management Systems	6
	ENGG956	Financial Management for Engineered Assets	6
Creative Arts	MATL901	Special Topic in Materials 1	6
	MECH935	Integrated Manufacturing Systems	6
	MECH939	Advanced Topics in Mechatronic Engineering	6
	MECH941	Micro/Nano Robotic Systems	6
Education	MECH949	Advanced Computer Control of Machines and Processes	6
	MECH950	Advanced Robotics	6
	Elective Subjects – Mining Engineering		
	MINE902	Advanced Studies in Mining Engineering	6
Engineering	MINE903	Simulation of Mining Operations and Problems	6
	MINE904	Rock Mechanics	6
	MINE905	Environmental Control in Mines	6
	MINE906	Mining Engineering Techniques	6
Graduate School of Business	Elective Subjects – Resource Management*		
	MINE916	Mineral Valuation, Risk Analysis	6
	MINE917	Mineral Economics	6
	MINE918	Commodity Analysis	6
Health & Behavioural Sciences	MINE919	Natural Resource Policy	6
	Elective Subjects – Steel Processing and Products*		
	ENGG931	Steel Products and their Production	6
	ENGG932	Rolling Technology	6
Informatics	ENGG933	Coating Technology	6
	ENGG934	Steelmaking	6
	ENGG935	Casting	6
	Note: Not all subjects available in any one year – refer Subject Listing.		
Law	*Only available on a part-time basis		
Science			

## Master of Engineering Management

Testamur Title of Degree:	Master of Engineering Management
Abbreviation:	MEM
Home Faculty:	Faculty of Engineering
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Entry Requirements:	A Bachelor of Engineering degree or other qualifications together with at least 4 years experience in a senior management position will be considered
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1506
CRICOS Code:	051350M

## Overview

The Master of Engineering Management is aimed at Engineers, and others who see their careers progressing into management. The course provides them with a very strong grounding in some of the most modern management thinking that is applicable to Engineering and Manufacturing Industries. Graduates of this degree will become empowered to work in teams and understand managers from other disciplines including finance, human resources and marketing. They will be equipped to advance their careers into senior managerial positions.

This is a 48 credit point program. The core program comprises five 6 credit point subjects. The remaining 18 credit points can be selected from the elective subjects listed below.

## Course Program

Subjects	Credit Points
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### Core Subjects

ENGG950	Innovation and Design	6
ENGG951	Engineering Project Management	6
ENGG952	Engineering Computing	6
ENGG954	Strategic Management for Engineers and Technologists	6
ENGG956	Financial Management for Engineered Assets	6
ENGG960	Maintenance Requirements Analysis	6

### Elective Subjects

BUSS907*	Electronic Commerce	6
BUSS927*	Human Computer Interaction	6
BUSS952*	Strategic Information Systems Management	6
ENGG953	Modelling of Engineering Management Systems	6
ENGG960	Maintenance Requirements Analysis	6
ENGG961	Systems Reliability Engineering	6
MARK922*	Marketing Management	6
MGMT911*	Organisational Behaviour	6
MGMT915*	Management of Change	6
MGMT940*	Innovation and Entrepreneurship	6
MGMT963*	Management of Occupational Health and Safety	6
MGMT978*	Cross Cultural Management	6
TBS903	Managing People in Organisations	6
TBS904	Marketing Management	6
TBS908	Supply Chain Management	6
TBS950	Quality Management	6

\* Subjects may require prior knowledge. Students should not enrol in these subjects without consultation and approval of the lecturer(s) concerned.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Master of Engineering Asset Management

Arts	Testamur Title of Degree:	Master of Engineering Asset Management
	Abbreviation:	MEngAssetMgmt
	Home Faculty:	Faculty of Engineering
Commerce	Engineering Discipline:	Mechanical Engineering
	Duration:	1 year full-time or part-time equivalent
	Total Credit Points:	48
	Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary institution
	Delivery Mode:	Modular
Creative Arts	Starting Session(s):	Autumn/Spring
	Location:	Wollongong
	UOW Course Code:	1561
	CRICOS Code:	054039E

## Overview

The objective of the program is to ensure continuous improvement in the strategic and tactical response of organisations and their managers, to the management of infrastructure assets. The program provides the knowledge to organise and manage engineered asset costs effectively. From a strategic framework, students progressively address problems in designing and managing assets. This is achieved through a balanced program of subjects in asset management science and engineering, business administration and management and industrial engineering, with emphasis on practical applications. Students learn concepts and techniques by evaluating potential solutions to challenges faced by organisations.

This is a 48 credit point program. The core program comprises six 6 credit point subjects. The remaining 12 credit points can be either two 6 credit point elective subjects from the list below or one 12 credit point dissertation.

## Course Program

Subjects	Credit Points
Core Subjects	
ENGG953      Modelling of Engineering Management Systems	6
ENGG956      Financial Management for Engineered Assets	6
ENGG957      Project Implementation and Outsourcing	6
ENGG958      Life-Cycle and Risk Management	6
ENGG960      Maintenance Requirements Analysis	6
ENGG961      Systems Reliability Engineering	6
Elective Subjects:	
ENGG959      Asset Management System Design	6
TBS903        Managing People in Organisations	6
Or	
ENGG940      Dissertation	12



## Master of Medical Radiation Physics

Testamur Title of Degree:	Master of Medical Radiation Physics
Abbreviation:	MMRP
Home Faculty:	Faculty of Engineering
Engineering School:	Engineering Physics
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Entry Requirements:	Completion of Bachelor of Science or equivalent with Physics as a major study
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1545
CRICOS Code:	035592D

### Overview

Candidates who have completed a Bachelors degree which did not include a relevant major study, will be required to complete additional subjects in Physics as outlined in the Masters Degree regulations. Students who have completed the Bachelor of Medical Radiation Physics from the University of Wollongong, or equivalent specialist course, would be advised to enrol in a Medical Radiation Physics research program. The course consists of a research project and four subjects.

### Course Program

Subjects	Credit Points
Core Subjects	
PHYS951 Medical Physics Research Project	18
PHYS952 Radiation and Radiotherapy Physics	8
PHYS953 Medical Imaging and Nuclear Medicine	8
PHYS954 Radiobiology and Radiation Protection	8
GHMB927 An Introduction to Human Anatomy and Physiology	6

## Graduate Diploma in Engineering

Testamur Title of Degree:	Graduate Diploma in Engineering
Abbreviation:	GDipEng
Home Faculty:	Faculty of Engineering
Engineering Disciplines:	Civil, Environmental, Materials, Mechanical, Mining
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary institution
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	649
CRICOS Code:	009237F

### Overview

The Graduate Diploma in Engineering is intended to provide specialised studies in engineering. It may provide entry to the Masters – Research program for students who do not have the necessary entry qualifications, particularly if studying this discipline for the first time.

Students enrol in one of the following 48 credit point subjects according to their discipline area:

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	Civil Engineering Environmental Engineering Materials Engineering Mechanical Engineering Mining Engineering	CIVL899 Advanced Topics in Engineering ENVE899 Advanced Topics in Engineering MATL899 Advanced Topics in Engineering MECH899 Advanced Topics in Engineering MINE899 Advanced Topics in Engineering
Commerce	<b>Graduate Diploma in Materials Welding and Joining</b>	
Creative Arts	Testamur Title of Degree: Graduate Diploma in Materials Welding and Joining Abbreviation: GDipMWJ Home Faculty: Faculty of Engineering Engineering Discipline: Materials and Mechanical Engineering Duration: 1 year full-time or part-time equivalent Total Credit Points: 48 Entry Requirements: A Bachelor of Engineering degree from a recognised tertiary institution or approved equivalent qualification, prior learning and experience	
Education	Delivery Mode: Flexible Delivery Starting Session(s): Autumn/Spring Location: Wollongong UOW Course Code: CR666 CRICOS Code: N/A	
Engineering	<b>Overview</b> There are 16 modules. Refer to Master of Engineering Practice in Materials Welding and Joining. This course is offered on a flexible delivery basis and is the same as the MEngPrac with the exception of the dissertation which is not required.	
Graduate School of Business	<b>Graduate Diploma Medical Radiation Physics</b>	
Health & Behavioural Sciences	Testamur Title of Degree: Graduate Diploma Medical Radiation Physics Abbreviation: GDipMRP Home Faculty: Faculty of Engineering Engineering School: Engineering Physics Duration: 1 year full-time or part-time equivalent Total Credit Points: 48 Entry Requirements: A pass Bachelor degree of at least three years' duration in a relevant discipline	
Informatics	Delivery Mode: On campus Starting Session(s): Autumn/Spring Location: Wollongong UOW Course Code: 676 CRICOS Code: 052460G	
Law	<b>Overview</b> This Graduate Diploma is based on the coursework component of the Master of Medical Radiation Physics; it allows students to complete the formal coursework necessary for ACPSEM accreditation separately from the research component. The Graduate Diploma program has been accepted by the ACPSEM as leading towards accreditation as a professional medical physicist, the Graduate Diploma is not accredited by ACPSEM. Students must consult the Medical Radiation Physics Discipline Adviser for admission to the course. Forty eight (48) credit points are to be chosen from the following list in consultation with the Physics Discipline Advisor.	
Science	<b>Course Program</b>	
	<b>Subjects</b> Core Subjects	<b>Credit Points</b>

PHYS255	Radiation Physics	6
GMBH927	An Introduction to Human Anatomy and Physiology	6
PHYS952	Radiation and Radiotherapy Physics	8
PHYS953	Medical Imaging and Nuclear Medicine	8
PHYS954	Radiobiology and Radiation Protection	8
Plus 2 electives from the Physics undergraduate program or 900-level Physics subjects		

## Graduate Diploma in Science (Physics)

Testamur Title of Degree:	Graduate Diploma in Science (Physics)
Abbreviation:	GDipSc
Home Faculty:	Faculty of Engineering
Engineering School:	Engineering Physics
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Entry Requirements:	A pass Bachelor degree of at least three years' duration in a relevant discipline.
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	683
CRICOS Code:	002363A

### Overview

This course is designed to provide:

1. a Masters qualifying course for students who have inadequate preparation for direct entry into the Masters by Research program;
2. an opportunity for Science teachers who have a degree, but have taken Physics to first or second year level only, to improve their understanding and horizons in Physics;
3. an opportunity for international students and students without a full major in Physics to update their knowledge of Physics.

Students must consult the Physics Discipline Adviser for admission to the course. Forty eight (48) credit points are to be chosen from the following list in consultation with the Physics Discipline Advisor.

### Course Program

Subjects	Credit Points
Core Subjects	
PHYS205 Advanced Modern Physics	6
PHYS215 Vibrations, Waves and Optics	6
PHYS233 Introduction to Environmental Physics	6
PHYS235 Mechanics and Thermodynamics	6
PHYS255 Radiation Physics	6
PHYS295 Astronomy – Concepts of the Universe	6
MATH201 Multivariate and Vector Calculus★	6
MATH202 Applied Differential Equations★	6
MATH283 Mathematics 2E for Engineers Part 1	6
PHYS305 Quantum Mechanics★	6
PHYS325 Electromagnetism★	6
PHYS335 Classic Mechanics★	6
PHYS365 Detection of Radiation: Neutrons, Electrons and X-Rays	6
PHYS375 Nuclear Physics	6
PHYS385 Statistical Mechanics★	6

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	PHYS390	Astrophysics	6
	PHYS401	Theoretical Mechanics and Electromagnetism	8
	PHYS441	Advanced Astrophysics	4
	PHYS444	Quantum Mechanics	8
	PHYS446	Solid State Physics	8
Commerce	PHYS452	Medical Imaging	8
	PHYS453	Radiobiology and Radiation Protection	8
	PHYS456	Imaging Physics	8
	PHYS910	Advanced Project in Physics A	6
	PHYS947	Special Topics in Physics A	6
Creative Arts	PHYS948	Physics of Imaging	6
	PHYS960	Advanced Project in Physics B	6
	PHYS990	Applied Physics Project	24
	PHYS997	Special Topics in Physics B	6
Note: Starred subjects are pre- and co-requisites of some of the physics subjects.			
Education	<h2>Graduate Certificate in Engineering</h2>		
Engineering	Testamur Title of Degree:	Graduate Certificate in Engineering	
	Abbreviation:	GCertEng	
	Home Faculty:	Faculty of Engineering	
	Duration:	6months full-time or 1 year part-time	
	Total Credit Points:	24	
Graduate School of Business	Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary institution.	
	Delivery Mode:	On campus	
	Starting Session(s):	Autumn/Spring	
	Location:	Wollongong	
	UOW Course Code:	695	
Health & Behavioural Sciences	CRICOS Code:	N/A	
	<h2>Overview</h2>		
	This program is designed for those wishing to undertake a short program in engineering. Other qualifications, together with relevant professional experience, will be considered.		
	On completion of the Graduate Certificate, students can apply to transfer to the Master of Engineering Practice.		
	<h2>Course Program</h2>		
Informatics	<b>Subjects</b>		<b>Credit Points</b>
	Core Subjects		
	ENGG950	Innovation and Design	6
	ENGG951	Engineering Project Management	6
	ENGG952	Engineering Computing	6
Law	Plus one elective subject from one of the Master of Engineering Practice programs.		
Science			

## Graduate Certificate of Engineering Asset Management

Testamur Title of Degree:	Graduate Certificate of Engineering Asset Management
Abbreviation:	GCertEngAssetMgmt
Home Faculty:	Faculty of Engineering
Duration:	6months full-time or 1 year part-time
Total Credit Points:	24
Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary institution
Delivery Mode:	On campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1153
CRICOS Code:	N/A

### Overview

This course is designed for those wishing to undertake a short program in Engineering Asset Management. On completion of the Graduate Certificate, students can apply to transfer to the Master of Engineering Asset Management.

This is a 24 credit point program. The core program comprises three 6 credit point subjects. The remaining 6 credit points can be from the Master of Engineering Asset Management core or elective list.

### Course Program

Subjects	Credit Points
Core Subjects	
ENGG958 Life-Cycle and Risk Management	6
ENGG960 Maintenance Requirements Analysis	6
ENGG961 Systems Reliability Engineering	6
Plus one Elective	6

## Graduate Certificate in Rolling Stock Engineering

Testamur Title of Degree:	Graduate Certificate in Rolling Stock Engineering
Abbreviation:	GCertRSE
Home Faculty:	Faculty of Engineering
Duration:	6months full-time or part-time equivalent
Total Credit Points:	24
Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary institution
Delivery Mode:	Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1160
CRICOS Code:	N/A

### Overview

This course is designed for those wishing to undertake a short program in Rolling Stock Engineering. On completion of the Graduate Certificate, students can apply to transfer to the Master of Rolling Stock Engineering\*.

\*subject to approval of course planned to commence in 2008.

### Course Program

This is a 24 credit point program. The core program comprises four 6 credit point subjects.

Subjects	Credit Points
Core Subjects	

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	ENGG924	Railway and rolling stock environment	6
	ENGG925	Rail motive power	6
	ENGG926	Rail vehicle design	6
	ENGG927	Rolling stock safety and braking systems	6
Commerce			
Creative Arts			
Education			
Engineering			
Graduate School of Business			
Health & Behavioural Sciences			
Informatics			
Law			
Science			

## SUBJECT DESCRIPTIONS

### CIVL899 Advanced Topics in Engineering

Annual Wollongong On Campus

**Credit Points:** 48

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will normally take a selection of topics at advanced level from the following: computer aided analysis and design; computer methods; concrete design; civil engineering materials; finite element techniques; hydrology; hydraulics; numerical techniques; reliability; rock mechanics, soil mechanics; simulation; structural analysis and design; structural topology; town planning; traffic planning; traffic engineering; transportation; highway engineering; urban investigations; structural dynamics; continuum mechanics.

### CIVL901 Project

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** First stage of a comprehensive study concerning a specific topic; formulation of problem and literature study, critical examination of current work; planning of solution methods; presentation of results.

### CIVL903 Concrete Technology

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Mix design theories; design of high performance and lightweight concrete, elastic behaviour; strength, creep, shrinkage; concreting operations; durability; significance of tests and properties of constituent materials; analysis of results; non-destructive tests; special concrete applications.

### CIVL904 Highway Materials

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Soil and roadmaking aggregate surveys; compaction of soil; road construction with soil and low-grade aggregates; mechanical, cement, bituminous, and resinous stabilisation; constructional methods in soil stabilisation. The origin, preparation, constitution and rheology of bituminous binders; mechanical and physical properties of bituminous materials. Close and open textured materials. Surface dressing. Plant. Sampling and testing. Maintenance. Concrete construction. Materials; mixing; laying; sampling and testing. Maintenance. Pavement design and evaluation – a review of current Australian, European and North American Practice.

### CIVL905 Transportation Engineering

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Transport problems; urban travel demands; the transport planning process;

travel-demand forecasting; trip generation analysis; model split analysis; trip distribution analysis; route assignment analysis; economic analysis; employment and population forecasts; evaluation of transport plans; airport engineering; classification, design standards, layout and development, terminal facilities, city-airport transport systems; urban transportation; railroad engineering; light rail rapid transit; pipeline transportation; belt conveyors – freight and passengers.

### CIVL907 Civil Engineering Computations

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will concentrate on software packages which are designed for application to a wide range of structural types, both two and three dimensional, including trusses, frames, plates and shells. Any combination of these components may be used with a variety of analysis and design procedures including linear elastic analysis, nonlinear optimization, steel frame member design, and design and checking of reinforced concrete building frames including beams, columns, slabs, steel quantity and location, material take-off etc.

### CIVL908 Advanced Soil Mechanics

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The principle of effective stress and its implications; stress paths in soil mechanics; problems of shear strength and failure; peak, residual and softened shear strengths for soil; pore pressure parameters A and B; the use of pore pressure parameters in practice; selected problems of stability and settlement; the analysis and performance of slopes; the factor of safety concept; stress analysis approaches; introduction to soil dynamics.

### CIVL909 Advanced Foundation Engineering

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** General principles concerning selection of foundation type on different types of soil; Bearing capacity theories, shallow and deep footings, difficult ground conditions including collapsing and swelling soils; performance observations in geotechnical engineering; preventative and remedial measures against ground movement and slope failure; buoyancy rafts and basements; selected problems of foundation analysis and design; dam foundations; stress distribution and stress analysis; soil sampling and exploration; soil stabilisation including drainage.

### CIVL911 Finite Elements Methods

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Variational principles; element shape functions, 'displacement' and 'stress' formulations, curved and isoparametric elements;

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science





**ENGG903 Other Joining Processes**

CRC Intake Jan	Wollongong	Flexible
CRC Intake March	Wollongong	Flexible
CRC Intake May	Wollongong	Flexible
CRC Intake July	Wollongong	Flexible
CRC Intake Nov	Wollongong	Flexible
CRC Intake Sept	Wollongong	Flexible

**Credit Points:** 3**Pre-requisites:** ENGG901, ENGG902**Co-requisites:** None

**Subject Description:** Cold pressure, ultrasonic and explosive welding and diffusion bonding; stud welding and mechanical fasteners; resistance welding, weld-bonding, ERW and flash butt welding; oxy-fuel welding; cutting and other edge preparation processes; friction welding and friction stir welding; MIAB welding; brazing; soldering; and pre-heating, fuel gas, electric equipment and techniques.

**ENGG904 Fusion Welding Processes Part 2**

CRC Intake Jan	Wollongong	Flexible
CRC Intake March	Wollongong	Flexible
CRC Intake May	Wollongong	Flexible
CRC Intake July	Wollongong	Flexible
CRC Intake Nov	Wollongong	Flexible
CRC Intake Sept	Wollongong	Flexible

**Credit Points:** 3**Pre-requisites:** ENGG901, ENGG902**Co-requisites:** None

**Subject Description:** Gas metal arc welding (GMAW); metal inert gas (MIG) welding; metal active gas (MAG) welding; power sources; process factors; special techniques; joint design; specifications; applications; typical problems; health and safety issues. Metal transfer. Manual metal arc (MMA) welding; (SMAW, MMAW); power sources; process factors; electrode coatings; joint design; specifications; applications and typical problems; health and safety factors. Submerged arc welding (SAW); power sources; process factors; joint design; specifications; applications; typical problems; health and safety issues. Advanced GMAW, FCAW, Electroslag welding; process factors; applications and limitations.

**ENGG905 Behaviour of Metals During Welding - Part 1**

CRC Intake Jan	Wollongong	Flexible
CRC Intake March	Wollongong	Flexible
CRC Intake May	Wollongong	Flexible
CRC Intake July	Wollongong	Flexible
CRC Intake Nov	Wollongong	Flexible
CRC Intake Sept	Wollongong	Flexible

**Credit Points:** 3**Pre-requisites:** ENGG901**Co-requisites:** None

**Subject Description:** Structures and properties of metals; alloys and phase diagrams; iron-carbon alloys; heat-treatment of steels; microstructures of welded joints; embrittlement and cracking in steels. Structural steels; fine grained steels; thermomechanically processed steels.

**ENGG906 Behaviour of Metals During Welding - Part 2**

CRC Intake Jan	Wollongong	Flexible
CRC Intake March	Wollongong	Flexible
CRC Intake May	Wollongong	Flexible
CRC Intake July	Wollongong	Flexible
CRC Intake Nov	Wollongong	Flexible
CRC Intake Sept	Wollongong	Flexible

**Credit Points:** 3**Pre-requisites:** ENGG905**Co-requisites:** None

**Subject Description:** High temperature creep resistant steels; high alloy stainless steels; cryogenic steels; low temperature steels; stainless steels; H/R steels; creep resistant steels; nickel-based alloys; other metals and alloys; welding of ferrous and non-ferrous castings; introduction to corrosion and wear; welding of castings.

**ENGG907 Welding of Non Ferrous Metals and Non Metals**

CRC Intake Jan	Wollongong	Flexible
CRC Intake March	Wollongong	Flexible
CRC Intake May	Wollongong	Flexible
CRC Intake July	Wollongong	Flexible
CRC Intake Nov	Wollongong	Flexible
CRC Intake Sept	Wollongong	Flexible

**Credit Points:** 3**Pre-requisites:** ENGG906**Co-requisites:** None

**Subject Description:** Copper and copper-based alloys; aluminium and aluminium-based alloys; joining dissimilar alloys; structures and properties of non-metallic materials and composites; joining of polymers; joining of polymers to metals; joining of ceramics; ceramic-metal joints; methods used for joining of composites and composites to other materials.

**ENGG908 Construction and Design - Part 1**

CRC Intake Jan	Wollongong	Flexible
CRC Intake March	Wollongong	Flexible
CRC Intake May	Wollongong	Flexible
CRC Intake July	Wollongong	Flexible
CRC Intake Nov	Wollongong	Flexible
CRC Intake Sept	Wollongong	Flexible

**Credit Points:** 3**Pre-requisites:** ENGG907**Co-requisites:** None

**Subject Description:** Fundamentals of the strength of materials; basics of weld design; design principles of welded structures; joint design; fracture mechanics.

**ENGG909 Construction and Design - Part 2**

CRC Intake Jan	Wollongong	Flexible
CRC Intake March	Wollongong	Flexible
CRC Intake May	Wollongong	Flexible
CRC Intake July	Wollongong	Flexible
CRC Intake Nov	Wollongong	Flexible
CRC Intake Sept	Wollongong	Flexible

**Credit Points:** 3**Pre-requisites:** ENGG908**Co-requisites:** None

**Subject Description:** Behaviour of welded structures under load; design of welded structures for static

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	loading; effects of dynamic loading; thermodynamically loaded welded structures; reinforced steel welded joints; design of welded aluminium alloy structures.		
Commerce	<b>ENGG910 Fabrication/Applications Engineering - Part 1</b>		
	CRC Intake Jan	Wollongong	Flexible
	CRC Intake March	Wollongong	Flexible
	CRC Intake May	Wollongong	Flexible
	CRC Intake July	Wollongong	Flexible
	CRC Intake Nov	Wollongong	Flexible
Creative Arts	CRC Intake Sept	Wollongong	Flexible
	<b>Credit Points:</b> 3		
	<b>Pre-requisites:</b> 901,902,903,904,905,906,907,908,909		
	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> Cutting and other edge preparation processes. Quality assurance in welded structures; quality control during manufacture; total quality management. Plant facilities; welding jigs and fixtures. Fume and radiation hazards from welding; health and safety issues.		
	Education	<b>ENGG911 Fabrication/Applications Engineering - Part2</b>	
CRC Intake Jan		Wollongong	Flexible
CRC Intake March		Wollongong	Flexible
CRC Intake May		Wollongong	Flexible
CRC Intake July		Wollongong	Flexible
CRC Intake Nov		Wollongong	Flexible
Engineering	CRC Intake Sept	Wollongong	Flexible
	<b>Credit Points:</b> 3		
	<b>Pre-requisites:</b> ENGG910		
	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> Welding stresses and distortion; control of welding restraint; stress relieving of weldments. Repair welding; fitness for purpose considerations; economic aspects of weld fabrication; economic considerations of high productivity welding; automatic and robotic welding.		
	Graduate School of Business	<b>ENGG914 Fabrication/Applications Engineering - Part 3</b>	
CRC Intake Jan		Wollongong	Flexible
CRC Intake March		Wollongong	Flexible
CRC Intake May		Wollongong	Flexible
CRC Intake July		Wollongong	Flexible
CRC Intake Nov		Wollongong	Flexible
Health & Behavioural Sciences	CRC Intake Sept	Wollongong	Flexible
	<b>Credit Points:</b> 3		
	<b>Pre-requisites:</b> ENGG905, ENGG906, ENGG907		
	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> Practical exercises in weld defect testing using ultrasonics and radiography. Metallographic examination of commercially important metals and alloys, and the microstructures of steel and aluminium weldments. Measurement control and recording.		
	Law	<b>ENGG915 Design of Structures</b>	
CRC Intake Jan		Wollongong	Flexible
CRC Intake May		Wollongong	Flexible
<b>Credit Points:</b> 3			
<b>Pre-requisites:</b> ENGG908, ENGG909			
<b>Co-requisites:</b> None			
Science	<b>Subject Description:</b> Design case studies.		
	<b>ENGG916 Fabrication Case Studies</b>		
	CRC Intake Jan	Wollongong	Flexible
	CRC Intake May	Wollongong	Flexible
	<b>Credit Points:</b> 3		
	<b>Pre-requisites:</b> ENGG910, ENGG911, ENGG914		
<b>Co-requisites:</b> None			
<b>Subject Description:</b> NDT, practical, welding procedures, tutorials.			
<b>ENGG917 Processes, Equipment, Automation</b>			
CRC Intake Jan	Wollongong	Flexible	
CRC Intake May	Wollongong	Flexible	
<b>Credit Points:</b> 3			
<b>Pre-requisites:</b> ENGG901, ENGG902, ENGG903, ENGG904			
<b>Co-requisites:</b> None			
<b>Subject Description:</b> Mechanisation and robotics, case studies and tutorials.			
<b>ENGG918 Weldability and Wear</b>			
CRC Intake Jan	Wollongong	Flexible	
CRC Intake May	Wollongong	Flexible	
<b>Credit Points:</b> 3			
<b>Pre-requisites:</b> ENGG905, ENGG906, ENGG907			
<b>Co-requisites:</b> None			
<b>Subject Description:</b> Wear, hardfacing, metallography, surfacing, mechanical testing.			
<b>ENGG919 Dissertation</b>			
Annual	Wollongong	Flexible	
Spring2007/Autumn2008	Wollongong	Flexible	
<b>Credit Points:</b> 12			
<b>Pre-requisites:</b> None			
<b>Co-requisites:</b> None			
<b>Subject Description:</b> A thesis is required based on project work and/or an interpretative literature review on a topic.			
<b>ENGG923 Advanced Digital Sound and Imaging Techniques</b>			
<i>Not on offer in 2007</i>			
<b>Credit Points:</b> 6			
<b>Pre-requisites:</b> None			
<b>Co-requisites:</b> None			
<b>Subject Description:</b> Physics of sound, propagation of sound in air, interference and resonances, harmonics and musical instruments, acoustics; frequency response, digital sound recording and playback, digital filters, digital audio data compression and extraction and audio streaming; sound system design, frequency response curves, sound cards, audio systems, microphones, amplifiers and speakers. Introduction to digital image fundamentals: resolution, bit depth, compression, colour, image enhancement and geometric manipulations; noise reduction; image compositing; time and temporal manipulations, image tracking and stabilization; file formats: quality and efficiency; case studies.			
<b>ENGG924 Railway and Rolling Stock Environment</b>			
Autumn	Wollongong	Distance	
<b>Credit Points:</b> 6			
<b>Pre-requisites:</b> None			
<b>Co-requisites:</b> None			

**Subject Description:** Rail within a transport industry context, historical perspective on railways development, business structures for rail organisations, rolling stock interfaces, safety considerations, design drivers, system design specification, rolling stock system(operations, servicing, maintenance), component interfaces, train types and applications, rolling stock operation and asset management, railway cost perspectives, technological development trends in rolling stock.

### ENGG925 Rail Motive Power

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Diesel electric locomotives, electric locomotives, diesel hydraulic locomotives, integrated EMU, locomotive structure, locomotive configurations, locomotive performance, locomotive control systems, locomotive bogies, locomotive engines, locomotive traction generation, locomotive auxiliary systems, locomotive maintenance considerations. Elements of a traction system: interfaces with other systems, interactions between elements, limitations on tractive effort, traction control, basic traction technologies and their design, operation and maintenance characteristics: electric, diesel hydraulic, diesel, railcars, EMU, safety and environmental issues, performance criteria and measurement.

### ENGG926 Rail Vehicle Design

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Types and application of passenger rolling stock, passenger rolling stock configurations, passenger rolling stock structure, passenger rolling stock performance, passenger rolling stock traction and control systems, passenger rolling stock human interfaces, passenger rolling stock bogies, passenger rolling stock brakes, passenger rolling stock auxiliary systems, passenger rolling stock maintenance considerations, freight wagon types and applications, freight wagon standards, freight wagon life-cycle, freight wagon structures, freight wagon configurations, freight wagon coupling systems, freight wagon brakes, freight wagon bogies, freight wagon performance, freight wagon auxiliary fittings, freight wagon loading and unloading systems, freight wagon dangerous goods.

### ENGG927 Rolling Stock Safety and Braking System

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Rail safety systems and the interface with train braking systems, historical development of train brakes, train brake fail-safe concepts, train brake types, components and applications, compressed air systems, train brake control and controllers, train brake system performance and design – parking, normal and emergency operation,

train brake examination and testing, deadman and vigilance control, investigation of incidents where brake system failure may have been a factor.

### ENGG940 Dissertation

Annual Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The dissertation is a project allowing you to pursue a particular area in depth and solve a specific practical engineering problem. Students complete a dissertation in their area of interest. The dissertation develops skills in information retrieval, project planning and organisation, analysis, problem solving and effective communication of results. Involves the undertaking of an individual supervised project focused on solving a problem relevant to the discipline area of the degree. The student would normally be required to do a literature survey, analysis, and develop suitable solutions to the selected problem. This will allow the students to apply the knowledge and skills acquired in the structured coursework and thus gain valuable confidence in their ability to practice engineering at a high professional standard. Two bound copies of the final report must be submitted for assessment, together with an electronic version.

### ENGG945 Dissertation

Annual Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The dissertation typically requires rigorous research in a limited area – normally in the area of coursework components undertaken. It comprises a research project based on a problem in the discipline of the degree. The student would normally be required to do a detailed literature survey, analysis, modelling and develop suitable solutions to a selected problem. Students will be able to choose a suitable investigation within the current and relevant research activities associated with the Faculty of Engineering. The dissertation is individually supervised. Two bound copies of the final report must be submitted.

### ENGG950 Innovation and Design

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics will be selected from: The creative and innovative process, aesthetics in design, life cycle design and planning. Design for economy, maintenance, disassembly, recycling, repair and rehabilitation. Designing with materials. Durability of materials, components, systems and structures. Intellectual property, patents and technology transfer. The international marketplace. Constraints on design: standards, specifications and codes of practice. Feasibility studies and costing Teamwork in design. Case studies.

### ENGG951 Engineering Project Management

Spring Wollongong On Campus

**Credit Points:** 6

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Topics will cover: Scope Management, Time Management, Human Resource Management, Risk Management, Financial Management, Project Plans, Project Quality Management and Procurement &amp; Contract Management.</p>
Commerce	<p><b>ENGG952 Engineering Computing</b></p> <p>Autumn Wollongong On Campus</p> <p>Spring Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Software applications, programming development environments, application areas, mathematical techniques, and approaches to problem solving are explored from a wide variety of possible areas. Topics will be selected from the following list: Windows-based compilers and software libraries such as C/C++, fortran, and visual basic; Numerical and mathematical libraries such as Matlab, Mathematica, and Mathcad; Advanced spreadsheet programming; 3D Graphics programming using OpenGL; Advanced engineering graphics using Autocad; Database principles and techniques; Mesh Generation for finite element and finite difference modelling; Numerical solution of the equations of physical and engineering systems; Operations research, project management, and reliability simulation; Artificial neural networks.</p>
Creative Arts	
Education	
Engineering	<p><b>ENGG953 Modelling of Engineering Management Systems</b></p> <p>Spring Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Concentrating on the search of appropriate operations research techniques to assist in the solution of engineering management problems and basic experimental design. Topics include:- the basic principles of modelling, decision support models, modelling failure processes, search methods, scheduling models, queuing theory and its application, data collection and design, introduction to experimental design, principles of design, importance of randomisation, simple comparative experiments, experiments with a single factor, randomized blocks and related designs, introduction to factorial designs, Taguchi's philosophy of design.</p>
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	<p><b>ENGG954 Strategic Management for Engineers and Technologists</b></p> <p>Autumn Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> The subject introduces engineers and technologists to strategic management. This includes basic principles of analysis, decision-making and implementation. The aim is to create awareness of strategic issues in engineering and technology based organisations. This includes an appreciation of competitive leverage from technology decisions. A need for consciousness of these issues amongst engineers is crucial to their function in both profit and not for profit organisations.</p>
Law	
Science	

<p><b>ENGG955 Engineering Research Methods</b></p> <p>Autumn Wollongong On Campus</p> <p>Spring Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> The overall objective is to develop a structured approach to research in engineering. The focus is on the development of skills in framing a research problem, developing a research design, design of data collection analysis and interpretation frameworks. Literature research skills will be developed. An understanding of the selection and use of measurement sensors and engineering data collection and analysis tools will also be developed. Hands on experience in an engineering laboratory will be a feature. Ethical issues in research will be reviewed. Students will work on a selected project to develop a properly structured research proposal, including a research plan. The plan is to be presented orally and in written form.</p>	<p><b>ENGG956 Financial Management for Engineered Assets</b></p> <p>Spring Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Financial management principles, time value of money, discrete assets considerations, continuous assets considerations, identification of cost elements, cost prediction methods, regulatory economics, financial case development, engineered asset repair-replace decision making.</p>
<p><b>ENGG957 Project Implementation and Outsourcing</b></p> <p>Autumn Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Employment law, contract law, issues such as types of interface i.e. contract types (cost plus, schedule of rates): HR structure and sourcing arrangements, management of the interface, performance measurement, monitoring and management, managing the client, managing the supplier, legal implications, employment law and safety law implications, duty of care, transmission of business, industrial relations, intellectual property, ownership and use of maintenance data and know-how.</p>	<p><b>ENGG958 Life-Cycle and Risk Management</b></p> <p>Autumn Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p>Exclusions: Replaces MECH970</p> <p><b>Subject Description:</b> Framework, context and history of asset management, strategic management and engineered asset management in context. Application/adaptation of basic tools, costs and benefits of life cycle management, available models and standards. Possible uses of models business drivers, legal requirements, quality systems and configuration and documentation management, interfaces with other functions (departments and organisations).</p>

**ENGG959 Asset Management System Design**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

Exclusions: Replaces MECH976

**Subject Description:** Topics that may be covered include: human aspects of asset management and reliability; ergonomics; work measurement, methods engineering and activity sampling applied to asset management activities; estimation of task time; facilities layout. Planning for shutdowns and overhauls; inventory selection and inventory control systems, configuration management, warehouse control, evaluation of asset management performance.

**ENGG960 Maintenance Requirement Analysis**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

Exclusions: Replaces MECH971

**Subject Description:** Maintenance concept design methodology; reliability theory; data recordings and analysis; identification and analysis of failure modes; maintenance rule selection; preventative replacement policies; optimisation of inspection frequencies; clustering of tasks; opportunity maintenance; specification of resource requirements.

**ENGG961 Systems Reliability Engineering**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** RAM studies, requirements flow down, cost estimation, analysis on design, probabilistic design, logistic support, maintainability, availability, interface control, system integration, reliability growth modelling, cost estimation, spares. Testing and performance evaluation, system safety modelling, installation procedures, asset management, disposal, asset purchase/replacement policies and decision-making.

**ENVE899 Advanced Topics in Environmental Engineering**

Annual Wollongong On Campus

**Credit Points:** 48**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** One or more advanced topics taken from the following: computer aided analysis and design; computer methods; environmental hydraulics; pollution control; erosion and land rehabilitation; waste management; environmental impact assessment; environmental modelling processes; environmental geotechnology; transport and the environment; ground and mine-water.

**ENVE901 Project**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** First stage of a study on a selected topic, including formulation of the problem, literature study, development of study plan, and presentation of results.

**ENVE916 Research Topics in Environmental Engineering**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Topics will be selected from the areas of environmental engineering in which staff members are engaged in research.

**ENVE923 Industrial Waste Engineering and Cleaner Production**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Issues covered include industrial waste minimisation and treatment, industrial processes and control techniques. Waste auditing of an industry will be illustrated using a case study.

**ENVE924 Solid and Hazardous Waste Management**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Two areas are covered: Generation, characterisation, collection and minimisation of solid waste; and classification, treatment and final disposal of hazardous waste.

**ENVE925 Water Quality Engineering and Management**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** The main aim is to introduce concepts relating to water resources and global water problems, water quality characteristics, water quality processes and guidelines, water quality management, water supply and sanitation, natural treatment processes, various municipal water and wastewater treatment processes and wastewater reuse and recycling that will lead to sustainable development. The lecture components will be supplemented with relevant tutorials and weekly assignments. A number of laboratory classes will give students hands on exposure to determination.

**ENVE926 Air and Noise Pollution Management**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject covers the occurrence and consequence of air and noise

Arts
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Health & Behavioural Sciences
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Law
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Arts	pollution to modern society. The subject commences with an overview of the problem, identifies sources of pollution, deals with methods to measure and analyse the extent of the pollution, and concludes with methods to control the pollution.	
Commerce	<b>ENVE927 Environmental Engineering Processes Design</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> ENVE925 Water Quality Engineering and Management <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is designed to introduce system design using unit processes encountered in environmental engineering. The subject will cover design concepts, detailed and advanced design of water supply and treatment systems, advanced solid-liquid separation processes, design of wastewater collection systems, design of advanced wastewater treatment plant design, ocean outfall systems, design of land based systems, network design. The subject also includes design of air pollution and control systems. The lecture components will be complemented with design classes and field trips.	
Creative Arts		
Education		
Engineering	<b>ENVE928 Design of Urban Water Systems</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This design subject will focus on several group design projects in urban storm water management in terms of quality and quantity, river water quality and onsite waste management systems. In urban drainage design, you will use rational design and DRAINS model. In stormwater quality, pollutant build up - washoff relationships will be developed, the river water quality using QUALIE model and design of onsite systems using Australian standards.	
Graduate School of Business		
Health & Behavioural Sciences	<b>ENVE929 Site Contamination and Remediation Technologies</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The course describes the chemistry of soils, interactions of pollutants with soils and organic matter and their fate in the environment. Saturation of soils with contaminants through various sources has led to groundwater contamination. Characterisation of such sites, monitoring parameters, decision making and regulation will be included in this subject. The remediation of such contaminated soils and groundwater will be described with selected technologies, options of site containment, which is currently the most common technique will also be covered. The course will give an overview of the options and tools to assess and select the appropriate technology. This will also involve the revision of chemical parameters and students without the expected pre requisites are required to revise chemical principles independently.	
Informatics		
Law		
Science		

## ENVE930 Coastal, River and Groundwater Engineering

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Coastal Engineering - wave forecasting; wave refraction; diffraction and breaking; wave forces on structures; beach erosion and beach protection. Water Resources - the hydrologic cycle; distribution of the world's water resources; surface water resources; groundwater resources; computer models of catchment water balances; storage reservoir yield analysis. River Engineering - fluvial hydraulics; morphology of natural channels; soil erosion, sediment transport in streams; re-naturalising streams; Groundwater Hydraulics - groundwater quality and contaminants - reservoir sedimentation; hydraulic structures.

## ENVE931 Membrane Processes and Applications

Spring Wollongong On Campus  
Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject intends to demonstrate to students how nature works (biological membranes) and how such principles (membrane processes) can be used for medical, water and wastewater, processing and other industries by engineering appropriate materials and systems. The subject hence leads from nature to material science and engineering, fundamental transport principles to applications and process design with immediate relevance to the water and wastewater treatment industry where membranes are becoming a predominant process choice worldwide. The subject aims to bring science and engineering together on a number of levels such as in terms of learning from nature, applying engineering solutions to medical applications and using scientific principles to obtain engineering solutions. Both engineering and science students will be exposed to the thinking in the other discipline.

## ENVE981 Special Topic A

Autumn Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Specialist topic in environmental engineering offered by members of staff, professional engineers or visitors to the department.

## ENVE982 Special Topic B

Autumn Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Specialist topic in environmental engineering offered by members of staff, professional engineers or visitors to the department.

**ENVE985 Environmental Engineering**

Autumn Wollongong On Campus

**Credit Points:** 8**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject takes an engineering approach to solving problems in air, noise and water pollution. It considers the sources, effects and methods of control of the pollutants, as well as legislative requirements. The lecture and tutorial components of this subject are complemented by extensive field and laboratory sampling, measuring and analysis.

**GHMB927 An Introduction to Human Anatomy and Physiology**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject is designed to give the student an understanding of the structure and functioning of the human body. As this is a course designed for non-medical health professionals the major emphasis is on physiology rather than anatomy. All the organ systems of the human body are studied and appropriate links are made with both pathophysiology and human development. The laboratory sessions form an integral part of the course, expanding on and complementing the lectures. They allow time for more in-depth study of structure and illustrate functioning through a series of carefully designed experimental procedures.

**MATL899 Advanced Topics in Materials Engineering**

Annual Wollongong On Campus

**Credit Points:** 48**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** A program approved by the Discipline Adviser of project work and studies of advanced topics in materials selected from the fields of processing, physical and mechanical behaviour, microstructure and observational methods.

**MATL901 Special Topic in Materials 1**

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** There are no set syllabi for these subjects. It is intended that they will be offered on a specialised materials engineering topic.

**MATL902 Special Topic B**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** There are no set syllabi for these subjects. It is intended that they will be offered on a specialised materials engineering topic by members of the School, or visitors to the School.

**MATL903 Recent Developments in Materials**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Considerations of the structures, properties, technology and applications of advanced materials with emphasis on materials important to the Australian economy.

**MATL905 Metallic Materials**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Commercial metals and alloys. Relationships between structure and industrially significant properties. Control of structure by processing. Thermal and mechanical treatment. Recovery and recrystallization. Metal-matrix composites.

**MATL906 Ceramic Materials**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Ceramics - traditional and advanced. Microstructure-property relationships. Processing, solid state and liquid phase sintering. Applications. Ceramic matrix composites.

**MATL907 Polymeric Materials**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Polymers, formation and classification. Effects of structure and additives on properties. Composite materials with polymeric matrices.

**MATL908 Phase Transformations***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Analysis and theories of solid state phase transformations, nucleation phenomena, diffusional and diffusionless growth; application to precipitation, eutectoid, proeutectoid, martensitic and other processes.

**MATL911 Mechanical Behaviour of Materials***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Behaviour of ceramics, metals and polymers under stress, stress-strain relationships, time and temperature dependent phenomena.

**MATL932 Surface Engineering of Materials***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** Surface coating processes,

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Science

Arts	<p>coating of materials with ceramics, metals and polymers; quality and performance of the product; surface heat treatment processes.</p> <hr/> <p><b>MATL936 Chemical Reaction Engineering</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> MATH188</p>	<p>of the topics will be subject to the approval of the Head of the Department in which the student wishes to enrol and subsequently specialise.</p> <hr/> <p><b>MECH903 Biomechanical Engineering</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject introduces a selection of advanced quantitative methods used in biomechanical assessment of human movements. Topics include three-dimensional dynamics, modelling techniques (including finite element, simulation and optimisation).</p>
Commerce	<p><b>MATL937 Process Metallurgy</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Ironmaking. Sintering and pelletising; time-temperature effects; phase composition; strength-reducibility relationships; mix selection; cokemaking; fundamental relations; coke strength and reactivity; blast furnace process; Rist and Reichert diagrams; burden design and distribution; stack, bosh and hearth processes; DRI.</p>	<p><b>MECH913 Pneumatic Transport of Bulk Solids</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Classification and selection of transport systems; flow patterns; pressure drop, minimum transport velocities; design parameters and examples; feeding and disengaging methods.</p>
Creative Arts		
Education	<p><b>MATL952 Performance of Materials B</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Environmental behaviour. Thermo-dynamic aspects. Oxidation, processes and kinetics. Oxidation resistance. Aqueous corrosion, types of reaction, avoidance and restraint. Degradation of polymers and ceramics. Wear and abrasion. Stress corrosion and corrosion fatigue.</p>	<p><b>MECH918 Sustainable Energy in Buildings</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Advanced topics in: performance of buildings with particular regard to thermal comfort and ventilation; analysis and design of conventional air conditioning systems to appropriate standards; passive solar design of buildings; energy conservation in buildings; embodied energy in buildings; natural ventilation systems; and refrigeration systems.</p>
Engineering		
Graduate School of Business	<p><b>MATL972 Selection and Design of Materials</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> General classifications and properties of materials. Standards, codes and specifications. Property requirements for specific applications. Bases for choice of materials, testing and evaluation. Constraints imposed by environmental, manufacturing and economic considerations. Use of computers and data banks. Case studies.</p>	<p><b>MECH919 Advanced Topics in Mechanical Engineering 1</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> There is no set syllabus for this subject. It is intended that it normally be offered on a specialised mechanical engineering topic given by members of the Department, visiting academic staff or engineering consultants.</p>
Health & Behavioural Sciences		
Informatics	<p><b>MATL988 Metallurgical Processing 2</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> MATH202 and MATH203 <b>Co-requisites:</b> None</p>	<p><b>MECH920 Numerical Methods in Mechanical Engineering</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject consists of two main areas: a. Computational fluid dynamics which includes a selection of computer techniques applied to aerodynamics and hydrodynamics; and b. A study of industrial fluid mechanics which includes a selection of the following topics; principles of turbo</p>
Law	<p><b>MATL999 Advanced Topics in Materials</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 48 <b>Pre-requisites:</b> MATH202 and MATH203 <b>Co-requisites:</b> None</p>	
Science	<p><b>MECH899 Advanced Topics in Engineering</b> Annual Wollongong On Campus <b>Credit Points:</b> 48 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Students will normally take a selection of topics at advanced level. The selection</p>	



machinery; pipe networks; control and suppression of pressure surges in pipelines; causes and avoidance of flow induced vibration in engineering systems.

### MECH925 Advanced Fluid Power

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Fluid power components; circuit design; analysis of transmission, valve-controlled and feedback systems; electronic controls; vibration and transient response.

### MECH926 Applied Fluid Mechanics

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A study of applied fluid mechanics which will include the analysis, design and control of a selection of fluid flow systems in industry.

### MECH927 Physical Processing of Bulk Solids

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Bulk solids description and characterisation; crushing, grinding, thickening, separation, precipitation, filtration, blending, tableting, briquetting and agglomeration, sizing and classification; introduction to beneficiation; drying; intermediate processing and handling; control and instrumentation; dust generation and abatement.

### MECH928 Finite Element Techniques in Mechanical Engineering

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Introduction to finite element method. Application of finite element technique to stress analysis, fluid mechanics, heat transfer, vibration. Computer packages.

### MECH929 Advanced Topics in Mechanical Engineering 2

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** As for MECH919.

### MECH930 Mechanical Vibration and Condition Monitoring

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Balancing of machinery. Vibrations, Energy Method and Rayleigh Principle. Two degrees of freedom system, free vibration, transient response, steady state response, damping. Multimass system, free vibration,

forced vibration, damping. Vibration of beams. Torsional vibration in rotating machinery. Conditions monitoring of machinery: vibration measurement and analysis.

### MECH931 Friction Lubrication and Wear

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Navier-Stokes and Energy equation of viscous fluid flow and their application to hydrodynamic journal and thrust bearings. Characteristics of hydrodynamic and hydrostatic bearings. Bearings selection and design. Rolling bearings and Elasto-hydrodynamic lubrication. Friction and wear processes. Boundary lubrication. Properties of lubricants and bearing materials and their interaction. Application in industry.

### MECH933 Solar Energy

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Principles and techniques applicable to the analysis and design of solar thermal energy systems. Solar radiation; transmission and absorption by collectors; analysis and design of collectors; energy storage; system thermal calculations; solar process economics.

### MECH934 Advanced Manufacturing Processes

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Modelling of advanced manufacturing processes; manufacturing cost analysis; productivity and quality methods and measurements in manufacture; computer-assisted process planning; manufacturing optimisation; trends in advanced manufacturing processes, recycling aspects.

### MECH935 Integrated Manufacturing Systems

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Concurrent engineering, its application and benefits; computer integrated manufacturing concepts and applications; CAD/CAM, CNC programming, FMC, FMS; computer-process interfacing; process and tool condition monitoring; computer-aided quality control; assembly systems, assembly lines, assembly line balancing; design for manufacture - casting, forming, machining and selected examples; human interface in manufacturing systems; future trends.

### MECH939 Advanced Topics in Mechatronic Engineering

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Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** There is no set syllabus

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for this subject. It is intended that it normally be offered on a specialised mechatronic engineering topic given by members of the Faculty, visiting academic staff or engineering consultants.

### **MECH941 Micro/Nano Robotic Systems**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** An overview of manipulation systems, comparison of macro-micro-nano worlds, micro/nano mechanics, actuation, sensing, design, manufacturing/fabrication, control and calibration issues in micro/nano robotic systems, examples of micro/nano robotic systems and their application areas.

### **MECH948 Sustainable Energy Technologies**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject covers a number of Sustainable Energy Technologies including the following: solar thermal systems; photovoltaics; wind energy; hydroelectricity generation; wave power systems; biomass; remote area power supplies; energy conservation/auditing. The environmental and social impact of these technologies as compared to conventional energy sources will be considered. Students will undertake a laboratory/field experiment or project, and/or carry out a case study.

### **MECH949 Advanced Computer Control of Machines and Processes**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Advanced modelling and control of multivariable systems; performance of multivariable control systems; optimal control theory; robust control systems; design, implementation and evaluation of digital control systems.

### **MECH950 Advanced Robotics**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject provides the knowledge and skills required to design appropriate robotic systems. Topics covered include: industrial robots as a component of automation, mathematical modelling of a robotics arm, direct and inverse kinematics model, direct and inverse dynamics model, trajectory planning, robot control, design and selection of drives and motors, industrial vision systems, position sensors, force sensors, ultrasonic sensors and other sensors

### **MECH979 Sustainable Transport and Engine Technology**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Advanced topics in:

human powered transport, conventional and novel engine technology and design; strategies for reducing emissions; alternative fuels; solar vehicles; fuel cells and hybrid vehicles.

### **MECH982 Bulk Solids Characterisation and Particulate Mechanics**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Concepts of particle mechanics (failure criteria, models to represent such criteria as particle size and distributions, particle shape, compressibility, permeability, internal friction, cohesion, adhesion, wall friction); concepts of flow properties of bulk solids for equipment design; flow property measurement techniques; use of computer software to analyse and present experimental data for use in design.

### **MECH983 Bulk Solids Handling (Storage and Flow)**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Basic concepts of storage; flow and feeding of bulk solids; use of flow properties to determine hopper geometrics; bin wall loads; feeding and discharge systems, feeder loads; chute design; flowrate prediction; segregation and blending; dust suppression systems; stock pile systems; case studies.

### **MECH984 Belt Conveying**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Belt conveying systems; properties of conveyor belting; tension analyses (static and dynamic); drive systems; loading and unloading belts; trajectory prediction; transfer chute design novel belt systems; economic analyses.

### **MECH985 Dust and Fume Systems**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Basic concepts; terminology and problems; health and safety regulations; dust characterisation; fan performance characteristics; capture velocities and minimum transport velocities; hood and enclosure design; duct design; dust generation and its minimisation; filtration systems; design of dust handling and disposal systems; occupational health and safety; dust explosion; case studies.

### **MECH986 Instrumentation and Control Systems For Bulk Solids**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Transducer types and their specification and applications; dynamic response of

systems; speed measurement and control; mass flow rate measurement; belt weighing; weigh belt feeders; continuous and batch weighing systems; bin weighing systems and structural implications; system accuracy; interfacing with PLC's and computers; case studies.

### **MECH987 Advanced Topics in Bulk Solids and Particulate Technologies 1**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

### **MECH988 Advanced Topics in Bulk Solids and Particulate Technologies 2**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

### **MECH989 Advanced Topics in Bulk Solids and Particulate Technologies 3**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

### **MECH990 Bulk Solids and Particulate Technologies Project**

*Not on offer in 2007*

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Prepare a thesis on an approved topic related to bulk solids and/or particulate technologies. Normally the thesis will cover work performed in the workplace and additional supervision by an industry representative.

### **MECH993 Maintenance Management of Bulk Handling Systems**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Maintenance function principles and objectives; reliability and maintainability;

maintenance planning; maintenance strategy for plant – a systems approach; maintenance and information support; failure analysis; maintenance organisation; maintenance control and documentation; human resource management; total production maintenance; auditing industrial maintenance systems.

### **MECH994 Mechanical Handling Systems**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Loss factor of transport; economic analysis of conveying and transportation systems; aspects of particulate mechanics in relation to mechanical handling systems; design concepts and performance criteria of mechanical conveying and feeding equipment employed in process plants. Performance analysis and evaluation of mechanical loading and unloading systems such as used in ship transport.

### **MECH995 Bulk Solids Handling (Systems and Design)**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Bin wall loads for symmetric and eccentric discharge; analysis of dynamic effects, the 'silo quaking' problem; wall roughness, friction and wear; feeder design principles; performance analysis of a range of feeders for bulk solids; flow promotion; blending and mixing; flow of fine powders; transfer chutes; vibration of bulk solids.

### **MINE899 Advanced Topics in Mining Engineering**

Annual Wollongong On Campus

**Credit Points:** 48

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Computer aided analysis and design; computer methods; ore reserve estimation finite element techniques; hydrology; hydraulics; numerical techniques; reliability; rock mechanics; simulation; structural analysis and design; structural topology; mine planning.

### **MINE902 Advanced Studies in Mining Engineering**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics will be selected from those areas of Mining Engineering in which staff members or visiting staff members to the Department are engaged in active research.

### **MINE903 Simulation of Mining Operations and Problems**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Including coal reserves,

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Arts	<p>mining dimensions, surface effects, cost benefit effects of operation and management and economic evaluation and feasibility of a mining enterprise.</p> <hr/> <p><b>MINE904 Rock Mechanics</b>  Spring Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> Fundamentals of strata mechanics together with advanced topics including engineering technology and rock mechanics aspects of coal mining strata control. Design aspects of mine structures, such as mine pillars, gate roads and longwall mining. Instrumentation in providing for the safe design of the mine opening. Rock and cable bolting techniques and powered support design.</p> <hr/> <p><b>MINE905 Environmental Control in Mines</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> Mine climate and its control, ventilation planning, ventilation network analysis and simulation; fan selection, booster fans; ventilation of long headings, recirculation; exhaust from diesel engines and their control; methane and its control in underground coal mines, dust in mine air and its control.</p> <hr/> <p><b>MINE906 Mining Engineering Techniques</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> A selection of advanced laboratory and field exercises in mine support, temporary and long term; in situ testing, laboratory testing, rock properties and parameters; mine design and plant related to extraction areas.</p> <hr/> <p><b>MINE916 Mineral Valuation and Risk Analysis</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject aims to provide resource professionals with the analytical tools to assess and evaluate the financial viability of an exhaustible resource project at various stages from exploration into development. It provides the student with knowledge of the theory, principles and applications of probabilistic discounted cash flows to the risk analysis of resources projects. Monte Carlo and Latin Hypercube simulation methods are discussed in the evaluation of financial risks. The subject also surveys the effects of mining taxation and other government imposts on a mining project and the impact of inflation on cash-flow analysis.</p> <hr/> <p><b>MINE917 Mineral Economics</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject introduces the</p>
Commerce	<p>economics theory of exhaustible resources, including the geographic distribution, abundance and availability of mineral resources, the resource base concept and the definition, measurement and conversion resources and reserves; and the concepts of resources supply and demand.</p> <hr/> <p><b>MINE918 Commodity Analysis</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject provides specialist skills for the analysis of mineral commodities, including the principles of commodity marketing, commodity price formation, the factors affecting supply and demand, the structure of commodity and metal markets, future trading in commodities, market behaviour and price response and commodity price forecasting.</p> <hr/> <p><b>MINE919 Mineral Resources Policy</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> This subject examines the social economic and political processes through which mineral resource policy is developed. Case studies will be used to understand the impacts of resources development. Theoretical perspectives may include the politics and sociology of resources development, global, national and regional developments in mineral resources regulation, theories of state regulation and intervention, and the choice and negotiation of different policy strategies.</p> <hr/> <p><b>PHYS910 Advanced Project in Physics A</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> The student will be required to design and construct several self-contained experiments at the level of those encountered in Advanced Experimental Physics. OR After successfully completing this subject, the student will * have gained experience in contributing to the work of a small research group * be able to keep detailed working records of the progress of experiments * have gained a variety of intermediate practical and analytical level skills related to the specific area of research in which they have been involved * be able to present a short seminar on the research in which they were engaged.</p> <hr/> <p><b>PHYS946 Advanced Solid State Physics</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> Crystal Symmetries; Groups of Linear Transformation; Abstract Groups; Theory of Group Representations; Group of the Schrodinger Equation; Selection Rule Theorem; Groups of Physical Interest; Rotation Operations; Double-Valued Representations; Direct Products; Crystal Fields; Adiabatic Approximations; Bloch's Theorem; The Effective Mass Expansion; Spin-Orbit Interaction; Time-reversal Symmetry; Symmetry Properties of Wave Vectors; Band Theory; Impurities in Semiconductors.</p>
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**PHYS947 Special Topics in Physics A**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None**Subject Description:** A special topic to be selected from any area of Physics. The selection to be made by the Physics Academic Adviser.**PHYS948 Physics of Imaging**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None**Subject Description:** Photographic processes and interpretation; Optical and infrared arrays; Image digitising systems; Radio synthesis imaging and Fourier optics; Applications in industry, medicine and astrophysics.**PHYS951 Medical Physics Research Project**

Spring2007/Autumn2008 Wollongong On Campus

Annual Wollongong On Campus

**Credit Points:** 18**Pre-requisites:** None**Co-requisites:** None**Subject Description:** The student will be required to undertake an applied research project on a topic of medical radiation physics under the supervision of one of the staff members working in the area of medical radiation physics. The area of research will be selected from the following fields: Nuclear Medicine, Medical Imaging, Radiobiology, Radiation Protection, Diagnostic Radiology, Radiotherapy, Instrumentation and Imaging Physics. All the above research topics may not be available every year.**PHYS952 Radiation and Radiotherapy Physics**

Autumn Wollongong On Campus

**Credit Points:** 8**Pre-requisites:** None**Co-requisites:** None**Subject Description:** This subject is intended to lead to an understanding of the instrumentation and techniques involved in diagnostic and therapeutic uses of radiation in medicine. Topics covered will include Interactions of Radiation with Matter, Sources of Radiation, Detecting Radiation, Nuclear Electronics and data acquisition system, Nuclear Reactions and Production of Radioisotopes, Neutron Physics, Dosimetry of photons, electrons and neutrons, Solid State Dosimetry, TLD and film dosimetry, Introduction to Radiation Therapy, Medical Linear Accelerators, X-ray Modelling Methods, Brachytherapy and Radiosurgery, Clinical Radiotherapy, Linear Accelerators X-ray and Electron Beam Properties.**PHYS953 Medical Imaging and Nuclear Medicine**

Spring2007/Autumn2008 Wollongong On Campus

Annual Wollongong On Campus

**Credit Points:** 8**Pre-requisites:** None**Co-requisites:** None**Subject Description:** This subject is intended to lead to an understanding of the instrumentation and techniques involved in medical imaging and an

appreciation of the part played by image analysis in medical physics specifically. Topics covered will include - the photographic process, solid state detectors and CCDs, the hardware of image processing; film digitisers and plate scanners, software techniques, histograms, enhancements, convolution, edge enhancement, Fourier techniques and pattern synthesis, nuclear magnetic resonances, Larmor frequency, basic imaging, slice selection, 3D data acquisition, chemical shift imaging, contrast agents, image artefacts and distortion. The evolution and basic physics of radionuclide imaging, the tracer principle in Nuclear Medicine, the ideal properties for diagnostic agents for diagnostic studies, the ideal properties for therapeutic radioactive agents, basic physiology of body organs pertinent to Nuclear Medicine,

**PHYS954 Radiobiology and Radiation Protection**

Spring Wollongong On Campus

**Credit Points:** 8**Pre-requisites:** None**Co-requisites:** None**Subject Description:** Topics covered in this subject include - Interaction of radiation with living cells and tissue; clinical fractionation; clinical radiation syndromes; radiobiological modelling; experimental radiation oncology; local control vs system control; radionuclide therapy; binary therapy; new radiotherapy modalities and their radiobiology; dosimetry; natural background radiation; principles of radiation protection; instrumentation for radiation protection; Radiation protection in radiation therapy and diagnostic**PHYS955 Transitional Medical Radiation Physics Program**

Annual Wollongong On Campus

**Credit Points:** 8**Pre-requisites:** None**Co-requisites:** None**Subject Description:** The Transitional Program will have the following structure: \* Radiation and Radiotherapy Physics - involving practical and clinical laboratory work in the following areas: QA and Simulator (10hrs), Advanced Pinnacle and Dose Planning (16hrs), Monte Carlo simulations (8hrs) and Brachytherapy (4hrs). \* Medical Imaging and Nuclear Medicine (60hrs) - no further work is required of Honours graduates in Medical Imaging. Students will be required to attend the Nuclear Medicine module of PHYS953. In addition students will be required to produce a paper and present a major seminar on an aspect of clinical medical radiation physics (approx 15hrs).**PHYS960 Advanced Project in Physics B**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None**Subject Description:** The student will be required to design and construct several self-contained experiments at the level of those encountered in Advanced Experimental Physics. OR After successfully completing this subject, the student will \* have gained experience in contributing to the work of a small research group \* be able to keep detailed working records of the progress of experiments \* have gained a variety of intermediate practical and

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analytical level skills related to the specific area of research in which they have been involved \* be able to present a short seminar on the research in which they were engaged.

### PHYS990 Applied Physics Project

*Not on offer in 2007*

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The student will undertake a research project and present a minor thesis and seminar on an applied physics topic selected after discussion with the Discipline Adviser.

### PHYS997 Special Topic in Physics B

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A special topic to be selected from any area of physics. The selection to be made by the Physics Discipline Adviser.

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# Graduate School of Business

## Courses Offered

Doctor of Philosophy  
 Master of Business Administration  
 Master of Business Administration (Advanced)  
 Master of Health Leadership and Management  
 Master of International Business  
 Master of Management  
 Master of Science (Logistics)  
 Graduate Diploma in Business Administration  
 Graduate Certificate in Business Administration  
 Graduate Certificate in Business  
 Graduate Certificate in Commerce  
 Graduate Certificate in International Business  
 Graduate Certificate in Logistics  
 Graduate Certificate in Management

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).

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## Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Graduate School of Business
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	48 per annum
Delivery Mode:	Supervised individual research
Location:	Wollongong campus
UOW Course Code	201
CRICOS Code:	TBA

### Overview

Candidates with demonstrated research potential, exhibited usually by a Bachelor Honours, Masters by Research degree or other Masters degree that includes a research project, can apply to take a Doctor of Philosophy. Full-time study of three years, or the part-time equivalent, is normally required. Candidates will be expected to work under supervision on research projects related to their thesis area and may be required to complete coursework classes in order to acquire theory and develop methodological skills necessary for their doctoral research. Candidates for this degree enrol in the subject THES924 (full-time) or THES912 (part-time).

The following areas of research are some of the topics available to candidates undertaking the Doctor of Philosophy degree:

- Logistics and Supply Chain Management
- Management systems
- Corporate Recovery and Turnaround Strategy
- Organisational Behaviour
- Financial Management of Enterprises
- Financial Restructuring
- Strategic Management
- Corporate Governance and Business Ethics
- International Business Strategy
- Labour Regulation in the Global Economy
- Public Policy and Public Administration
- Health Management and Policy Development

### Other Information

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

## Master of Business Administration

Testamur Title of Degree:	Master of Business Administration
Abbreviation:	MBA
Home Faculty:	Graduate School of Business
Duration:	18 months full-time or part-time equivalent
Total Credit Points:	72
Starting Session(s):	Intake A, B, C, D at Sydney Business School Autumn, Spring, Summer at Wollongong campus
Delivery Mode:	Face-to-face
Location:	Wollongong, Sydney Business School, Dubai
UOW Course Code:	547, SC547, DB547
CRICOS Code:	013031G



## Overview

The MBA is designed for experienced professionals who wish to develop their managerial skills in order to effectively operate in an increasingly competitive and evolving global business environment. Our program is designed for those who are qualified in a specialised field and who wish to develop their business acumen and business skills. MBA students develop a portfolio of key management competencies that range from strategic analysis and decision making skills through to an appreciation of global business challenges, complemented by people, financial, marketing and system analysis skills.

## Entry Requirements

Applicants must have a Bachelor degree or equivalent from a recognised tertiary institution with an average mark of at least 60%, along with a minimum of two years full-time relevant professional or managerial work experience. Applicants must also meet the University's English Language requirements (Refer to the University's website at [www.uow.edu.au/discover/international](http://www.uow.edu.au/discover/international) for details).

### Advanced Standing

Candidates who have completed either the Master of International Business (MIB), Master of Management (MMgmt) or Master of Science (Logistics) [MSc] degree, and meet the MBA entry requirements, may apply to enrol in the MBA program. To complete the MBA, candidates will be required to complete a further six specified subjects (36 credit points) as determined by the MBA Course Convenor.

Candidates who have completed either the Graduate Certificate in Business Administration or the Graduate Diploma in Business Administration, may apply to progress to the MBA program with credit for previous subjects completed within the discipline.

Candidates who have successfully completed a selected range of Masters programs from the Faculties of Commerce, Health and Behavioural Sciences, Informatics, Engineering, and Education, and who satisfy entry requirements for the MBA, may apply to enrol in the MBA program with advanced standing.

Candidates should consult the MBA Course Convenor for further information.

## Course Requirements

Candidates are required to complete twelve 12 subjects (72cps) according to the list below. There are nine compulsory subjects (54 cps) along with three elective subjects (18 cps) selected from other 900 level Graduate School of Business or other 900 level subjects as approved by the MBA Course Convenor.

## Course Program

Compulsory Subjects	Credit Points
TBS901 Accounting for Managers	6
TBS903 Managing People in Organisations	6
TBS904 Marketing Management	6
TBS905 Economic Analysis of Business	6
TBS906 Information Systems for Managers	6
TBS907# Financial Strategy	6
TBS909 Corporate Governance	6
TBS920★ International Business Strategy	6
TBS921★ Strategic Decision Making	6

# TBS901 is a pre-requisite for TBS907.

★ These capstone subjects should ideally be undertaken only after all compulsory subjects have been completed.

Two elective subjects that are strongly recommended to students because they provide vital management skills are:

1. TBS902 Statistics for Decision Making (required for those students who have not previously studied statistics, as this subject develops necessary skills to complete other core MBA subjects); and
2. TBS908 Supply Chain Management (provides an overview of overall product/ service development, outlining the dependency upon both internal and external suppliers)

Students may also apply to complete an individual research project as a 6 or 12 credit point elective subject. The project topic is to be approved by the Course Convenor.

Note: Students undertaking the program through the Sydney Business School will have a restricted number of elective subjects available.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Credit Towards Other Courses

Upon completion of the MBA with an average mark of at least 60 per cent, candidates may apply to progress to the Master of Business Administration (Advanced) with credit for previous subjects completed within the MBA.

MBA graduates may apply to enrol in one of the Graduate School's eight subject Masters programs such as MIB, MMgmt or MSc (Logistics). Those candidates may apply for advanced standing for subjects completed under the MBA and will be required to complete a further six specified subjects (36 credit points) as determined by the Course Convenor.

Applicants should consult the relevant Course Convenor for further information.

## Other Information

Our membership with the Australian National Business School (ANBS) enables our MBA students to be able to transfer to other ANBS member Universities and have the flexibility to work temporarily interstate without disrupting their studies. Our MBA students also have the opportunity to participate in South East Asian and European summer schools.

## Master of Business Administration (Advanced)

Testamur Title of Degree:	Master of Business Administration (Advanced)
Abbreviation:	MBA (Adv)
Home Faculty:	Graduate School of Business
Duration:	2 years full-time or part-time equivalent
Total Credit Points:	96
Starting Session(s):	Intake A, B, C, D at Sydney Business School Autumn, Spring, Summer at Wollongong campus
Location:	Wollongong, Sydney Business School
Delivery Mode:	Face-to-face
UOW Course Code:	1547, S1547
CRICOS Code:	048696M

## Overview

The Master of Business Administration (Advanced) program offers students an extended MBA degree. The MBA Advanced program has a strategic focus designed for those students who require the knowledge, competencies and managerial skills necessary to operate in a challenging and changing global environment. The MBA (Advanced) program offers students the opportunity to further specialise in their area of interest by completing additional elective subjects.

## Entry Requirements

Upon successful completion of the Master of Business Administration program with an average mark of 60 per cent, students may apply to progress to the MBA Advanced degree.

## Course Requirements

In addition to the Master of Business Administration (MBA) course requirements, candidates will complete four 900 level elective subjects (24 credit points) from a specialisation discipline selected from the list below. The subject selection is to be determined in consultation with the MBA Course Convenor and the relevant Faculty's Course Convenor.

Graduate School of Business

- General Management \*\*
- International Business \*\*
- Logistics \*\*

Faculty of Commerce

- Accounting
- Finance
- Economics
- Human Resource Management
- Information Systems
- Management
- Marketing

#### Faculty of Engineering

- Engineering
- Engineering Management
- Environmental Engineering
- Engineering Asset Management

#### Faculty of Health and Behavioural Sciences

- Health Management
- Public Health

#### Faculty of Informatics

- Internet Technology
- Electronic Commerce
- Information Technology Management
- Industry-based Information Technology
- Information and Communication Technology

★★ General Management, International Business and Logistics are the only specialisations offered at Sydney Business School. All other specialisations must be completed at Wollongong campus.

Please contact the MBA Course Convenor for further information.

## Master of Health Leadership and Management

Testamur Title of Degree:	Master of Health Leadership and Management
Abbreviation:	MHLM
Home Faculty:	Graduate School of Business Faculty of Health and Behavioural Sciences Faculty of Informatics
Duration:	12 months full-time or part-time equivalent
Total Credit Points:	48
Starting Session(s):	Autumn, Spring, Summer at Wollongong campus
Delivery Mode:	Face-to-face
Location:	Wollongong
UOW Course Code:	1566 – Health & Behavioural Sciences 1567 – Graduate School of Business 1568 – Informatics
CRICOS Code:	026342G

### Overview

This course is designed for practicing health professionals seeking to develop their management and leadership skills.

This flexible program allows students to select from a variety of Graduate Certificate degrees and tailor their Masters program to suit their professional development requirements.

### Entry Requirements

Students can enter the Master of Health Leadership and Management degree via either of the pathways detailed below:

1. Applicants with a Bachelor degree of at least three years duration from a recognised tertiary institution or equivalent, together with a minimum of two years full-time relevant work experience will be admitted to the Master of Health Leadership and Management degree. Upon commencement of the degree, students will nominate two Graduate Certificate degrees within the course structure.
2. Alternatively, applicants may apply to enrol in one of the Graduate Certificate degrees listed within the MHLM course structure, provided they meet the entry requirements as specified for this Graduate Certificate by the relevant Faculty. Upon successful completion of the Graduate Certificate with an average mark of at least 60 per cent, students may apply to progress to the Master of Health Leadership and Management with credit for previous studies completed.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Advanced Standing

Candidates must successfully complete a total of eight subjects, totalling 48 credit points; no advanced standing will be granted for subjects completed in the first graduate certificate degree. Students who successfully complete one of the Graduate Certificate programs listed in the course structure with an average mark of at least 60 per cent, may apply to progress to the MHLM with credit for previous studies.

## Course Requirements

Students who enrol directly into the Master of Health Leadership and Management will be required to meet with the Course Co-ordinator and discuss which two of the graduate certificate programs will comprise the course.

Those students who enrol initially in one of the Graduate Certificate degrees listed below, will be eligible to progress to the Master of Health Leadership and Management, upon successful completion with an average mark of at least 60 per cent. Candidates will then articulate to the Master of Health Leadership and Management and complete a further 24 credit points of subjects, based on one of the other graduate certificate programs listed below.

At least one of the graduate certificate programs must be chosen from those offered by the Faculty of Health and Behavioural Sciences. As leadership is a core component of this program, students must either complete the Graduate Certificate in Health Leadership and Management OR successfully complete the subject TBS903 Managing People in Organisations within one of the other Graduate Certificates.

### Faculty of Health and Behavioural Sciences

Graduate Certificate in Health Leadership and Management\*

Graduate Certificate in Health Management

Graduate Certificate in Nutrition Management

### Graduate School of Business

Graduate Certificate in Business Administration

Graduate Certificate in Logistics

Graduate Certificate in Management

### Faculty of Informatics

Graduate Certificate in Health Informatics

Graduate Certificate in Information and Communication Technology

Course structures for individual Graduate Certificate degrees can be found in the relevant Faculty's Handbook.

\*To be introduced in Spring 2007. Please contact the Faculty of Health & Behavioural Sciences for more information.

## Master of International Business

Testamur Title of Degree:	Master of International Business
Abbreviation:	MIB
Home Faculty:	Graduate School of Business
Duration:	12 months full-time or part-time equivalent
Total Credit Points:	48 cps
Starting Session(s):	Intake A, B, C, D at Sydney Business School Autumn, Spring, Summer at Wollongong campus
Delivery Mode:	Face-to-face
Location:	Wollongong, Sydney Business School, Dubai
UOW Course Code:	597, SC597, DB597
CRICOS Code:	026342G

## Overview

The Master of International Business (MIB) program prepares students to succeed in managerial and professional positions in the global economy. The globalisation of the market place requires businesses to be ever more innovative and competitive. Managers need to understand the complexities of global culture, political, economic, organisational and financial forces and recognise how they can impact on the success of their business.

This course examines the background of globalisation and teaches the management skills and competencies that are necessary in order to effectively operate in a truly global business environment.

## Entry Requirements

Applicants must have a Bachelor degree or equivalent from a recognised tertiary institution. Applicants must also meet the University's English Language requirements. Refer to the University's website at [www.uow.edu.au/discover/international/](http://www.uow.edu.au/discover/international/)

Those applicants who do not meet the MIB entry requirements listed above, but have a combination of academic qualifications and/or relevant professional work experience, or do not meet the English language entry requirements by a marginal amount may be admitted into the pathway degree, Graduate Certificate in Commerce (GCC). Upon successful completion of the Graduate Certificate in Commerce (GCC) with an average mark of at least 60%, candidates will be eligible for admission to the MIB.

## Advanced Standing

Upon completion of the Graduate Certificate in International Business, students may apply to progress to the Master of International Business and apply for credit for subjects completed under the graduate certificate.

Students are not eligible for credit towards the MIB degree for subjects completed within the Graduate Certificate in Commerce degree.

## Course Requirements

Candidates are required to complete a total of eight (8) subjects (48 cps) according to the list below.

### Course Program

Core Subjects	Credit Points
TBS940 International Project Management	6
TBS950 Quality Management	6
TBS980 International Financial Management	6
TBS981 Employment Relations in an International Context	6
TBS982 Advertising and Marketing in a Global Economy	6
TBS983 International Economic Environment of Business	6
TBS984* Strategic International Business	6
TBS986^ Culture in Business	6

\*This capstone subject is to be undertaken after a minimum of three (3) core subjects have been successfully completed.

^Students may apply to complete either TBS961 Business Spanish Language and Culture or TBS962 Business Chinese Language and Culture as a substitute for TBS986 Culture in Business.

## Credit Towards Other Courses

Upon successful completion of the MIB students may apply to enrol in another of the School's Masters programs and apply for credit for previous postgraduate studies. Those graduates who meet the MBA entry requirements may apply to enrol in the MBA program, and will be required to complete a further six specified subjects as determined by the MBA Course Convenor.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Master of Management

Testamur Title of Degree:	Master of Management
Abbreviation:	MMgmt
Home Faculty:	Graduate School of Business
Duration:	1 year full-time* or 2 years part-time study
Total Credit Points:	48
Delivery Mode:	Evening classes
Starting Session(s):	Intakes A, B, C, D at campuses other than Wollongong Autumn, Spring, Summer at Wollongong
Location:	Wollongong, Loftus, Shoalhaven, Moss Vale, Bega, Batemans Bay
UOW Course Code:	553
CRICOS Code:	048588D

\* this program is offered full-time at Wollongong campus only.

## Overview

The Master of Management (MMgmt) provides an opportunity for practicing managers to enhance their career opportunities by developing further professional, personal and technical skills in key business areas. The MMgmt comprises eight subjects chosen from the overall portfolio of subjects offered at each campus of the GSB in consultation with the MMgmt Course Convenor. The structure of this program is flexible in order to take into account individual professional development needs. The program below represents the recommended study program, however variations may be negotiated on an individual basis upon approval from the Course Convenor.

## Entry Requirements

Applicants must have a Bachelor degree in a relevant discipline from a recognised institution with an average mark of at least 60%.

Those applicants who have a Bachelor degree with an average between 50 and 59 per cent may be admitted provided they have at least two years full-time relevant professional experience.

Applicants must also meet the University's English Language requirements (refer to the University's website at [www.uow.edu.au/discover/international/](http://www.uow.edu.au/discover/international/) for details).

## Course Requirements

Candidates will be required to successfully complete the subjects listed below, determined in consultation with the Course Convenor, totalling 48 credit points. Program variations may be negotiated on an individual basis upon approval from the Course Convenor.

### Core Subjects Credit Points

TBS908	Supply Chain Management	6
TBS913	Innovation Topics and Cases	6
TBS923	Contemporary Issues in Management	6
TBS950	Quality in Management	6

Depending upon the student's background and qualifications, they may be required to complete some of the foundation subjects listed below:

TBS901	Accounting for Managers	6
TBS902	Statistics for Decision-Making	6
TBS903	Managing People in Organisations	6
TBS905	Economic Environment for Business	6

The student may be required to complete other elective subjects including:

TBS909	Corporate Governance	6
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plus other elective subjects as approved by the Course Convenor.

## Advanced Standing

Upon completion of the Graduate Certificate in Management students may apply to progress to the Master of Management and apply for credit for subjects completed under the Graduate Certificate.

## Credit Towards Other Courses

Upon successful completion of the MMgmt, students may apply to enrol in another of the School's Masters programs and apply for credit for previous postgraduate studies. Those graduates who meet the MBA entry requirements may apply to enrol in the MBA program, and will be required to complete a further six specified subjects as determined by the MBA Course Convenor.

## Master of Science (Logistics)

Testamur Title of Degree:	Master of Science (Logistics)
Abbreviation:	MSc (Logistics)
Home Faculty:	Graduate School of Business
Duration:	12 months full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Intake A, B, C, D at Sydney Business School Autumn, Spring, Summer at Wollongong campus
Location:	Wollongong, Sydney Business School
UOW Course Code:	574, SC574
CRICOS Code:	042635F

### Overview

The Master of Science (Logistics) course is designed to provide managers and professionals with the knowledge and expertise in logistics, operations and supply chain management in order to pursue their careers within the manufacturing, transport, service and retail industry sectors. This course examines the chain of enterprises engaged in moving products, services or information from initial suppliers, through various stages of transformation to the ultimate client or customer. Students will learn how to implement a supply chain strategy within an organisation and develop skills in forecasting, production/service planning and scheduling in order to achieve operational excellence. An emphasis is given to information technology systems, analytical tools and computer programs as these are an integral part of top-performing supply chain organisations. Graduates appreciate that developing an understanding of client or customer buying behaviours is essential to designing efficient and effective logistics operations.

The Master of Science (Logistics) is accredited by the Chartered Institute of Logistics and Transport.

### Entry Requirements

Applicants must have a relevant Bachelor degree, typically in (but not restricted to) the areas of Business, Commerce, Engineering, Mathematics or Information Technology, with an average mark of at least 60% from a recognised institution. Applicants who have a Bachelor degree in any other discipline may also be admitted, provided they have completed relevant work experience within the industry, or a demonstrated understanding of the business environment.

Those applicants who do not meet the MSc entry requirements listed above, but have a combination of academic qualifications and/or relevant professional work experience, or do not meet the English language entry requirements by a marginal amount may be admitted into the pathway degree, Graduate Certificate in Commerce (GCC). Upon successful completion of the GCC with an average mark of at least 60%, candidates will be eligible for admission to the MSc.

### Advanced Standing

Upon completion of the Graduate Certificate in Logistics, students may apply to progress to the Master of Science (Logistics) and apply for credit for subjects completed under the graduate certificate.

Students are not eligible for credit towards the MSc degree for subjects completed within the Graduate Certificate in Commerce degree.

### Course Requirements

Candidates are required to complete a total of eight (8) subjects (48 cps) according to the list below.

### Course Program

#### Core Subjects

TBS908 Supply Chain Management

#### Credit Points

6

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	TBS912	Quantitative Methods for Decision Making	6
	TBS918	Strategic Supply Chain Management	6
	TBS928	Logistics Systems	6
	TBS933	Procurement Management	6
	TBS934	Logistics Information Systems	6
Commerce	TBS935	Project Management in Supply Chain	6
	TBS950*	Quality in Management	6
	*Students with non-business background will be required to complete TBS901 Accounting for Managers in lieu of TBS 950.		
Credit Towards Other Courses			
Creative Arts	Upon successful completion of the MSc, students may apply to enrol in another of the School's Masters programs and apply for credit for previous postgraduate studies. Those graduates who meet the MBA entry requirements may apply to enrol in the MBA program, and will be required to complete a further six specified subjects as determined by the MBA Course Convenor.		
Education	Graduate Diploma in Business Administration		
Engineering	Testamur Title of Degree:	Graduate Diploma in Business Administration	
	Abbreviation:	GDipBA	
	Home Faculty:	Graduate School of Business	
	Duration:	1 year full-time or part-time equivalent	
	Total Credit Points:	48	
Graduate School of Business	Location:	Wollongong, Sydney Business School	
	Starting Session(s):	Intake A, B, C, D at Sydney Business School	
		Autumn, Spring, Summer at Wollongong campus	
	Delivery Mode:	Face-to-face	
	UOW Course Code:	1503, S1503	
CRICOS Code:	029140E		
Overview			
Health & Behavioural Sciences	The Graduate Diploma in Business Administration is available for students who wish to undertake a business administration program of shorter duration. The Graduate Diploma program is aimed at providing practising managers with core management competencies and skills. With a strategic focus, the course equips modern managers with conceptual tools and analytical and evaluation techniques.		
Entry Requirements			
Informatics	Applicants must have a Bachelor degree or equivalent from a recognised tertiary institution with an average mark of at least 60%, along with a minimum of two years full-time relevant professional or managerial work experience.		
	Applicants must also meet the University's English Language requirements (refer to the University's website at <a href="http://www.uow.edu.au/discover/international/">www.uow.edu.au/discover/international/</a> for details).		
Advanced Standing			
Law	Upon completion of the Graduate Certificate in Business Administration students may apply to progress to the Graduate Diploma in Business Administration and apply for credit for subjects completed under the Graduate Certificate.		
Course Requirements			
Candidates are required to complete eight (8) subjects (48 cps) according to the list below.			
Course Program			
Science	Subjects		Credit Points
	TBS901	Accounting for Managers	6



TBS903	Managing People in Organisations	6
TBS904	Marketing Management	6
TBS905	Economic Analysis of Business	6
TBS906	Information Systems for Managers	6
TBS907#	Financial Strategy	6
TBS920*	International Business Strategy	6
TBS921*	Strategic Decision Making	6

# TBS901 is a pre-requisite for TBS907.

\*These capstone subjects should ideally be undertaken after all other subjects have been completed.

## Credit Towards Other Courses

Upon completion of the Graduate Diploma in Business Administration, students may apply to progress to the Master of Business Administration (MBA) with credit for previous subjects completed within the discipline.

Applicants should consult the MBA Course Convenor for further information.

## Graduate Certificate in Business Administration

Testamur Title of Degree:	Graduate Certificate in Business Administration
Abbreviation:	GCertBA
Home Faculty:	Graduate School of Business
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	24
Location:	Wollongong, Sydney Business School
Delivery Mode:	Face-to-face
Starting Session(s):	Intake A, B, C, D at Sydney Business School Autumn, Spring, Summer at Wollongong campus
UOW Course Code:	1126, S1126
CRICOS Code:	029139J

## Overview

The Graduate Certificate in Business Administration is available for students who wish to complete an introductory study of the concepts of management. This program is aimed at providing practising managers with key management competencies and skills, including analytical and evaluation techniques.

## Entry Requirements

Applicants must have a Bachelor degree or equivalent from a recognised tertiary institution with an average mark of at least 60%, along with a minimum of two years full-time relevant professional or managerial work experience.

Applicants must also meet the University's English Language requirements (refer to the University's website at [www.uow.edu.au/discover/international/](http://www.uow.edu.au/discover/international/) for details).

## Course Requirements

Candidates are required to complete four (4) subjects (24 cps) according to the list below.

## Course Program

Subjects	Credit Points
TBS901 Accounting for Managers	6
TBS903 Managing People in Organisations	6
TBS904 Marketing Management	6
TBS905 Economic Analysis of Business	6

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Credit Towards Other Courses

Upon completion of the Graduate Certificate in Business Administration, students may apply to progress to either the Graduate Diploma in Business Administration or the Master of Business Administration (MBA) with credit for previous subjects completed within the discipline.

Applicants should consult the MBA Course Convenor for further information.

## Graduate Certificate in Business

Testamur Title of Degree:	Graduate Certificate in Business
Abbreviation:	GCertBus
Home Faculty:	Graduate School of Business
Duration:	12 months part-time study
Total Credit Points:	24
Location:	Wollongong
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn, Spring
UOW Course Code:	1138
CRICOS Code:	N/A

## Overview

The Graduate Certificate in Business is specifically designed for University of Wollongong Doctor of Philosophy (PhD) students enrolled in faculties other than the Graduate School of Business and the Faculty of Commerce. In today's environment of intense competition, the aim of this program is to provide students with an introduction to business, management and professional skills and knowledge that will give PhD graduates a competitive edge.

## Entry Requirements

Candidates must be currently enrolled in a Doctor of Philosophy at the University of Wollongong.

## Course Requirements

Candidates are required to complete four (4) subjects (24 credit points) according to the list below. Two compulsory subjects are to be completed, along with two elective subjects that are to be selected in consultation with the Course Convenor from the list below.

## Course Program

Core Subjects	Credit Points
TBS901     Accounting for Managers	6
TBS903     Managing People in Organisations	6

### Electives

Candidates must complete two subjects (12 cps) selected from the list below as approved by the Course Convenor. Students are advised to select elective subjects not within the discipline area/s of their research thesis.

### Engineering

ENGG951     Engineering Project Management	6
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### Information Technology Systems

TBS906     Information Systems for Managers	6
BUSS907     Fundamentals of E-Business	6

### Law

LAW960     Legal Studies for Professionals	6
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### Ethics

PHIL935     Applied Ethics	6
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### Innovation and Entrepreneurship

ENGG950     Innovation and Design	6
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MGMT940	Innovation and Entrepreneurship	6
MGMT941	Small Business Management	6
<b>Marketing</b>		
TBS904	Marketing Management	6
<b>Statistics</b>		
STAT903	Survey Design and Analysis	6

## Graduate Certificate in Commerce

Testamur Title of Degree:	Graduate Certificate in Commerce
Abbreviation:	GradCertCom
Home Faculty:	Graduate School of Business
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	24
Location:	Wollongong
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn, Spring
UOW Course Code:	1154
CRICOS Code:	055108M

### Overview

The Graduate Certificate in Commerce is a pathway program which progresses into various Masters degrees within the GSB and Faculty of Commerce. This program is completed by those applicants who do not have either:

- The English language level for the coursework Masters degree, however reach the English level required for this Graduate Certificate or,
- Do not have a degree in the relevant discipline required for entry into the Masters program.

This Graduate Certificate will provide students with the knowledge and skills required to then complete the subsequent Masters degree.

### Entry Requirements

Applicants should have a Bachelor degree or equivalent from a recognised tertiary institution. Those applicants with a combination of academic qualifications and/or relevant professional work experience may also be considered.

Applicants must also meet the University's English Language requirements for this degree (refer to the University's website at [www.uow.edu.au/discover/international/](http://www.uow.edu.au/discover/international/) for details).

### Course Requirements

Candidates are required to complete 24 credit points of 200, 300 or 900 level subjects as approved by the relevant Course Convenor.

### Credit Towards Other Courses

Students are not eligible for credit for subjects completed under the Graduate Certificate towards their subsequent Masters degree.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Graduate Certificate in International Business

Arts	Testamur Title of Degree:	Graduate Certificate in International Business
	Abbreviation:	GCertIB
	Home Faculty:	Graduate School of Business
	Duration:	6 months full-time or part-time equivalent
Commerce	Total Credit Points:	24 cps
	Location:	Wollongong, Sydney Business School
	Delivery Mode:	Face-to-face
	Starting Session(s):	Intake A, B, C, D at Sydney Business School
Creative Arts	UOW Course Code:	Autumn, Spring, Summer at Wollongong campus 1141, S1141
	CRICOS Code:	0470056

### Overview

The Graduate Certificate in International Business provides candidates with the opportunity to complete an introductory study of global business and management issues. This course has an international business strategy focus.

### Entry Requirements

Applicants must have a business related Bachelor degree or equivalent from a recognised tertiary institution. Applicants must also meet the University's English Language requirements (refer to the University's website at [www.uow.edu.au/discover/international/](http://www.uow.edu.au/discover/international/) for details).

### Course Requirements

Candidates are required to complete four (4) subjects (24 credit points) selected from the Master of International Business course structure as approved by the MIB Course Convenor.

### Credit Towards Other Courses

Upon completion of the Graduate Certificate in International Business, students may apply to progress to the Master of International Business degree with credit for previous subjects completed within the discipline.

Candidates should consult the MIB Course Convenor for further information.

## Graduate Certificate in Logistics

Health & Behavioural Sciences	Testamur Title of Degree:	Graduate Certificate in Logistics
	Abbreviation:	GCertLog
	Home Faculty:	Graduate School of Business
	Duration:	6 months full-time or part-time equivalent
Informatics	Minimum Total Credit Points:	24
	Location:	Wollongong, Sydney Business School
	Delivery Mode:	Face-to-face
	Starting Session(s):	Intake A, B, C, D at Sydney Business School
Law	UOW Course Code:	Autumn, Spring, Summer at Wollongong campus 1142, S1142
	CRICOS Code:	042560J

### Overview

The Graduate Certificate in Logistics provides candidates the opportunity to complete an introductory study of the concepts of logistics and operations management. This course is designed for professionals and managers working within the logistics and operations management area, providing students with a foundation of skills required to manage the flow of materials and information within and between organisations.

The Graduate Certificate in Logistics is accredited by the Chartered Institute of Logistics and Transport.

## Entry Requirements

Applicants must have a relevant Bachelor degree, typically in the areas of Business, Commerce, Engineering, Mathematics or Information Technology, with an average mark of at least 60 % from a recognised institution. Applicants who have a Bachelor degree in other disciplines may be admitted, providing they have completed relevant work experience within the industry, or a demonstrated understanding of the Business Environment.

Applicants must also meet the University's English Language requirements (refer to the University's website at [www.uow.edu.au/discover/international/](http://www.uow.edu.au/discover/international/) for details).

## Course Requirements

Candidates are required to complete four (4) of the seven (7) core subjects (24 cps) selected from the list below:

### Course Program

Subjects	Credit Points
TBS908 Supply Chain Management	6
TBS912 Quantitative Methods for Decision Making	6
TBS918 Strategic Supply Chain Management	6
TBS928 Logistics Systems	6
TBS933 Procurement Management	6
TBS934 Logistics Information Systems	6
TBS950* Quality in Management	6

\*Students with non-business background may be required to complete TBS901 Accounting for Managers in lieu of TBS950.

### Credit Towards Other Courses

Upon completion of the Graduate Certificate in Logistics, students may apply to progress to the MSc (Logistics) degree with credit for previous subjects completed within the discipline. Candidates should consult the Logistics Course Convenor for further information.

## Graduate Certificate in Management

Testamur Title of Degree:	Graduate Certificate in Management
Abbreviation:	GCertMgmt
Home Faculty:	Graduate School of Business
Duration:	6 months full-time* or 12 months part-time study
Total Credit Points:	24
Location:	Wollongong, Loftus, Shoalhaven, Moss Vale, Bega, Batemans Bay
Delivery Mode:	Face-to-face
Starting Session(s):	Intake A, B, C, D at campuses other than Wollongong Autumn, Spring, Summer at Wollongong
UOW Course Code:	692
CRICOS Code:	020195G

\*The program is offered full-time at Wollongong campus only.

### Overview

The Graduate Certificate in Management is designed to provide a meaningful introductory study to the concepts of management and management practice.

### Entry Requirements

Applicants must have a relevant professional qualification (minimum 2 years full-time study) along with at least two years relevant professional work experience. Applicants must meet the University's English Language requirements (refer to the University's website at [www.uow.edu.au/discover/international/](http://www.uow.edu.au/discover/international/) for details).

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Course Requirements

Candidates are required to complete 24 credit points (four subjects) determined in consultation with the Course Convenor.

## Credit Towards Other Courses

Upon completion of the Graduate Certificate in Management, students may apply to progress to the Master of Management (MMgmt) degree with credit for previous subjects completed within the discipline.

Candidates should consult the Course Convenor for further information.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## SUBJECT DESCRIPTIONS

### TBS 901 Accounting for Managers

Autumn Wollongong On Campus  
Intake D Sydney Modular  
Intake B Loftus Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** TBS980

**Subject Description:** This subject is intended for those who need to obtain a better understanding of the principles of accounting and financial management. No previous knowledge or experience is assumed. The subject will introduce you to the role that effective financial management makes within an organisation. The aim is to make you proficient in the use of the accounting data that you receive in your work environment, as well as making you aware of the basis on which key financial decisions are made. You will be introduced to the basic concepts of financial decision-making and the role of financial management in both private and public sector organisations. The concepts and techniques will assist you in the use and interpretation of accounting data and you will become better acquainted with the planning and controlling of resources you have at your disposal.

### TBS 902 Statistics for Decision Making

Autumn Wollongong On Campus  
Spring Wollongong On Campus  
Intake A Loftus Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** ECON940

**Subject Description:** This unit will provide an in-depth introduction to probability, decision theory, and statistical inference with emphasis on solutions to actual business problems. After developing a foundation in probability theory, the subject will extend this foundation to a set of methodologies for the analysis of decision problems. The unit examines structures for managerial decision making under conditions of partial information and uncertainty. The examination of the use of statistical techniques in managerial decision making processes, including, confidence intervals, hypothesis testing, quality control, simple and multiple regression and factor analysis should be applied in realistic case situations.

### TBS 903 Managing People in Organisations

Spring Wollongong On Campus  
Intake A Sydney Modular  
Intake C Loftus Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to ideas about managing people in organisations which thematically combine theories and research in organisational behaviour and human resource management. The subject encourages students to think about management and organisations in ways which are multi-disciplinary, problem solving and critical. It encourages intellectual inquiry and debate using a range of sources: theoretical, journalistic, historical, comparative and

quantitative. The subject encourages students to evaluate popular management fads in the light of more rigorous theorising and research. It aims to improve the research, critical thinking, writing and speaking skills of students.

### TBS 904 Marketing Management

Intake C Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** MARK922

**Subject Description:** This subject examines the contemporary view of marketing and focuses on the following areas: identification of marketing opportunities; market segmentation, targeting and positioning; product life cycle; new product development; services marketing and marketing mix decisions.

### TBS 905 Economic Analysis of Business Environment

Intake B Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject aims to introduce to students, and develop their understanding of, core economic concepts relevant to business and managerial decision-making, in order that they may identify and interpret those economic events and circumstances which influence the operations of business. Commencing with the (microeconomic) examination of the behaviour of individual economic units, the subject develops to provide a view of macroeconomics and its application to the functioning of the economy overall. National accounts systems are introduced, and the macroeconomic approach is that relevant to an open economy of the type in which real businesses operate. It is a course objective to equip students to be able to read and understand published articles on business and the broader economy, and interpret these as to their impact on business and government organisations, and such material will be used in class.

### TBS 906 Information Systems for Managers

Autumn Wollongong On Campus  
Intake B Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides an understanding of the management of information systems in organisations, in particular, it provides an analysis of the approaches to managing information and knowledge as well as the techniques for ensuring information quality. Other issues considered are the creation of strategies to resource and control information flows and usage within an organisation; the management of information system projects and the impact of change their implementation has on staff; the use of technology and people to improve the quality information services

### TBS 907 Financial Strategy

Spring Wollongong On Campus  
Intake C Sydney Modular

**Credit Points:** 6

**Pre-requisites:** TBS901 or TBS980

Arts
Commerce
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Health & Behavioural Sciences
Informatics
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Science

Arts	<b>Co-requisites:</b> None <b>Exclusions:</b> FIN 921 <b>Subject Description:</b> This subject provides an introduction to the theory and practice of financial management. The financial manager plays a key role in the development of a company's strategic plan. In particular s/he is concerned with providing advice on which investment opportunities should be undertaken and how they should be financed. Both of these decisions should be taken in the context of maximising the value of the investment made in the company by its shareholders. Investment of funds in assets determines the size of the company, its profits from operations, its business risk and its liquidity. Obtaining the best mix of financing and dividends determines the company's financial charges and its financial risk; which in turn impacts on its valuation. It is the aim of this course to examine many of these issues.		
Commerce			
Creative Arts			
Education	<b>TBS 908 Supply Chain Management</b> Autumn Wollongong On Campus Intake C Sydney Modular Intake D Loftus Modular Intake D Shoalhaven Modular <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Supply Chain Management extends the study of logistics beyond the boundaries of a single organisation, and places particular emphasis on the interfaces between the 'chain' or 'network' of enterprises engaged in moving products, services, and information, from suppliers through intermediaries to end users/consumers. The early part of the subject focuses on understanding the concepts and principles of supply chain management. Supply chain infrastructure and operations topics are reviewed giving emphasis on topics such as JIT, lean, and agile supply chain. Channel relationships between suppliers, manufacturers, and distributors is also reviewed, particularly as leading organisations are now openly embracing more collaborative behaviour for mutual benefit. Transformational change in supply chains is studied from two perspectives, i.e., re-alignment inside the supply chain itself, and new advanced forms of 'outsourcing'. Finally, we live in Asia Pacific, so it is important to understand the regionalisation of supply chains which is well underway, and in some cases, globalisation		
Engineering			
Graduate School of Business			
Health & Behavioural Sciences			
Informatics	<b>TBS 909 Corporate Governance</b> Spring Wollongong On Campus Intake A Sydney Modular <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The broad aim of this subject is to identify, explain and evaluate the sometimes competing approaches to corporate governance and business ethics that have defined the terms of the governance debate, to assess the role of public policy in designing and overseeing effective systems of corporate governance and to examine the relationship between governance issues and business. This will provide students with a sound understanding of the complex issues that have to be faced by industry and government in developing effective, and ethical, corporate governance systems.		
Law			
Science			

<b>TBS 912 Quantitative Methods for Decision Making</b> Autumn Wollongong On Campus Intake D Sydney Modular <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject focuses on the quantitative techniques available to managers in problem solving and decision making in businesses. The subject aims to develop in students the skills necessary for data analysis, model building and analysis for business decision-making. To this end the subject covers areas such as decision making under certainty and uncertainty, linear programming, transportation and transshipment techniques, project scheduling with certainty and uncertainty, waiting line models, goal programming, Analytic Hierarchy Process and simulations. In this subject, the emphasis is given on the analysis and interpretation of the results provided by the models.		
<b>TBS 913 Innovation Topics and Cases</b> Intake B Loftus Modular Intake B Shoalhaven Modular <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject covers integration issues that must be confronted and managed to create value from technological and business innovation, including: initiating innovation and incubating novel thinking, technological innovation, the innovation process, theories of innovation, planning innovation, strategy and innovation, R & D management, economic justification and innovation, new products and processes, operations strategy and innovation, process innovation, managing future technologies, public policy and technological innovation, and globalising change.		
<b>TBS 914 Business in Asia</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The core element of the ASIAM program examines the spectacular growth in the tiger economies, and focuses on South Korea, Malaysia, China and Indonesia. Forms of government, the structure of industry, inward investment, sourcing, trading relationships, government/ business relationships and business style are some of the issues addressed. Students visit local organisations and meet senior managers.		
<b>TBS 915 International Supply Chain Management</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The main theme of this subject is the alignment of supply chains with customers and suppliers to create new value. The role of 3PLs and 4PLs is also critically reviewed, and new business models are proposed for managing future supply chains. This subject will introduce the unique 'alignment' framework, and then work through all the components necessary for		



it's successful operation, from customer segmentation at the user end, to supplier relationships at the sourcing end. This subject is a 'must' for any executive wishing to be at the vanguard of latest thinking in the design and operation/ implementation of high-performance supply chains in all goods and services sectors.

### **TBS 916 Knowledge Management: The Asia Pacific Perspective**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In the Knowledge Economy, the generation and exploitation of knowledge plays the predominant role in the creation of wealth, and knowledge has become the most important factor in economic growth. At the enterprise level, corporate investment in knowledge and related intangibles is growing at a faster rate than tangible investment in all developed economies. This unit critically evaluates knowledge strategies at the national and enterprise level, and confirms elements of effective knowledge management in the Asian context. Firstly, national knowledge-based strategies for economic growth in Singapore, Korea, Malaysia and Australia will be examined. Secondly, knowledge strategies adopted by leading Asian firms (based on Most Admired Knowledge Enterprises - Asia 2003) will be reviewed. Based on the analyses, success criteria for knowledge management in Asia at national and enterprise levels will be identified.

### **TBS 917 Strategic Negotiation for International Business**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This unit will provide a close examination of the dynamics of the process of negotiation. This will be achieved through an exploration of negotiation theory and research and through the practical exercise of various negotiating techniques. This theory into practice approach will encourage students to develop a strategic rather than reactive perspective to the task of reaching an agreement through negotiation. The unit will also critically examine the inter-cultural dimensions of negotiation.

### **TBS 918 Strategic Supply Chain Management**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Intake B Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject extends the study of Supply Chain Management from the introductory level and examines the development of organisational strategy in the context of supply chain management. The overarching framework around which the course content is organised is the supply chain management performance/capability continuum, which consists of three critical components - operational excellence, supply chain integration and, collaboration and virtual supply chains.

### **TBS 920 International Business Strategy**

Autumn Wollongong On Campus

Intake A Sydney Modular

Intake C Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: TBS984

**Subject Description:** This subject provides a detailed introduction to management within an international business perspective. Business is becoming increasingly global and firms require managers who understand and can resolve the challenges faced in surviving and succeeding in this competitive, diverse and dynamic environment. The subject seeks to integrate a range of disciplines including economics, management, global finance, marketing, operations management, and socio-cultural and political sciences, into a program focussed on the application of such disciplines to real business challenges. The subject therefore intends to build the students awareness of the complexity and dynamic nature of international business, and build their capacity to think and respond strategically. Managers capable of operating effectively in this environment will have truly global skills and will enhance their career prospects in today's exciting international business context.

### **TBS 921 Strategic Decision Making**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Intake B Sydney Modular

Intake D Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is theory and case based and will provide a study of the development of strategic decision-making and its application to corporate strategy. The subject consists of three main sections: strategic analysis, strategic choice and strategy implementation. However, it is more realistic to consider these from an integrated point of view and students will be strongly encouraged to develop holistic ideas of strategic decision-making, with emphasis on solutions to actual business challenges. Students should also realise that much of the strategic thinking that will be covered in this subject is also relevant to not for profit organisations. The theme throughout the subject will be to assess strategic capability and determine appropriate strategic actions, by developing a sound understanding of the mechanisms behind industry opportunities and threats. That is not to say that a purely mechanistic view is appropriate. Creativity, divergent lateral thinking and some understanding of risk management are essential requirements. The ability to find company information and develop a sophisticated understanding of case information are also skills that will be developed to encourage an educated approach to strategic decision-making.

### **TBS 923 Contemporary Issues in Management**

Intake C Loftus Modular

Intake C Shoalhaven Modular

**Credit Points:** 6

**Pre-requisites:** None

Arts
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Arts	<p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> TBS 923 Contemporary Issues in Management provides a broad view of currently topical issues in management through the study, analysis and discussion of relevant readings on each issue. The subject's approach is based on initial study of the selected readings, complemented by development of theoretical aspects where required, followed by group discussion and analysis of each issue. Assessment for the subject will be based on essay submissions for each issue covered, normally three in number, as well as a take home final examination.</p>		
Commerce	<p><b>TBS 924 Management Project</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 12</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Students are required to present a management report, to agreed guidelines and to a maximum length of 10,000 words. This project relate to a student's chosen area of specialisation within the MBA.</p>		
Creative Arts			
Education	<p><b>TBS 925 Inventory Management</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> TBS 930</p> <p><b>Co-requisites:</b> TBS930 may be completed simultaneously with TBS 925.</p> <p><b>Subject Description:</b> This subject aims to provide the student with state-of-the-art knowledge of inventory management theory and practice. Topics included will be as follows: materials management; management of storage and retrieval facilities; types of inventory problems; measuring inventory performance; inventory management systems for independent demand items; influence of forecasts and uncertainties of demand and lead time; dependent demand inventory systems; multi-echelon inventory management; decision models for inventory management; simulation models of inventory management systems; and case studies of world-class inventory management.</p>		
Engineering			
Graduate School of Business			
Health & Behavioural Sciences	<p><b>TBS 926 Manufacturing Management</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Manufacturing industry dynamics and manufacturing strategy, value adding in manufacturing, materials flow, manufacturing planning and control including MRP II, ERP, JIT and OPT. Maintenance management, supply procurement, distribution quality control, assurance and improvement, manufacturing information technology, performance management, concept of lean and agile manufacturing. Students are expected to undertake a substantial mini-project that is usually case-based, preferably on an aspect of the student's work experience.</p>		
Informatics			
Law			
Science	<p><b>TBS 928 Logistics Systems</b></p> <p>Spring Wollongong On Campus Intake A Sydney Modular</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p>		

**Subject Description:** Logistics Systems is an advanced course in logistics and supply chain management. It involves design and management of supply chain systems. It prepares students for logistics management positions in manufacturing, transportation and distribution firms. The application of analytical techniques, simulations and computer software to selected aspects of distribution management is explored in the course. Attention will be given to areas of network planning, inventory control, facility location, vehicle routing and scheduling of logistics systems. Mathematical models in these areas will be discussed in terms of their ability to represent the problem and usefulness to the managers. Cases will be used to demonstrate the nature of decision making problems managers face in logistics and supply chain management in contemporary business and class discussion will take place about the repercussions of alternative decisions.

### TBS 929 Management of Process Innovation

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A key concern of contemporary technology management is improving the rate and quality of process innovation by adopting new methods to successfully integrate environmental, human, organisational and technological factors. This subject introduces the student to the interdependent human and technological character of work systems and provides principles and methodologies for designing more effective organisations. This subject is focused on the 'design' aspects of process innovation and covers in some detail socio-technical system design.

### TBS 930 Operations Management

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is a study of the design, analysis, decision-making and operations of activities for the production and delivery of goods and services. Topics include: strategic issues, qualitative and quantitative forecasting, facility location, capacity and layout, production planning, scheduling, management of quality, supply chain management and e-business, just-in-time and lean manufacturing, and project management. Whilst some calculations will be part of this subject, the emphasis will be more on the managerial interpretation of the methods and results.

### TBS 932 Service Operations

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The service sector is an important and growing part of the economy. As a result, service operations management and its impact is widespread. Services and service operations management have some similarities to manufacturing and production management yet numerous differences exist and will be highlighted. The subject will focus on

three primary areas of knowledge: understanding the nature of services, designing efficient and competitive services and managing the delivery of services.

### **TBS 933 Procurement Management**

Autumn Wollongong On Campus  
Intake A Sydney Modular  
Intake C Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Today, the function that used to be called purchasing or procurement, has expanded to become supply management. Supply management is a progressive approach to managing the supply base that differs from a traditional arm's length or adversarial approach with suppliers. This subject looks at the expanded responsibility of procurement and its integration with long-term strategic corporate planning. Procurement now includes participating collaboratively in key material requirements determinations, supply management and warehousing and inventory management. It focuses on the management of supplier relations and performance. This subject incorporates all these areas in the development of procurement and supply chain management.

### **TBS 934 Logistics Information Systems**

Autumn Wollongong On Campus  
Intake D Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject centres on how information technologies will transform the business landscape, with a particular emphasis on logistics and supply chains. Lectures highlight logistics management process analysis, value and productivity performance measurement of information technology investments, and the impact of ERP and RFID on supply chain strategy.

### **TBS 935 Project Management in Supply Chain**

Autumn Wollongong On Campus  
Spring Wollongong On Campus  
Intake A Sydney Modular  
Intake B Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The field of logistics/supply chain management and enterprises exists today in an ever-changing business context. In addition to operationalising a supply chain management system, practitioners are facing many complex challenges such as supply management, logistics planning, distribution, and inventory planning as well as environmental and security issues. The main focus of this subject is on understanding these issues which are constantly being faced by business logistics managers and methods for analysing these issues, as well as the impact of supply chain management on current and future trends in business such as advances in computers and information technology in practical settings. The subject is discussed from a managerial, practice-oriented perspective, with a project management flavour.

### **TBS 940 International Project Management**

Autumn Wollongong On Campus  
Intake A Sydney Modular  
Intake C Sydney Modular  
Intake D Loftus Modular  
Intake A Shoalhaven Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: MGMT986

**Subject Description:** All sectors of industry, including production or servicing as well as public sector organisations, are increasingly applying the principles of Project Management. Add to this the international factor and project management can become challenging. In the 'global economy', more educated, demanding and litigious customers are creating a strong need for flexible and quick response capabilities in organisations, together with strong accountability mechanisms. Managers who are confident in conceiving, planning, implementing and managing international projects are building organisational and personal capabilities which will enhance their organisations – whether manufacturing, service or 'not for profit'. This subject analyses key issues for Project Management, including the definition of a project, impacts on the management of these due to culture, organisational structure, risk management, and leadership influences.

### **TBS 950 Quality in Management**

Autumn Wollongong On Campus  
Spring Wollongong On Campus  
Intake A Sydney Modular  
Intake B Sydney Modular  
Intake D Sydney Modular  
Intake A Loftus Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject addresses the quality issues from the supply chain perspective. It covers the following topics: the quality imperative for the open economy; concepts of quality; quality in service and manufacturing organisations; quality control and assurance; quality costs; tools of TQM; quality function deployment; six sigma implementation; principles of Taguchi methods and robust quality; international quality assurance standards; HRM in quality; case studies in quality management.

### **TBS 951 Statistics for Quality Management**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: TBS902

**Subject Description:** Topics covered in this subject include quality theory including 'six sigma' and the 'seven tools of quality'. This subject has a comprehensive approach to statistics to meet the needs of students from diverse backgrounds. The subject provides a theoretical and practical grounding in statistical process quality (SPC). Students will be required to demonstrate their understanding of SPC using real case studies from organisations or companies selected by the student. The

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Arts	subject will create a direct link between statistical concepts delivered in lectures and real cases in the area of quality and a direct link between SPC and regression analysis.	
Commerce	<b>TBS 952 Implementing Quality Systems</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> TBS950 <b>Co-requisites:</b> None <b>Subject Description:</b> This subject briefly reviews basic Quality philosophies– with an emphasis on system, cost, problem solving and people improvement. It concentrates on systems thinking as a key factor in understanding and improving quality, the development of a learning organization, and ultimately the achievement of customer loyalty. TBS 952 also reviews the fundamentals of the Quality organization: ISO 9000, Six Sigma and other Quality systems that play a role in TQM. The course introduces practical Quality systems (eg: Kaizen, improvement methodologies and QI tools), Quality Function Deployment (QFD), measure of conformance and the prevention of non-conformance. The behaviour, commitment, and involvement of people in a Quality organization are explored, including: team working, the team approach to problem solving, and the roles of management, suppliers, and customers in a Quality environment. Implementation examples are provided through a case study that features the identification and improvement of quality systems.	Organisations in a post industrial rapid change economy. Issues covered emphasise Organisational Performance Measurement (OPM) and improvement, and develop intellectual frameworks for:- the contribution of good design to the effective management of quality systems in organisations; the establishment of new styles of competitive advantage through quality systems in Learning Organisations; using OPM to improve specific quality environments and the development of case studies for good organisational design; coverage of methodologies for designing and integrating quality into organisational systems, and a futures perspective on the likely successful features of quality organisations in non ferrous manufacturing environments such as transgenics, nanotechnologies, molecular manufacturing.
Creative Arts		<b>TBS 955 Quality Assurance</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> TBS950 and TBS952 <b>Co-requisites:</b> None <b>Subject Description:</b> This course provides an opportunity for specialised study within the Quality management program, by developing the following frameworks of understanding: • the terminologies and purposes of Quality Assurance; • studies of selected methodologies Quality Assurance; • a Case study in quality assurance: • preparing an organisation for a selected QA accreditation
Education		
Engineering	<b>TBS 953 Management of Service Quality</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> TBS950 <b>Co-requisites:</b> TBS950 may be completed as a co requisite. <b>Subject Description:</b> This subject explores the dimensions of successful service firms. It prepares students for enlightened management and suggests creative entrepreneurial opportunities. Outstanding service organizations are managed differently than their ‘merely good’ competitors. Actions are based on totally different assumptions about the way success is achieved. The results show not only in terms of conventional measures of performance but also in the enthusiasm of the employees and quality of customer satisfaction. Beginning with the service encounter, service managers must blend marketing, technology, people, and information to achieve a distinctive competitive advantage. This subject will study service management from an integrated viewpoint with a focus on customer satisfaction. The material will integrate operations, marketing, strategy, information technology and organizational issues. Finally, because the service sector is the fastest-growing sector of the economy, this course is intended to help students discover entrepreneurial opportunities.	
Graduate School of Business		<b>TBS 961 Business Spanish Language and Culture</b> Spring Wollongong On Campus Intake A Sydney Modular <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is intended for those who wish to acquire knowledge of the Spanish language for use in a practical business context. It has been designed for those seeking to build business relationships with Spanish speaking people at a managerial level. The language functions and the business vocabulary presented in the course are appropriate to a number of commercial situations. Participants will also study socio/ economic/ political features of a number of key Spanish speaking countries. The main emphasis of the course is on oral skills. Students will be encouraged to practice speaking in class in pairs or groups (setting up role-plays adapted to topics used in the lesson). Students will also discover how you best learn a language and will be encouraged to use website resources and authentic materials (listening to tapes, radio, programmes, reading papers and brochures).
Health & Behavioural Sciences		
Informatics		
Law		<b>TBS 962 Business Chinese Language and Culture</b> Autumn Wollongong On Campus Intake C Sydney Modular <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is intended for those who wish to acquire a knowledge of Chinese for use in a practical business context. It has been designed for those seeking to build business relationships with Chinese speaking people at a managerial level.
Science	<b>TBS 954 Quality Management and Design</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> TBS950: Quality Systems for Competitive Advantage. <b>Co-requisites:</b> None <b>Subject Description:</b> This course emphasises the application of organisation level improvement techniques in the effective management of Learning	

The language functions and the business vocabulary presented in the course are appropriate to a number of commercial situations. Participants will also study socio/ economic/ political features of a number of key Chinese speaking countries. This subject is an introductory course for beginners. Students are expected to complete private study to achieve the expected result. Emphasis will be on the practical use of the language, in terms of speaking, listening and writing. Students are also expected to achieve a better understanding of the social and cultural context of the language.

### **TBS 970 Management Project Planning**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

### **TBS 971 Quality Management Project**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** TBS970

**Co-requisites:** None

### **TBS 980 International Financial Management**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Intake B Sydney Modular

Intake D Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ACCY905 or FIN 928 or TBS 901

**Subject Description:** This subject introduces students to financial management in an international context.

The topics covered include the following: financial environment of international corporate activity; foreign exchange and derivatives markets; methods of foreign exchange risk measurement and management; overview of international financial markets and instruments; financing of foreign trade and foreign direct investments; international working capital management; investment decision making in an international context, including country risk analysis; international aspects of controlling, reporting and performance analysis; effects of government regulation on management decision making.

### **TBS 981 Employment Relations in an International Context.**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Intake B Sydney Modular

Intake D Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** On successful completion of this subject students should be able to understand the complexities of human resource management and employment relations in the current international context. They should be able to deal with material on international human resource management and employment relations from an academic and practical perspective.

### **TBS 982 Advertising and Marketing in a Global Economy**

Spring Wollongong On Campus

Intake A Sydney Modular

Intake C Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The objective of this subject is to provide a background in global marketing and both a theoretical and practical perspective to advertising communications and promotion management in a global economy. Thus, by adopting the perspective of the product manager or marketing manager, the subject examines the development and implementation of advertising and promotional programmes to facilitate global marketing.

### **TBS 983 International Economic Environment for Business**

Spring Wollongong On Campus

Intake A Sydney Modular

Intake C Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject aims to introduce to students, and develop their understanding of, those factors shaping the international economic environment in which business now operates. The subject examines the background to globalisation and then three core areas of international business. These (trade and trade barriers, international investment and foreign exchange) will be considered separately and then together in the context of the major international institutions charged with promoting trade, investment and monetary stability.

### **TBS 984 Strategic International Business**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Intake B Sydney Modular

Intake D Sydney Modular

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: TBS920

**Subject Description:** This subject provides an introduction to management within an international business perspective. Business is becoming increasingly global and firms require managers who understand and can resolve the challenges faced in surviving and succeeding in this competitive environment. Greater internationalisation of business requires firms to be more competitive, dynamic and, interdependent. Managers must understand the complexities of global cultural, political, economic, organisational, and financial forces and recognise how they affect their firm. Management challenges include dealing with the uncertain external environment, handling the increased risk of international operations, and developing appropriate international strategies. Managers capable of operating in this environment will have truly global skills and will enhance their career prospects in today's exciting international business context.

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Arts	<b>TBS 985 Communication for International Business</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ELL901 or ELL903 <b>Subject Description:</b> This subject provides opportunity for students to develop the various communication skills essential to academic and in international business environments. The academic and general literacy skills targeted include efficient gathering, critical analysis and effective presentation of information, taking effective notes, summarising, reporting and avoiding plagiarism, while professional communication skills may include interviewing, and collaborative writing of business reports. Supported by web-based resources, the subject is delivered through intensive workshops, which involve continual development and assessment of: vocabulary, reading comprehension, goal setting and task analysis, group work, critical discussion, summarising and reporting, public speaking and text editing. The communications to be practised relate directly to the other core subjects of the MIB program.
Commerce	
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Engineering	<b>TBS 986 Culture in Business</b> Autumn Wollongong On Campus Intake A Sydney Modular Intake C Sydney Modular <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: MGMT978, TBS961 and TBS962 <b>Subject Description:</b> This subject is theory and case based and will explore the impact of cultures on business practices, particularly in the context of the increasing pressure of globalisation. Topics include culture in business, culture and religion, communication, management practices, and implications for global business including HRM and negotiations. On successful completion of the subject students will have an understanding of how international businesses can be effectively managed and business failures related to cultural issues minimised. Students will be able to understand the cultural dynamics within global businesses.
Graduate School of Business	
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Informatics	<b>TBS 990 Special Topic in Business</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Topic to be approved by the Dean of the Graduate School of Business and Professional Development.
Law	
Science	<b>TBS 995 Business Research - Principles and Processes</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will enable students to develop various business-related research skills with an emphasis on integrative approaches, although discipline

based research approaches will also be canvassed. Students will develop the skills of critical analysis of business theory both on the basis of its own assumptions and structure and by exploration of the related research literature. Students also investigate the skills of lateral thinking as they relate to business practice and innovation allowing them to demonstrate a high level of information gathering skills.

### **TBS 996 Research Methodology: Qualitative and Quantitative**

*Not on offer in 2007*

**Credit Points:** 12

**Pre-requisites:** TBS 995

**Co-requisites:** None

**Subject Description:** In this subject students will examine epistemology in social science and business research, and then explore the foundations for choosing methods and techniques in advanced applied business research. This will allow students to demonstrate knowledge of the methodologies underpinning business. Students will develop and extend analytical skills required for successful doctoral research, including statistical techniques, the use of research software, case studies, ethnography, and surveys, as well as ethical issues in business research, and the influence of ethical considerations on research methods and methodology. This knowledge will allow students to demonstrate their expertise in research methodology, both qualitative and quantitative.

### **TBS 997 Literature Review and Annotated Bibliography**

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** TBS 995 & TBS 996

**Co-requisites:** None

**Subject Description:** This subject is an integral component of the Doctor of Business Administration (DBA) program. It will give students the opportunity to build on the research and analytical skills they have been able to develop in TBS995 and TBS996, and to carry out a literature review which is focussed on the research design for the topic they plan to examine in their DBA thesis. Students review the literature in the content and methodology areas of their thesis topic and produce a formal literature review and annotated bibliography. These two items, particularly the literature review, can be expected to form part of the thesis.

### **TBS 998 Proposal and Defence**

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** TBS 995, TBS 996, TBS 997

**Co-requisites:** None

**Subject Description:** This subject is designed for the Doctor of Business Administration (DBA) program. It will give students who have completed the first three subjects in the DBA the opportunity to build on the skills developed there, and to develop, defend and receive feedback on the research proposal which will form the basis of their DBA dissertation. The outcomes of the subject can be expected to form part of the eventual dissertation.

# Faculty of Health and Behavioural Sciences

## Degrees Offered

### Research

Doctor of Philosophy  
 Doctor of Philosophy (Clinical Psychology)  
 Doctor of Public Health  
 Master of Midwifery – Research  
 Master of Nursing – Research  
 Master of Science – Research  
 Master of Science – Research (Psychology)

### Coursework (by Academic Unit)

#### School of Health Sciences

Master of Science

- Exercise Rehabilitation
- Nutrition
- Nutrition and Dietetics
- Nutrition/Dietetics and Exercise Rehabilitation
- Occupational Health and Safety

Graduate Diploma in Science

- Biomedical Science
- Exercise Rehabilitation

Graduate Certificate in Occupational Health and Safety

Master of Health Management

Master of Health Leadership and Management

Master of Public Health

Master of Science (Population Health)

Graduate Certificate in Public Health

Graduate Certificate in Health Leadership and Management\*

Graduate Certificate in Health Management

Graduate Certificate in HIV/AIDS

\*To be introduced in Spring 2007, please contact Faculty for further information.

#### School of Nursing, Midwifery and Indigenous Health

Master of Indigenous Health

Master of Nursing

Master of Nursing (Mental Health)

Master of Science (Gerontology and Rehabilitation Studies)

Master of Science (Development Disability)

Master of Science (Midwifery)

Graduate Diploma in Indigenous Health

Graduate Diploma in Science (Developmental Disability)

Graduate Certificate in Developmental Disability

Graduate Certificate (Gerontology and Rehabilitation Studies)

Graduate Certificate in Indigenous Health

Graduate Certificate in Mental Health Nursing

Graduate Certificate in Nursing

Graduate Certificate in Practice Nursing

#### School of Psychology

Doctor of Psychology (Clinical)

Master of Psychology (Clinical)

Master of Science (Psychology)

Postgraduate Diploma in Psychology

Postgraduate Certificate in Professional Psychological Practice

#### Smart Foods Centre

Master of Nutrition Management

Master of Science (Nutrition Management)

Graduate Certificate in Nutrition Management

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).

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# Doctor of Philosophy

Arts	Testamur Title of Degree:	Doctor of Philosophy
	Abbreviation:	PhD
	Home Faculty:	Health and Behavioural Sciences
	Duration:	3 years full-time or part-time equivalent
	Total Credit Points:	48 per annum
	Delivery Mode:	Supervised individual research
	Starting Session(s):	Autumn, Spring
	Location:	Wollongong
	UOW Course Code:	201
	CRICOS Code:	020191M (Laboratory)/ 012104D (Non-Laboratory)

## Overview

The Doctor of Philosophy provides the opportunity to pursue in-depth research. Candidates are expected to develop a research thesis that leads to an original and significant contribution to the knowledge in a particular field.

## Major Study Areas

Schools research activities are in the areas of:

### Health Sciences

- Anatomy
- Applied Cardiovascular Physiology
- Biomechanics
- Cardiovascular Pathophysiology
- Environmental Health
- Exercise Physiology
- Exercise Rehabilitation
- Functional Anatomy
- Health and Society: Social Theory and Public Health
- Health Behaviour Change
- Health Information Systems
- Health Policy
- Health Program Development and Evaluation
- Health Promotion
- Health Services Management
- Human Thermoregulation and Performance
- Metabolic and Lipid Chemistry
- Molecular Neuroscience
- Motor Control and Dysfunction
- Nutrition and Dietetics
- Occupational Health and Safety
- Public Health Nutrition and Food Regulation

### Nursing

- Continuity of care
- Consumer partnerships/collaboration
- Evidence-Based Practice
- Mental Health Nursing
- Nursing workforce and staff mentorship

### Psychology

- Psychophysiology



- Short-term Memory
- Visual Perception
- Cognition Development
- Cognitive Neuroscience relating to Cognition (particularly memory, vision and development)
- Mental Health and Emotional Well-being

### Smart Foods Key Centre

#### Nutrient Sources:

- Plant biology and livestock growth and metabolism studies to provide leaner meat products and improve the delivery of beneficial nutrients into the food supply.
- Identification of novel food plants and enhancement of nutrient levels/balance in plants, meat and eggs.

#### Key Nutrients:

- Laboratory and community based studies to examine actions and health benefits of fatty acids, antioxidants, phytoestrogens and other specific nutrients. Includes biochemical and physiological investigations into processes of oxidation and metabolism as they relate to heart, vascular and muscle function in health and disease.

#### Bioavailability:

- Facilities are in place for the identification and accurate measurement of nutrients in foods and the human body.

#### Clever Cuisine:

- Research aimed at bringing together beneficial macro and micronutrients into a whole cuisine optimised for metabolic fitness and prevention of conditions like diabetes, obesity, hypertension and cardiac disease.

#### Consumer Insights:

- Identification and understanding of factors that influence healthy food choices, including good policy, food labelling and consumer information sources, combined with surveys of consumer preferences and sensory evaluation of foods.

### Centre for Health Behaviour and Communication Research

#### Health communication (including risk communication)

- e.g., developing messages for pandemics such as bird flu; communication of breast cancer risk

#### Social marketing

- e.g., development of campaigns for Cancer Councils; asthma education

#### Influence of mass media on health behaviours

- e.g., the effects of alcohol on advertising; community standards for advertising; direct to consumer advertising of pharmaceuticals; food advertising to children

#### Health behaviour change (at the individual, group, and community level)

- e.g., recruitment to disease management programs; increasing exercise in different populations

#### International health

- e.g., exploring health care workers perceptions and practices regarding HIV/AIDS in south-east Asia

#### Health workforce development and leadership

- e.g., skills training for general practitioners; drug and alcohol education curriculum

#### Aged and dementia care

- e.g., increasing awareness of dementia among aged care staff; developing competencies for dementia care

### Entry Requirements / Assumed Knowledge

Candidates must have an Honours Bachelor degree of at least four years duration, and have achieved Honours Class 2 Division 2 or higher, or completed a Master by Research degree. In addition, a primary supervisor in the relevant academic unit must be identified prior to commencing the program. 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. Requirements are higher in some programs.

### Course Requirements

Study at the Doctoral level, usually for a minimum of 3 years full-time, is by advanced research thesis. Potential candidates should discuss their research plan with the Postgraduate Research Coordinator of the School/Department, at which time the supervision arrangements of the School/Department will be outlined.

Rules and procedures for Doctoral degrees by Thesis are listed in the Course Rules. Doctoral candidates are urged to be familiar with the Code of Practice – Supervision and General Course Rules governing Thesis and Research Degrees, including the regulations regarding preparation and submission of the thesis.

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## Course Program

Subject	Session	Credit Points
THES924 for full-time students	Annual	48
or		24
THES912 for part-time students		

## Doctor of Philosophy (Clinical Psychology)

Testamur Title of Degree:	Doctor of Philosophy (Clinical Psychology)
Abbreviation:	PhD (Clin/Psyc)
Home Faculty:	Health and Behavioural Sciences
Duration:	4 years full-time or part-time equivalent
Total Credit Points:	192
Delivery Mode:	Face-to-face
Starting Session(s):	Normally Autumn session
Location:	Wollongong
UOW Course Code:	209
CRICOS Code:	003002G

## Overview

This program aims to equip candidates with both clinical and research training at high levels of expertise. The coursework and practical, provides students with a comprehensive understanding of the principles governing psychological assessment and therapy, and clinical skills required to assess and treat clients with a wide variety of clinical conditions in both child and adult populations. Candidates also undertake in-depth research in order to make an original contribution to the body of knowledge in clinical psychology. The research comprises more than 2/3rds of the degree. The clinical training enables the candidate to practise as a clinical psychologist, and the research training can lead to (or enhance) an academic career, and is highly regarded by public and private sector employers.

## Entry Requirements / Assumed Knowledge

Candidates must have a superior honours degree in Psychology of at least four years duration of Class II, Division 1 standard or higher. Entry is very competitive and is particularly suitable for students with PhD Scholarships. Applicants must submit two referees' reports, a personal statement, a research proposal and attend a selection interview.

International students are required to have achieved an IELTS score of 6.5 overall, with at least 6.0 in all bands, reading and writing, speaking and listening.

## Course Requirements

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at the end of this chapter.

## Course Program

Subjects	Session	Credit Points
GHMC951 Child & Adult Assessment & Psychopathology	Autumn	8
GHMC952 Principles of Psychotherapy	Autumn	8
GHMC955 Health & Wellbeing	Autumn	8
GHMC953 Neuropsychology & Neuropsychiatric Disorders	Spring	8
GHMC954 Cognitive Behavioural Therapies	Spring	8
GHMC956 Special Groups & Methods	Spring	8
THES916 Research Thesis	Annual	16
THES924/ Thesis full-time students/	Annual	48
THES912 Thesis part-time students		24

## Professional Recognition

This program is accredited by the NSW Psychologists Registration Board for registration as a psychologist, by the Australian Psychological Society at 5 and 6 year level, and by the APS College of Clinical Psychologists.

## Doctor of Public Health

Testamur Title of Degree:	Doctor of Public Health
Abbreviation:	DPH
Home Faculty:	Health and Behavioural Sciences
Duration:	3 years or part-time equivalent
Total Credit Points:	48 per annum
Delivery Mode:	Supervised individual research and face-to-face classes
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	204
CRICOS Code:	012105C

### Overview

The Doctor of Public Health is a professional doctorate degree granted on successful completion of an approved program of coursework, in addition to an independent and original investigation of a significant problem in public health, and the presentation of the research as an acceptable thesis. This degree prepares students for leadership positions in the health sector that require advanced analytical or conceptual capabilities. Students should consult the information under the Doctor of Philosophy for information about the schools research areas.

### Entry Requirements / Assumed Knowledge

To qualify for entry to the program, candidates must have a Master of Public Health degree or equivalent, usually at credit level or higher, or an Honours Bachelor degree of at least Class II, Division 2 standard in a relevant discipline, followed by the equivalent of one year of full-time relevant and approved postgraduate study.

Students should preferably have two or more years of appropriate professional experience, and have demonstrated potential capacity for leadership in the area of specialisation. Applicants should submit a record of professional experience and names of two appropriate referees. International students are required to have achieved an IELTS score of 6.5, with a minimum level of 6.0 in reading, writing, speaking and listening.

### Course Requirements

The DPH usually takes three years of full-time study. It includes a coursework component and a research component. There will be no advanced standing granted for previous graduate study at Masters level. The coursework involves a maximum of one year of full-time study (48 credit points) in both required and elective courses. The research component of the program involves at least two years of full-time enrolment, undertaking a thesis following completion of the coursework component. Progression to the research component requires the development of a suitable research proposal, at the end of which the student sits a qualifying examination.

On successful completion of the qualifying examination, the student undertakes the research under supervision. At the end of this period the student will submit a thesis for examination under the regulations for Doctoral Theses of the University. Individual coursework programs should be decided in conjunction with the intended supervisor for the research and the Head of School. The coursework must be passed with a credit average mark to allow progression into the research component of the course. Applicants who have not had a background in public health may be advised to take the four core subjects listed below. Some applicants may be advised to undertake specialised programs in preparation for their research.

### Course Program

Subjects (by year)	Session	Credit Points
GHMD905 Social Foundations of Public Health	Autumn	6
GHMD983 Statistics in Health Research	Spring	6
GHMD904 Epidemiology	Spring	6
GHMD984 Health Research Methodology	Spring	6

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THES924	Thesis for full-time students	Annual	48
THES912	Thesis for part-time students		24

Full-time students are required to submit their theses no later than eight academic sessions from the date of candidature.

## Other Information

Through an agreement with the School of Public Health, University of California (Berkeley), it is expected that selected Doctor of Public Health students will be able to spend one session at the University of California (Berkeley) advancing research and/or coursework interests which are part of their approved program of study.

## Master of Midwifery - Research

Testamur Title of Degree:	Master of Midwifery - Research
Abbreviation:	MMid-Res
Home Faculty:	Health and Behavioural Sciences
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Day
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1308
CRICOS Code:	044410G

## Overview

The Master of Midwifery – Research is intended to provide candidates with the opportunity to pursue a research program in a specialised field of midwifery. Interdisciplinary supervision will be encouraged so that a student may have (for instance) a supervisor who is a midwife/nurse academic, and another with expertise in an appropriate associated discipline.

## Entry Requirements / Assumed Knowledge

Research applicants must hold a qualification that would demonstrate their authority to practice as a Registered Midwife within Australia (or provide evidence of equivalent international midwifery registration). Applicants must also demonstrate the minimum tertiary qualifications of a 3 year Bachelor of Nursing degree (or equivalent)

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.

## Course Requirements

The candidate is required to undertake 72 credit points to successfully complete the Master of Midwifery – Research. To successfully complete the Master of Midwifery – Research, the candidate will be required to undertake the coursework research preparation program (outlined below), before enrolling in the 48 credit point Major Thesis. Recognition of the candidate's prior learning will be considered, if able to demonstrate possession of relevant qualifications.

## Course Program

Subjects (by year)		Session	Credit Points
THES924	Thesis for full-time students	Annual	48
THES912	Thesis for part-time students		24
Core Subjects			
GHMB950	Reflective Practice 1	Autumn or Spring	6
GHMD984	Health Research Methodology	Spring	6
GHMB953	Special Topic in Nursing	Autumn or Spring	6
Elective – choose one elective from:			
GHMD983	Statistics in Health Research	Spring	6

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au)

Ms Moira Williamson, Coordinator, Master of Science (Midwifery), +61 2 4221 3381 or [moiraw@uow.edu.au](mailto:moiraw@uow.edu.au).

Uniadvice 1300 367 869.

Visit our website: [www.uow.edu.au/health/nursing](http://www.uow.edu.au/health/nursing).

## Master of Nursing - Research

Testamur Title of Degree:	Master of Nursing - Research
Abbreviation:	MNurs-Res
Home Faculty:	Health and Behavioural Sciences
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Day/Evening/Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1310
CRICOS Code:	042634G

### Overview

The aims of the program are to prepare nurses for senior roles in nursing and in the health care system, to prepare candidates for competence in research methods and design, and to provide the candidates with important current evidence based health care and nursing content information. Students should consult the information under the Doctor of Philosophy for information about the schools research areas.

### Entry Requirements / Assumed Knowledge

Applicants must hold a qualification in Nursing which will enable them to gain authority to practice as a Registered Nurse, as well as a Bachelor degree in Nursing, Graduate Certificate in Nursing, Bachelor of Nursing (Honours) Class II, Division 2, or a Master of Nursing degree or equivalent. Applicants who do not possess a Bachelor degree in Nursing, may gain entry to the Master of Nursing – Research program by successfully completing a Graduate Certificate in Nursing, with content arranged with advice from the Postgraduate Coordinator, and by achieving a credit average.

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.

### Course Requirements

The candidate is required to undertake 72 credit points to successfully complete the Master of Nursing - Research. It is expected that all candidates will undertake the coursework preparation program (outlined below), before enrolling in the thesis, unless they can demonstrate that they possess the relevant skills and knowledge.

### Course Program

Subjects (by year)	Session	Credit Points
THES924 Thesis for full-time students	Annual	48
THES912 Thesis for part-time students		24
Core Subjects		
GHMB950 Reflective Practice 1	Autumn or Spring	6
GHMD984 Health Research Methodology	Spring	6
GHMB953 Special Topic in Nursing	Autumn or Spring	6

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Elective – choose one elective from:

GHMD983	Statistics in Health Research	Spring	6
GHMB951	Reflective Practice 2	Autumn or Spring	6

Candidates must also complete on-line TCHR021 Statistical Literacy, or demonstrate statistical literacy as a pre-requisite for enrolling in GHMD984.

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au) .

Uniadvice 1300 367 869.

Visit our website: [www.uow.edu.au/health/nursing](http://www.uow.edu.au/health/nursing) .

## Master of Science - Research

Testamur Title of Degree:	Master of Science -Research
Abbreviation:	MSc-Res
Home Faculty:	Health and Behavioural Sciences
Duration:	1.5 years full-time
Total Credit Points:	72
Delivery Mode:	Day
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1304
CRICOS Code:	042633G

## Overview

The Master of Science (Research) provides the opportunity to pursue independent research in fields including biomedical science, exercise science, exercise rehabilitation, nutrition and dietetics, and public health. Students should consult the information under the Doctor of Philosophy for information about the schools research areas.

## Entry Requirements / Assumed Knowledge

Normally students must have an honours degree of at least four years duration of Class II, Division 2 standard in a relevant discipline. International students are required to have achieved an IELTS score of 6.5, with a level of 6 in reading, writing, speaking and listening.

## Advanced Standing

Advanced standing for the coursework component may be granted to those who have completed an appropriate Bachelor (Honours) Degree.

## Course Requirements

All candidates for this program must present a research seminar in each enrolled year, take part in a research proposal and defence process, and submit a written research thesis.

Students entering the program with an Honours Bachelor degree with at least Class II, Division 2, are required to complete a research thesis to the value of 48 credit points.

Students who do not have an Honours Bachelor degree with at least Class II, Division 2, must complete 24 credit points of coursework research methodology, as well as complete a 48 credit point major thesis.

In the Public Health program, a detailed research proposal must be submitted for examination at about one third of the duration of the candidature. This examination must be passed successfully for the candidature to be allowed to continue.

## Course Program (Biomedical Science)

Subjects (by year)	Session	Credit Points
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GHMA906	Research Project	Autumn/ Spring/ Annual	8
GHMA913	Special Topics	Autumn/ Spring/ Annual	8
GHMA909	Practicum	Autumn/ Spring/ Annual	8
THES924	Thesis for full-time students	Annual	48
THES912	Thesis for part-time students		24

### Course Program (Public Health)

Subjects (by year)		Session	Credit Points
GHMD983	Statistics in Health Research	Spring	6
GHMD904	Epidemiology	Spring	6
GHMD984	Health Research Methodology	Spring	6
THES924	Thesis for full-time students	Annual	48
THES912	Thesis for part-time students		24

### Professional Recognition

Master of Science (Research) is recognised as an entry qualification for a PhD program in most disciplines in Australia and other countries.

## Master of Science – Research (Psychology)

Testamur Title of Degree:	Master of Science –Research
Abbreviation:	MSc-Res
Home Faculty:	Health and Behavioural Sciences
Duration:	2 years full-time
Total Credit Points:	72
Delivery Mode:	Day
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	1304
CRICOS Code:	044405D

### Overview

The Master of Science (Research) provides the opportunity to pursue research in psychology. Students should consult the information under the Doctor of Philosophy for information about the schools research areas.

### Entry Requirements / Assumed Knowledge

Students must have an honours degree of at least four years duration of Class II, Division 2 standard in a relevant discipline. It is possible to admit only a limited number of students each year. If the number of applicants exceeds the quota, admission will be based on academic qualifications.

International students are required to have achieved an IELTS score of 6, with a level of 6 in reading and writing, and 5 in speaking and listening.

### Course Requirements

All candidates for this program must present a research seminar in each enrolled year, take part in a research proposal and defence process, and submit a written research thesis.

Students entering the program with an Honours Bachelor degree with at least Class II, Division 2, are required to complete a research thesis to the value of 48 credit points.

Students who do not have an Honours Bachelor degree with at least Class II, Division 2, must complete 24 credit points of coursework, research methodology, as well as complete a 48 credit point major thesis.

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## Course Program

### Subjects

Subjects	Session	Credit Points
GHMC946      Research Project A	Autumn	8
GHMC947      Research Project B	Spring	16
THES924 for full-time students or THES912 part-time		48

### Professional Recognition

Master of Science (Research) is recognised as an entry qualification for a PhD program in most disciplines in Australia and other countries.

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# School of Health Sciences

## Master of Science (Exercise Rehabilitation)

Testamur Title of Degree:	Master of Science (Exercise Rehabilitation)
Abbreviation:	MSc
Home Faculty:	Health and Behavioural Sciences
Duration:	1.5 years full-time
Total Credit Points:	72
Delivery Mode:	Day
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	026169E

### Overview

The Master of Science (Exercise Rehabilitation) aims to produce professional exercise scientists who can utilise exercise to prevent and rehabilitate disease and injury in the broader community.

### Entry Requirements / Assumed Knowledge

A Bachelor degree in Exercise Science or Human Movement of at least 3 years duration from a recognised tertiary institution. Places are limited and a credit average across all completed undergraduate subjects is required to be competitive for entry.

International students are required to have achieved an IELTS score of 6.5, with a level of at least 6 in all bands, reading, writing, speaking and listening.

### Course Requirements

The Master of Science (Exercise Rehabilitation) is comprised of 72 credit points of subjects, and can be taken as 1.5 years full-time or 3 years part-time study. Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at end of this chapter.

### Course Program

Subjects (by year)	Session	Credit Points
Year 1		
BEXS411 Practicum in Exercise Science A	Autumn	8
BEXS451 Exercise Rehabilitation 1: Musculoskeletal	Autumn	8
BEXS452 Exercise Rehabilitation 2: Cardiorespiratory and Neurological	Autumn	8
BEXS402 Exercise in Special Populations	Spring	8
BEXS412 Practicum in Exercise Science B	Spring	8
BMS303 Research Topics in Exercise Science	Spring	8
Year 2		
GHMA997 Major Project	Autumn/Spring	24

### Professional Recognition

Graduates holding the Master of Science (Exercise Rehabilitation) may gain full membership of AAESS after completing a period of supervised work experience, and be eligible for accredited membership following 1000 hours of post-graduation employment.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
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Science

# Master of Science (Nutrition)

Testamur Title of Degree:	Master of Science (Nutrition)
Abbreviation:	MSc
Home Faculty:	Health and Behavioural Sciences
Duration:	1.5 years full-time
Total Credit Points:	72
Delivery Mode:	Face-to-Face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	007054G

## Overview

The Master of Science (Nutrition) program provides access to the academic and research experience of the MSc (Nutrition and Dietetics) program, but excludes the placement program – and so is not accredited by the DAA. It is particularly suitable for students interested in a nutrition research career or nutrition work in other countries which do not require professional dietetic recognition.

## Entry Requirements / Assumed Knowledge

A Bachelor degree (incorporating a full year of study of both biochemistry and human physiology) of at least 3 years duration from a recognised tertiary institution, or equivalent. Entry is competitive. It is possible to admit only a limited number of students each year. If the number of applicants exceeds the quota, admission will be based on academic qualifications.

International students are required to have achieved an IELTS score of 6.5, with a minimum level of 6 in reading, writing, speaking and listening.

## Advanced Standing

The Master of Science (Nutrition) comprises the first 18 months of the MSc (Nutrition and Dietetics) degree.

## Course Requirements

The Master of Science (Nutrition) is comprised of 72 credit points of subjects and can be taken as 1.5 years full-time or 3 years part-time enrolment.

## Course Program

Subjects (by year)	Session	Credit Points
Year 1		
GHMA930 Community and Public Health Nutrition	Autumn	8
GHMA931 Nutrients and Metabolism	Autumn	8
GHMA932 Research in Human Nutrition	Autumn	8
GHMA997* Major Project	Spring	24
* or 24 cp of course work approved by the coordinator		
Year 2		
GHMA933 Communication in Health Care Practice	Autumn	8
GHMA934 Dietetics	Autumn	8
GHMA935 Food Service and Dietetics Management	Autumn	8

## Credit Towards Other Courses

The Master of Science (Nutrition) comprises the first 18 months of the Master of Science (Nutrition and Dietetics).

## Master of Science (Nutrition and Dietetics)

Testamur Title of Degree:	Master of Science (Nutrition and Dietetics)
Abbreviation:	MSc(N&D)
Home Faculty:	Health and Behavioural Sciences
Duration:	2 years full-time
Total Credit Points:	96
Delivery Mode:	Face-to-Face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	007054G

### Overview

The Master of Science (Nutrition and Dietetics) consists of coursework and placements, and develops knowledge and skills required by nutritionists/dietitians working in a variety of community and public health settings, hospitals, and other tertiary health care facilities.

### Entry Requirements / Assumed Knowledge

A Bachelor degree (incorporating a full year of study of both biochemistry and human physiology) of at least 3 years duration from a recognised tertiary institution, or equivalent. Entry is competitive.

It is possible to admit only a limited number of students each year. If the number of applicants exceeds the quota, admission will be based on academic qualifications.

International students are required to have achieved an IELTS score of 6.5, with a level of at least 6 in all bands, reading and writing, speaking and listening.

### Advanced Standing

Depending on their undergraduate degree, students can apply for advanced standing for up to 24 credit points, which would allow completion in 18 months of full-time study.

### Course Requirements

The Master of Science (Nutrition and Dietetics) is comprised of 96 credit points of subjects and can be taken as 2 years full-time or part-time equivalent.

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at end of this chapter.

### Course Program

Subjects (by year)	Session	Credit Points
Year 1		
GHMA930★ Community and Public Health Nutrition	Autumn	8
GHMA931★ Nutrients and Metabolism	Autumn	8
GHMA932★ Research in Human Nutrition	Autumn	8
GHMA997 Major Project	Spring	24
Year 2		
GHMA933 Communication in Health Care Practice	Autumn	8
GHMA934 Dietetics	Autumn	8
GHMA935 Food Service and Dietetics Management	Autumn	8
GHMA937 Practical Studies in Nutrition and Dietetics	Spring	24

★ Graduates of the BSc (Nutrition) degree from the University of Wollongong may apply for exemption from these subjects.

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## Professional Recognition

Graduates holding the Master of Science (Nutrition and Dietetics) are eligible for membership of the Dietitians Association of Australia (DAA), and may be employed as nutritionists/dietitians in Australia and certain overseas countries.

## Master of Science (Nutrition/Dietetics and Exercise Rehabilitation)

Testamur Title of Degree:	Master of Science (Nutrition/Dietetics and Exercise Rehabilitation)
Abbreviation:	MSc(ND&ER)
Home Faculty:	Health and Behavioural Sciences
Duration:	2 years full-time
Total Credit Points:	104
Delivery Mode:	Face-to-Face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	026169E

### Overview

The Master of Science (Nutrition/Dietetics and Exercise Rehabilitation) is designed to meet core fields of competency defined by the dietetics and exercise science professions, including key areas of clinical dietetics practice, community and public health nutrition, food service systems management, exercise prescription, exercise rehabilitation and clinical practicum studies.

### Entry Requirements / Assumed Knowledge

A Bachelor degree in Exercise Science and Nutrition of at least 3 years duration from a recognised tertiary institution. Applicants with other undergraduate degree backgrounds may need to complete additional study prior to entry into this degree. Entry is highly competitive and specific subject pre-requisites must be met to be eligible to apply.

International students are required to have achieved an IELTS score of 6.5, with a level of at least 6 in all bands, reading and writing, speaking and listening.

### Course Requirements

The Master of Science (Nutrition/Dietetics and Exercise Rehabilitation) is comprised of 104 credit points of subjects and can be taken as 2 years full-time or part-time equivalent.

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at end of this chapter.

### Course Program

Subjects (by year)	Session	Credit Points
Year 1		
BEXS451 Exercise Rehabilitation 1: Musculoskeletal	Autumn	8
BEXS452 Exercise Rehabilitation 2: Cardiorespiratory & Neurological	Autumn	8
GHMA935 Food Service and Dietetics Management	Autumn	8
BEXS411 Practicum in Exercise Science A	Annual	8
BEXS402 Exercise in Special Populations	Autumn	8
BMS304 Research Topics in Nutrition and Dietetics	Spring	16
Year 2		
BEXS412 Practicum in Exercise Science B	Autumn	8
GHMA934 Dietetics	Autumn	8
GHMA929 Exercise Psychology and Dietary Counselling	Autumn	8
GHMA937 Practical Studies in Nutrition and Dietetics	Spring	24
GHMA930 Community and Public Health Nutrition must also be completed if BMS310 is not passed in an undergraduate program.		

## Professional Recognition

The Master of Science (Nutrition/Dietetics and Exercise Rehabilitation) is designed to provide a dual qualification recognised by both the Dietitians Association of Australia (DAA) and the Australian Association for Exercise and Sports Science (AAESS). Such recognition will allow graduates to attain accreditation as both professional dietitians and exercise science practitioners.

## Master of Science (Occupational Health and Safety)

Testamur Title of Degree:	Master of Science (Occupational Health and Safety)
Abbreviation:	MSc(OHS)
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year full-time
Total Credit Points:	52
Delivery Mode:	Face-to-Face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	574S
CRICOS Code:	048497G

### Overview

The Master of Science (Occupational Health and Safety) provides an intensive professional program of study in the area of OH&S with the opportunity to develop a specialisation in either Occupational and Environmental Health or OH&S Management. This degree also allows students to develop research skills related to professional practice in OH&S.

### Entry Requirements / Assumed Knowledge

A three-year undergraduate degree and related work experience or a Graduate Certificate in Science (OH&S) with a credit average from the University of Wollongong.

International students are required to have achieved an IELTS score of 6.5, with a level of at least 6 in all bands, reading and writing, speaking and listening.

### Course Requirements

The Master of Science (Occupational Health and Safety) is comprised of 52 credit points of subjects and can be taken as 1 year full-time or part-time equivalent.

### Course Program

Subjects (by year)		Session	Credit Points
LAW969	OH&S Law	Autumn	6
GHMA920	Behavioural Change: Human Factors in OH&S	Spring	6
GHMD983	Statistics in Health Research	Spring	6
GHMA915*	Ergonomics in Practice	Autumn	8
GHMA923*	OH&S Risk Management	Autumn	6
GHMA922	Occupational Hygiene and Toxicology	Spring	6
GHMA927*	Advanced Workplace Injury Management	Spring	8
Plus 6cp of electives from the list below, or other 900 level subjects approved by the Course Coordinator.			
GHMD986	Environmental Health	Autumn	6
GHMD912	Health Promotion	Autumn	6
GHMD984	Health Research Methodology	Spring	6
MGMT915	Management of Change	Spring	6
MGMT911	Leadership and Team Dynamics	Spring	6
MGMT963	Management of OH&S	Spring	6

\*These subjects are taught in various block delivery modes. Please consult the Course Coordinator for details.

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Informatics
Law
Science

## Professional Recognition

Graduates are encouraged to seek membership of leading professional institutes or societies (subject to their membership grading rules) such as the following:

- Australian Institute of Occupational Hygienists Inc.
- Safety Institute of Australia
- Human Factors & Ergonomics Society of Australia

Registered nurses who complete the Graduate Certificate in Science (OHS) or Master of Science (OHS) are eligible to apply for membership of the Australian College of Occupational Health Nurses (subject to their grading rules).

## Graduate Diploma in Science (Biomedical Science)

Testamur Title of Degree:	Graduate Diploma in Science (Biomedical Science)
Abbreviation:	GDipSc
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year full-time
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	650
CRICOS Code:	002508M

## Overview

The Graduate Diploma in Science (Biomedical Science) is designed to give graduates further training in one of the discipline areas of biomedical science.

## Entry Requirements / Assumed Knowledge

Entry into the Graduate Diploma in Science (Biomedical Science) requires the successful completion of a Bachelor degree, with emphasis in biomedical science of at least 3 years duration from a recognised tertiary institution.

It is possible to admit only a limited number of students each year. If the number of applicants exceeds the quota, admission will be based on academic qualifications. International students are required to have achieved an IELTS score of 6, with a level of 6 in reading and writing, and 5 in speaking and listening.

## Course Requirements

The Graduate Diploma in Science (Biomedical Science) is comprised of 48 credit points of subjects, and can be taken as a one year full-time, or 2 years part-time enrolment.

As the program is designed specifically for each student's needs, subjects should be selected in consultation with an academic adviser and approved by the Head of School. Students may choose subjects from discipline areas including anatomy, physiology, biochemistry, exercise physiology and nutrition.

## Graduate Diploma in Science (Exercise Rehabilitation)

Testamur Title of Degree:	Graduate Diploma in Science (Exercise Rehabilitation)
Abbreviation:	GDipSc
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year full-time
Total Credit Points:	48
Delivery Mode:	Day
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	650
CRICOS Code:	002508M

### Overview

The Graduate Diploma in Science (Exercise Rehabilitation) focuses on the utilisation of exercise as a means of improving health and fitness, and rehabilitating injured tissues and/or systems.

### Entry Requirements / Assumed Knowledge

Entry into the Graduate Diploma in Science (Exercise Rehabilitation) requires the successful completion of a Bachelor in Human Movement (or equivalent) of at least 3 years duration from a recognised tertiary institution.

It is possible to admit only a limited number of students each year. If the number of applicants exceeds the quota, admission will be based on academic grades across the second and third year subjects in the undergraduate degree.

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.

### Course Requirements

The Graduate Diploma in Science (Exercise Rehabilitation) is comprised of 48 credit points of subjects and can be taken as a one year full-time or 2 years part-time enrolment.

### Course Program

Subjects (by year)		Session	Credit Points
BEXS411	Practicum in Exercise Science A	Autumn	8
BEXS451	Exercise Rehabilitation 1: Musculoskeletal	Autumn	8
BEXS452	Exercise Rehabilitation 2: Cardiorespiratory and Neurological	Autumn	8
BEXS402	Exercise Science for Special Populations	Spring	8
BEXS412	Practicum in Exercise Science B	Spring	8
BMS303	Research Topics in Exercise Science	Spring	8

### Professional Recognition

Graduates of the Graduate Diploma in Science (Exercise Rehabilitation) may gain full membership of AAESS after completing a period of supervised work experience, and may apply for accredited membership following 1000 hours of paid employment.

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# Graduate Certificate in Occupational Health and Safety

Testamur Title of Degree:	Graduate Certificate in Occupational Health and Safety
Abbreviation:	GCertOHS
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year part-time
Total Credit Points:	26
Delivery Mode:	Face-to-Face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	1135
CRICOS Code:	N/A

## Overview

The Graduate Certificate in Occupational Health and Safety course provides an entry point for students with a Certificate IV in Workplace Safety and a Certificate IV in Assessment & Workplace Training, a minimum of 2 years work experience, or TAFE 3 year minimum Trade Certificate with a minimum of 2 years work experience. The course is designed to permit students to transfer to the Master of Science (Occupational Health and Safety).

## Entry Requirements / Assumed Knowledge

A 3 year Bachelors degree from a recognised tertiary institution or equivalent, Certificate IV in Workplace Safety and a Certificate IV in Assessment & Workplace Training with a minimum of two years work experience.

International students are required to have achieved an IELTS score of 6.5, with a level of at least 6 in all bands, reading and writing, speaking and listening.

## Course Requirements

The Graduate Certificate in Occupational Health and Safety course is comprised of 26 credit points of subjects, and can be taken as a one session full-time enrolment or 1 year part-time.

## Course Program

Subjects (by year)	Session	Credit Points
GHMA923* OH&S Risk Management	Autumn	6
LAW969 Occupational Health and Safety Law	Autumn	6
GHMA922 Occupational Hygiene and Toxicology	Spring	6
GHMA927* Advanced Workplace Injury Management	Spring	8

\* These subjects are taught in various block delivery modes. Please consult the Course Coordinator for details.

## Credit Towards Other Courses

The Graduate Certificate in Occupational Health and Safety course is designed to permit students to transfer to the Master of Science (Occupational Health & Safety). Students must maintain a credit point average to transfer to the Master of Science (Occupational Health & Safety) and are to discuss this option with the Course Coordinator.

# Master of Health Management

Testamur Title of Degree:	Master of Health Management
Abbreviation:	MHM
Home Faculty:	Faculty of Health and Behavioural Science
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	On Campus/Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong, Sydney, Distance
UOW Course Code:	598
CRICOS Code:	TBA

## Overview

The Master of Health Management program is designed for those in sectional, clinical or departmental management positions, or for those health professionals with relevant experience who wish to extend their activities into health management.

## Entry Requirements / Assumed Knowledge

A Bachelor degree of at least three years duration from a recognised tertiary institution or equivalent, together with a minimum of two years full-time relevant work experience. In special circumstances, an applicant holding other acceptable academic qualifications, plus a minimum of two years full-time relevant work experience, may be admitted. If you do not have a three year Bachelor degree or equivalent, you must provide a detailed statement confirming the nature and duration of your work experience, together with supporting documentation from your employer. International students are required to have achieved an IELTS score of 6.5, with a level of 6.0 in all bands.

## Advanced Standing

Students who have completed relevant subjects in a Graduate Certificate in Health Management or Graduate Certificate in Public Health may receive advanced standing based on those subjects, up to a maximum of 24 credit points.

## Course Requirements

Candidates are required to complete 48 credit points of accredited modules comprising subjects on offer from the School of Health Sciences and the Graduate School of Business.

## Course Program

Subjects		Session	Credit Points
Core Subjects			
ECON918	Economics of Health Care	Autumn	6
GHMD906	Quality Management for Health Services	Autumn	6
GHMD924	Health Information Systems	Autumn	6
GHMD908	Health Services Planning and Evaluation	Spring	6
GHMD909	Comparative Health Systems: Policies and Politics	Spring	6
TBS 901	Accounting for Managers	Intake C	6
TBS 903	Managing People in Organisations	Intake B	6

Plus one elective subject as approved by the Course Co-ordinator. \*

\* Students who wish to progress to the MBA program, must complete TBS909 Corporate Governance as the elective subject.

## Credit Towards other Courses

Upon successful completion of the Master of Health Management, those students who meet the Master of Business Administration (MBA) entry requirements may apply to enrol in the MBA degree, and will be required to complete a further seven specified subjects (42 credit points) as determined by the MBA Course Co-ordinator.

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# Master of Health Leadership and Management

Arts	Testamur Title of Degree:	Master of Health Leadership and Management
	Abbreviation:	MHLM
	Home Faculty:	Graduate School of Business
Commerce		Faculty of Health and Behavioural Sciences
		Faculty of Informatics
	Duration:	1 year full-time or part-time equivalent
	Total Credit Points:	48
	Starting Session(s):	Autumn, Spring, Summer at Wollongong campus
Creative Arts	Delivery Mode:	Face-to-face
	Location:	Wollongong
	UOW Course Code:	1566 - Health & Behavioural Sciences
		1567 - Graduate School of Business
		1568 - Informatics
	CRICOS Code:	TBA

## Overview

This course is designed for practicing health professionals seeking to develop their management and leadership skills.

This flexible program allows students to select from a variety of Graduate Certificate degrees and tailor their Masters program to suit their professional development requirements.

## Entry Requirements

Students can enter the Master of Health Leadership and Management degree via either of the pathways detailed below:

Applicants with a Bachelor degree of at least three years duration from a recognised tertiary institution or equivalent, together with a minimum of two years full-time relevant work experience will be admitted to the Master of Health Leadership and Management degree. Upon commencement of the degree, students will nominate two Graduate Certificate degrees within the course structure.

Alternatively, applicants may apply to enrol in one of the Graduate Certificate degrees listed within the MHLM course structure, provided they meet the entry requirements as specified for this Graduate Certificate by the relevant Faculty. Upon successful completion of the Graduate Certificate with an average mark of at least 60 per cent, students may apply to progress to the Master of Health Leadership and Management with credit for previous studies completed.

## Advanced Standing

Candidates must successfully complete a total of eight subjects, totalling 48 credit points; no advanced standing will be granted for subjects completed in the first graduate certificate degree. Students who successfully complete one of the Graduate Certificate programs listed in the course structure with an average mark of at least 60 per cent, may apply to progress to the MHLM with credit for previous studies.

## Course Requirements

Students who enrol directly into the Master of Health Leadership and Management will be required to meet with the Course Co-ordinator and discuss which two of the graduate certificate programs will comprise the course.

Those students who enrol initially in one of the Graduate Certificate degrees listed below, will be eligible to progress to the Master of Health Leadership and Management, upon successful completion with an average mark of at least 60 per cent. Candidates will then articulate to the Master of Health Leadership and Management and complete a further 24 credit points of subjects, based on one of the other graduate certificate programs listed below.

At least one of the graduate certificate programs must be chosen from those offered by the Faculty of Health and Behavioural Sciences. As leadership is a core component of this program, students must either complete the Graduate Certificate in Health Leadership and Management OR successfully complete the subject TBS903 Managing People in Organisations within one of the other Graduate Certificates.

### Faculty of Health and Behavioural Sciences

Graduate Certificate in Health Leadership and Management\*

Graduate Certificate in Health Management

Graduate Certificate in Nutrition Management

## Graduate School of Business

Graduate Certificate in Business Administration

Graduate Certificate in Logistics

Graduate Certificate in Management

## Faculty of Informatics

Graduate Certificate in Health Informatics

Graduate Certificate in Information and Communication Technology

Course structures for individual Graduate Certificate degrees can be found in the relevant Faculty's Handbook.

\*To be introduced in Spring 2007. Please contact the Faculty of Health & Behavioural Sciences for more information.

## Master of Public Health

Testamur Title of Degree:	Master of Public Health
Abbreviation:	MPH
Home Faculty:	Faculty of Health and Behavioural Science
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Day/Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong and off campus by distance education
UOW Course Code:	580
CRICOS Code:	009245F

## Overview

The Master of Public Health provides students with knowledge and understanding of efforts made by society to protect, promote and restore people's health. Health is defined as a state of well-being, not just the absence of disease. The goals of public health include the promotion and improvement of health, as well as the prevention of disease, premature death, and disease-produced discomfort and disability in the population.

## Entry Requirements / Assumed Knowledge

A Bachelor degree of at least three years duration from a recognised tertiary institution or equivalent. People with other acceptable qualifications and work experience may be admitted on completion of the Graduate Certificate in Public Health. International students are required to have achieved an IELTS score of 6.5, with a level of 6.0 in all bands.

## Course Requirements

48 credit points of coursework, comprising five core subjects and three electives from any schedule. International students must take GHMD903 in their first session. Other elective subjects may be approved by the Head of School.

## Course Program

Subjects (by year)		Session	Credit Points
Core Subjects			
GHMD905	Social Foundations of Public Health	Autumn	6
GHMD912	Health Promotion	Autumn	6
GHMD983	Statistics in Health Research	Spring	6
GHMD904	Epidemiology	Spring	6
GHMD984	Health Research Methodology	Spring	6
Electives			
Schedule 1			
GHMD903*	Public Health Communication and Data Skills	Autumn/Spring	6
GHMD936	Public Health Nutrition	Autumn	6
GHMD913	Alcohol and Other Drug Studies	Autumn	6

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Arts	GHMD930*	Mass Media and Population Health	Not offered in 2007	6
	GHMB923*	Legal and Professional Issues	Autumn	6
	GHMB940	Indigenous Family Studies	Autumn	6
	GHMB943	Health and Human Ecology	Autumn	6
Commerce	GHMD925	Aboriginal Health Issues	Spring	6
	GHMD981**	Reproductive Health Care in Developing Countries	Spring	6
	GHMB941	Indigenous Health Patterns	Spring	6
	GHMB944	Community Resource Planning	Spring	6
Creative Arts	GHMD985	Public Health Investigation	Spring	6
	GHMD986	Environmental Health	Autumn	6
	Schedule 2			
	GHMD906	Quality Management for Health Services	Autumn	6
Education	GHMD924	Health Information Systems	Autumn	6
	ECON918	Economics of Health Care	Autumn	6
	TBS901*	Accounting for Managers	Autumn	6
	TBS903*	Managing People in Organisations	Spring	6
Engineering	GHMD909	Comparative Health Systems	Spring	6
	GHMD908	Health Services Planning and Evaluation	Spring	6
	GHMB902*	Nursing Management	Spring	6
	Schedule 3***			
Graduate School of Business	GHMD907	Independent Study in Public Health	Autumn/Spring	6
	GHMD995*	Minor project	Autumn/Spring	12
	*These subjects not available by distance education			
	**Block delivery on campus			
Health & Behavioural Sciences	***Must have permission of Head of School to enrol; not normally permitted during first session of study			
	Master of Science (Population Health)			
	Testamur Title of Degree:	Master of Science (Population Health)		
	Abbreviation:	MSc(Population Health)		
Informatics	Home Faculty:	Faculty of Health and Behavioural Science		
	Duration:	2 years or part-time equivalent		
	Total Credit Points:	72		
	Delivery Mode:	Day		
Law	Starting Session(s):	Autumn/Spring		
	Location:	Wollongong		
	UOW Course Code:	574P		
	CRICOS Code:	056218G		
Science	Overview			
	The Master of Science (Population Health) provides students with the knowledge and understanding of efforts made by society to protect, promote and restore people's health. However, as a 72 credit point degree, it also gives students the opportunity to gain more knowledge in the area of health management, to undertake a major project, or to undertake study in another area with approval of Head of School.			
	Entry Requirements / Assumed Knowledge			
	A Bachelor degree of at least three years duration from a recognised tertiary institution or equivalent. People with other acceptable qualifications and work experience may be admitted on completion of the Graduate Certificate in Public Health. International students are required to have achieved an IELTS score of 6.5, with a level of 6.0 in all bands.			

## Course Requirements

72 credit points of coursework, comprising (for the health management stream) five core subjects and GHMD906 Quality Management for Health Services; plus, another 3 elective subjects from schedule 2 and a further 18 credit points from any schedule; and, (for the project stream) 5 core subjects plus GHMD997 Major Project; and a further 18 credit points from any schedule. International students must take GHMD903 in their first session. Other elective subjects may be approved by the Head of School.

## Course Program

Subjects (by year)	Session	Credit Points
<b>Core Subjects</b>		
GHMD905 Social Foundations of Public Health	Autumn	6
GHMD912 Health Promotion	Autumn	6
GHMD983 Statistics in Health Research	Spring	6
GHMD904 Epidemiology	Spring	6
GHMD984 Health Research Methodology	Spring	6
<b>Electives</b>		
<b>Schedule 1</b>		
GHMD903★ Public Health Communication and Data Skills	Autumn/Spring	6
GHMD936 Public Health Nutrition	Autumn	6
GHMD913 Alcohol and Other Drug Studies	Autumn	6
GHMD930★ Mass Media and Population Health	n/o 2007	6
GHMB923★ Legal and Professional Issues	Autumn	6
GHMB940 Indigenous Family Studies	Autumn	6
GHMB943 Health and Human Ecology	Autumn	6
GHMD925 Aboriginal Health Issues	Spring	6
GHMD981★★ Reproductive Health Care in Developing Countries	Spring	6
GHMB941 Indigenous Health Patterns	Spring	6
GHMB944 Community Resource Planning	Spring	6
GHMD985 Public Health Investigation	Spring	6
GHMD986 Environmental Health	Autumn	6
<b>Schedule 2</b>		
GHMD906 Quality Management for Health Services	Autumn	6
GHMD924 Health Information Systems	Autumn	6
ECON918 Economics of Health Care	Autumn	6
TBS901★ Accounting for Managers	Autumn	6
TBS903★ Managing People in Organisations	Spring	6
GHMD909 Comparative Health Systems	Spring	6
GHMD908 Health Services Planning and Evaluation	Spring	6
GHMB902★ Nursing Management	Spring	6
<b>Schedule 3***</b>		
GHMD907 Independent Study in Public Health	Autumn/Spring	6
GHMD995★ Minor project	Autumn/Spring	12
GHMD997★ Major project	Autumn/Spring	24

★These subjects not available by distance education

★★Block delivery on campus

\*\*\*Must have permission of Head of School to enrol; not normally permitted during first session of study

#Graduates with the BA (Population Health) or the BSc (Population Health) may apply for advanced standing for GHMD904 and GHMD912 if they successfully completed POP202 Promoting Healthy Lifestyles and POP204 Epidemiology.

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## Graduate Certificate in Health Management

Testamur Title of Degree:	Graduate Certificate in Health Management
Abbreviation:	GCertHlthMgmt
Home Faculty:	Faculty of Health and Behavioural Science
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	24
Delivery Mode:	On Campus/Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong, Sydney, Distance
UOW Course Code:	1131
CRICOS Code:	020201C

### Overview

The aim of this program is to provide advanced professional education for health service managers in the concepts, theories, approaches and practices of health management.

### Entry Requirements / Assumed Knowledge

A Bachelor degree of at least three years duration from a recognised tertiary institution or equivalent, together with a minimum of two years relevant work experience. In special circumstances, an applicant holding acceptable academic or professional qualifications and with relevant work experience of not less than two years, may be admitted. International students are required to have achieved an IELTS score of 6.5, with a level of 6.0 in all bands.

### Course Requirements

Subjects	Session	Credit Points
Two subjects selected from:		
GHMD906      Quality Management for Health Services	Autumn	6
GHMD924      Health Information Systems	Autumn	6
GHMD908      Health Services Planning and Evaluation	Spring	6
GHMD909      Comparative Health Systems: Policies and Politics	Spring	6
Plus two subjects from:		
TBS 901      Accounting for Managers	Autumn	6
TBS 903      Managing People in Organisations	Spring	6
ECON918      Economics of Health Care	Autumn	6

### Credit Towards other Courses

On completion of the Graduate Certificate of Health Management, students may apply to enter the Master of Health Management, Master of Public Health or Master of Science (Population Health) programs.

## Graduate Certificate in HIV/AIDS

Testamur Title of Degree:	Graduate Certificate in HIV/AIDS
Abbreviation:	GCertHIV/AIDS
Home Faculty:	Faculty of Health and Behavioural Science
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	24
Delivery Mode:	On Campus
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1158
CRICOS Code:	N/A

## Overview

The aim of the program is to up-skill health workers in HIV/AIDS knowledge and service provision skills and provide academic recognition to health workers in the area of HIV/AIDS.

## Entry Requirements / Assumed Knowledge

A Bachelor degree of at least three years duration or other qualification and relevant health service experience, approved by the Head of the Program. In special circumstances, an applicant holding acceptable academic or professional qualifications and with relevant work experience of not less than two years, may be admitted. International students are required to have achieved an IELTS score of 6.5, with a level of 6.0 in all bands.

## Course Requirements

Subjects		Session	Credit Points
Core Subjects			
GHMD928	Introduction to Infectious Disease – HIV/AIDS & Hepatitis	Spring	6
GHMD981	Reproductive Health Care in Developing Countries	Spring	6
<b>Electives</b>			
Select one of the following :			
GHMD905	Social Foundations of Public Health	Autumn	6
GHMD912	Health Promotion	Autumn	6
Plus one of the following:			
GHMB902	Nursing Management	Spring	6
GHMB950	Reflective Practice	Autumn	6

## Credit Towards other Courses

On completion of the Graduate Certificate in HIV/AIDS, students may apply to enter the Master of Public Health, Master of Science (Population Health) or Master of Nursing programs.

## Graduate Certificate in Public Health

Testamur Title of Degree:	Graduate Certificate in Public Health
Abbreviation:	GCertPubHlth
Home Faculty:	Faculty of Health and Behavioural Science
Duration:	1 year part-time
Total Credit Points:	24
Delivery Mode:	Day/Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong and off-campus by distance education
UOW Course Code:	1130
CRICOS Code:	N/A

## Overview

The aim of this program is to provide health professionals and others with the opportunity to develop competencies in public health. Students can gain a qualification in public health in a flexible manner, including a choice of subjects and a manageable investment of time and money.

## Entry Requirements / Assumed Knowledge

Entrants to the course normally hold a three year undergraduate degree (or equivalent). An applicant holding other acceptable qualifications may be admitted to this course. International students are required to have achieved an IELTS score of 6.5, with a level of 6.0 in all bands.

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## Course Requirements

The Graduate Certificate in Public Health is awarded on the successful completion of 24 credit points of course work selected from the following subjects:-

### Course Program

Subjects (by year)	Session	Credit Points
Core Subjects		
GHMD905 Social Foundations of Public Health	Autumn	6
and/or		
GHMD912 Health Promotion	Autumn	6
plus		
GHMD983 Statistics in Health Research	Spring	6
GHMD904 Epidemiology#	Spring	6
<b>Electives</b>		
<b>Schedule 1</b>		
GHMD903* Public Health Communication and Data Skills	Autumn/Spring	6
GHMD936 Public Health Nutrition	Autumn	6
GHMD913 Alcohol and Other Drug Studies	Autumn	6
GHMD930* Mass Media and Population Health	n/o 2007	6
GHMB923* Legal and Professional Issues	Autumn	6
GHMB940 Indigenous Family Studies	Autumn	6
GHMB943 Health and Human Ecology	Autumn	6
GHMD925 Aboriginal Health Issues	Spring	6
GHMD981** Reproductive Health Care in Developing Countries	Spring	6
GHMB941 Indigenous Health Patterns	Spring	6
GHMB944 Community Resource Planning	Spring	6
GHMD985 Public Health Investigation	Spring	6
GHMD986 Environmental Health	Autumn	6
<b>Schedule 2</b>		
GHMD906 Quality Management for Health Services	Autumn	6
GHMD924 Health Information Systems	Autumn	6
ECON918 Economics of Health Care	Autumn	6
TBS901* Accounting for Managers	Autumn	6
TBS903* Managing People in Organisations	Spring	6
GHMD909 Comparative Health Systems	Spring	6
GHMD908 Health Services Planning and Evaluation	Spring	6
GHMB902* Nursing Management	Spring	6

\*These subjects not available by distance education

\*\*Block delivery on campus

### Credit Towards Other Courses

On completion of the Graduate Certificate in Public Health, students may apply to enter the Masters of Public Health. Successful applicants will be required to complete a further 24 credit points of course work from the Diploma program.

School of Nursing, Midwifery and Indigenous Health

# Master of Indigenous Health

Testamur Title of Degree:	Master of Indigenous Health
Abbreviation:	MIndHealth
Home Faculty:	Health and Behavioural Sciences
Duration:	1.5 years or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Flexible / Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	589
CRICOS Code:	031165M

## Overview

The Master of Indigenous Health is currently delivered through distance education, with some provision for negotiated tutorial time.

The course provides students with knowledge and skills to effectively address Indigenous community health, community development, and cultural issues in relation to Indigenous health.

## Entry Requirements / Assumed Knowledge

A Bachelor degree of at least three years duration or Graduate Diploma (or equivalent), from a recognised tertiary institution. Recognition is given for relevant work experience and prior learning.

## Course Requirements

Students complete a program of 72 credit points, including the Graduate Diploma in Indigenous Health (48 credit points):

## Course Program

Subjects (by year)	Session	Credit Points
GHMB940 Indigenous Family Studies	Autumn	6
GHMB943 Health and Human Ecology	Autumn	6
GHMB941 Indigenous Health Patterns	Spring	6
GHMB944 Community Health Resource Planning	Spring	6
GHMB942 Special Topic	Autumn/ Spring	12
Plus electives to the value of 12 credit points chosen in consultation with the Course Coordinator, plus:		
GHMB998 Minor Thesis	Autumn/ Spring	24

## Other Information

Ms Faye McMillan, Postgraduate Indigenous Health Coordinator +61 2 4221 3453 or [fayemc@uow.edu.au](mailto:fayemc@uow.edu.au) .  
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# Master of Nursing

Testamur Title of Degree:	Master of Nursing
Abbreviation:	MNurs
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Day/Evening/Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	583
CRICOS Code:	009251G

## Overview

The Master of Nursing is designed to prepare nurses for senior roles in nursing and in the health care system. It is a program of either selected coursework, or by a combination of coursework and a major project.

The aims of the program are to prepare candidates with beginning competence in research methods and design and provide candidates with important current evidence based health care and nursing information. The main objectives are to provide an academic avenue for professional development, knowledge and comprehension of research methods and design, and of evidence based practice.

## Entry Requirements / Assumed Knowledge

A Bachelor degree in Nursing of at least three years duration or a Graduate Certificate in Nursing from a recognised tertiary institution. 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.

## Course Requirements

The Master of Nursing is a 48 credit point program that may consist entirely of coursework, or may be a combination of coursework and a major project. There are four core subjects that all students must complete (24 credit points); the remaining 24 credit points can be made up from the elective subject list below, or the student may elect to complete their program by undertaking a research project (Major Project).

## Course Program

Subjects (by year)		Session	Credit Points
Core Subjects			
GHMB950	Reflective Practice 1	Autumn or Spring	6
GHMB951	Reflective Practice 2	Autumn or Spring	6
GHMB923	Legal and Professional Issues	Autumn	6
GHMD984	Health Research Methodology	Spring	6
Elective Subjects			
GHMB902	Nursing Management	Autumn or Spring	6
GHMB903	Scientific and Quantitative Development in Acute Care Nursing	Autumn or Spring	6
GHMB906	Acute Care Nursing: Reflections on Practice	Autumn or Spring	6
GHMB907	Fundamental Concepts in Developmental Disability	Autumn	6
GHMB908	Applied Behavioural Science for Developmental Disability Practice	Spring	6
GHMB910	Contemporary Issues in Developmental Disability	Spring	6
GHMD913	Alcohol and Other Drug Studies	Autumn	6

GHMD904	Epidemiology	Spring	6
GHMD905	Social Foundations of Public Health	Autumn	6
GHMD906	Quality Management for Health Services	Autumn	6
GHMD908	Health Services Planning and Evaluation	Spring	6
GHMD909	Comparative Health Systems	Spring	6
GHMD912	Health Promotion	Autumn	6
GHMD924	Health Information Systems	Autumn	6
GHMD925	Aboriginal Health Issues	Spring	6
GHMD936	Public Health Nutrition	Autumn	6
Students who elect to undertake research enrol in:			
GHMB997	Major Project	Autumn or Spring	24

Candidates must also complete on-line TCHR021 Statistical Literacy or demonstrate statistical literacy as a pre-requisite for enrolling in GHMD984.

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au).

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## Master of Nursing (Mental Health)

Testamur Title of Degree:	Master of Nursing (Mental Health)
Abbreviation:	MNursMntlHlth
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Day/Flexible
Starting Session(s):	Autumn / Spring
Location:	Wollongong / Flexible Delivery
UOW Course Code:	583
CRICOS Code:	009251G

## Overview

The Master of Nursing (Mental Health) is designed for both practitioners commencing in the specialty of mental health nursing, and experienced Mental Health and Drug and Alcohol Nurses.

## Entry Requirements / Assumed Knowledge

A Bachelor degree in Nursing of at least three years duration from a recognised tertiary institution, or successful completion of the Graduate Certificate in Mental Health Nursing, and qualification to practise as a Registered Nurse.

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.

## Course Requirements

The candidate is required to undertake 48 credit points to successfully complete the Master of Nursing (Mental Health).

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at end of this chapter.

## Course Program

Subjects (by year)	Session	Credit Points
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Arts	Core Subjects			
	GHMB950	Reflective Practice 1	Spring	6
	GHMB989	Mental Health Nursing: Clinical Principles and Practice	Annual	12
	GHMB934	Assessment and Diagnosis in Mental Health	Autumn	6
Commerce	GHMB954	Drug and Alcohol Studies	Autumn	6
	GHMB932	Principles and Practice of Psychosocial Rehabilitation	Autumn	6
	GHMB935	Case Management in Mental Health	Spring	6
	GHMB902	Nursing Management	Spring	6
Other Information				
Creative Arts	Further information is available from: Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or <a href="mailto:william@uow.edu.au">william@uow.edu.au</a> . Assoc Prof Janette Curtis, Course Coordinator, +61 2 4221 3467 or <a href="mailto:jcurtis@uow.edu.au">jcurtis@uow.edu.au</a> . Uniadvise 1300 367 869. Visit our website: <a href="http://www.uow.edu.au/health/nursing">www.uow.edu.au/health/nursing</a> .			
Education	Master of Science (Developmental Disability)			
Engineering	Testamur Title of Degree: Master of Science (Developmental Disability)			
	Abbreviation: MSc(DD)			
Graduate School of Business	Home Faculty: Health and Behavioural Sciences			
	Duration: Additional 6 months following completion of the Graduate Diploma			
Health & Behavioural Sciences	Total Credit Points: 24 credit points (above the 48 credit points completed in the Graduate Diploma in Science (Developmental Disability) (Currently under review)			
	Delivery Mode: Face-to-face			
Informatics	Starting Session(s): Autumn/Spring			
	Location: Wollongong			
Law	UOW Course Code: 574			
	CRICOS Code: 048497G			
Science	Overview			
	This multidisciplinary program is designed for health and education professionals who work in the developmental disability sector. It aims to provide an appropriate theoretical and conceptual framework for practice and access to contemporary information relating to developmental disability. The course consists of specialist developmental disability subjects and electives. Emphasis is on applying theoretical, research-based knowledge to practice in the developmental disability field.			
Entry Requirements / Assumed Knowledge				
Successful completion of the University of Wollongong's Graduate Diploma in Science (Developmental Disability). 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.				
Course Requirements				
Students enrolling in the Master of Science (Developmental Disability) already will have completed the 48 credit point Graduate Diploma in Science (Developmental Disability). The candidate is required to undertake a further 24 credit points of subjects to successfully complete the Master of Science (Developmental Disability). Students undertake a research project on an aspect of developmental disability that consolidates earlier studies in developmental disability and research methodology.				
Course Program				
Following completion of the requirements for the Graduate Diploma in Science (Developmental Disability) students enrol in:				
Subjects (by year)			Session	Credit Points

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au).

Ms Isla Bowen, Course Coordinator, +61 2 4221 3470 or [isla\\_bowen@uow.edu.au](mailto:isla_bowen@uow.edu.au).

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## Master of Science (Gerontology and Rehabilitation Studies)

Testamur Title of Degree:	Master of Science (Gerontology and Rehabilitation)
Abbreviation:	MSc(G&RS)
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Day / Evening / Flexible
Starting Session(s):	Autumn / Spring
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	048497G

### Overview

The Master of Science (Gerontology and Rehabilitation Studies) is designed to provide opportunities for practitioners working with older people or clients with rehabilitation needs to enhance their knowledge and clinical skills in relevant areas. The focus of the course is on enabling practitioners to prepare for new roles related to clinical leadership, management, education, or research, in the area of aged and rehabilitation care. The course provides an environment for multi-disciplinary colleagues to share best practice in addressing the challenges of implementing evidence-based practice, delivering new policy initiatives, and promoting user and carer involvement in care delivery.

### Entry requirements/ Assumed knowledge

A Bachelor degree, or equivalent, or successful completion of a Graduate Certificate in a related discipline. Consideration will be given to health professionals who do not hold any diplomas or the degrees listed above. International students must have an overall IELTS score of 6.5, with a level of at least 6.0 in all bands, reading and writing, speaking and listening.

### Course Requirements

The Master of Science (Gerontology and Rehabilitation Studies) is a 48 credit point programme that may consist entirely of course work, or may be a combination of coursework and major project. There are four core subjects that all students must complete (24 credit points). The remaining 24 credit points can be made up from elective subjects, or the student may elect to complete their programme by undertaking a research project (Major Project).

### Course Program

Subjects (by year)	Session	Credit Points
Core subjects		
GHMB956 Policy and Practice in the Care of Older People	Autumn	6
GHMB955 Dementia Care Across Settings	Autumn	6
GHMB957 Rehabilitation: Concepts and Practice	Spring	6
GHMB950 Reflective Practice	Autumn/Spring	6
Elective subjects		
Chosen from Nursing, Midwifery and Indigenous Health and Health Sciences		6

## Other information

Further information is available from Victoria Traynor Associate Professor (Rehabilitation, Continuing and Aged Care) and Director, Eastern Australia Dementia Training Study Centre: +61 (0)2 4221 3471/ 3339

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## Master of Science (Midwifery)

Testamur Title of Degree:	Master of Science (Midwifery)
Abbreviation:	MSc(Mid)
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Day / Evening
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	574M
CRICOS Code:	016124A

## Overview

The Master of Science (Midwifery) program enables Registered Nurses to undertake the recommended theory and clinical experience as required by the Nurses and Midwives Board, NSW, Australia in order to become Certified Midwives. The program aims to provide graduates with skills and advanced knowledge from several related disciplines to provide continuing care for women, their infants and families during the reproductive phase of their lifespan. During the program, the exploration and clarification of evidence-based midwifery practice is emphasised.

## Entry Requirements / Assumed Knowledge

Authorisation to practice as a Registered Nurse by the Nurses Registration Board of NSW, List A and:

- a three-year Bachelor of Nursing degree or equivalent (eg. Diploma in Nursing, Graduate Diploma in Nursing) or a three-year Bachelor degree from a related discipline;
- consideration may be given to certified midwives who do not hold any diplomas or previously mentioned degrees.

International students who are certified midwives in their own countries may enrol and are awarded advanced standing for the clinical subjects. International students who are not certified midwives in their own countries must obtain temporary registration as a nurse in New South Wales through the Nurses and Midwives Board, NSW, Australia in order to undertake the clinical subjects. International students are also 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.

## Course Requirements

The Master of Science (Midwifery) requires the completion of 48 credit points of subjects. Students are required to complete 1596 hours of reimbursed, or 1020 hours total supernumerary clinical experience, to demonstrate that they meet the Nurses Registration Board of NSW pre-requisite for registration.

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at the end of this chapter.

## Course Program

Subjects (by year)	Session	Credit Points
Core Subjects		
GHMB911* Midwifery Practice 1	Autumn	4
GHMB912* Midwifery Practice 2	Spring	4
GHMB913* Midwifery Practice 3	Summer	4
GHMB914 Midwifery Management 1	Autumn	6
GHMB915 Midwifery Management 2	Spring	6
GHMB916 Human Reproduction	Autumn	6

GHMB917	Midwifery in the Social Context	Spring	6
GHMB923	Legal and Professional Issues	Autumn	6
GHMB950	Reflective Practice 1	Spring	6

\* Clinical subjects

## Professional Recognition

Graduates are eligible to apply for registration as Certified Midwives with the Nurses Registration Board NSW. Registration in other states is assessed individually.

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au) .

Ms Moira Williamson, Coordinator, Master of Science (Midwifery), +61 2 4221 3381 or [moiraw@uow.edu.au](mailto:moiraw@uow.edu.au) .

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## Graduate Diploma in Indigenous Health

Testamur Title of Degree:	Graduate Diploma in Indigenous Health
Abbreviation:	GradDipIndHealth
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	668
CRICOS Code:	028406C

## Overview

The Graduate Diploma in Indigenous Health is currently delivered through distance education, with some provision for negotiated tutorial time.

The course provides students with knowledge and skills to effectively address Indigenous community health, community development and cultural issues in relation to Indigenous health.

## Entry Requirements / Assumed Knowledge

A Bachelor degree of at least three years duration from a recognised tertiary institution or Graduate Certificate in Indigenous Health.

## Course Program

Subjects (by year)	Session	Credit Points
GHMB940 Indigenous Family Studies	Autumn	6
GHMB943 Health and Human Ecology	Autumn	6
GHMB941 Indigenous Health Patterns	Spring	6
GHMB944 Community Health Resource Planning	Spring	6
GHMB942 Special Topic	Autumn/ Spring	12

PLUS electives to the value of 12 credit points chosen in consultation with the Course Coordinator.

## Other Information

For further information contact:

Ms Faye McMillan, Postgraduate Indigenous Health Coordinator +61 2 4221 3453 or [fayemc@uow.edu.au](mailto:fayemc@uow.edu.au).

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## Graduate Diploma in Science (Developmental Disability)

Testamur Title of Degree:	Graduate Diploma in Science (Developmental Disability)
Abbreviation:	GDipSc(DD)
Home Faculty:	Health and Behavioural Sciences
Duration:	2 years part-time
Total Credit Points:	48
Delivery Mode:	Weekend classes
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	650
CRICOS Code:	N/A

### Overview

The Graduate Diploma in Science (Developmental Disability) is a multi-disciplinary course designed for health and education professionals working in the developmental disability sector. It aims to provide an appropriate theoretical and conceptual framework for practice and access to contemporary information relating to developmental disability. The course consists of specialist developmental disability subjects and electives. Emphasis is on applying theoretical, research-based knowledge to practice in the developmental disability field.

### Entry Requirements / Assumed Knowledge

A Bachelor degree in Nursing of at least three years duration from a recognised tertiary institution. Other qualifications (eg. Diploma or Certificate in Nursing) may be acceptable for entry, in consultation with Course Coordinators.

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.

### Course Requirements

The candidate is required to undertake 48 credit points to successfully complete the Graduate Diploma in Science (Developmental Disability). Six subjects (36 credit points) are compulsory; the remaining two subjects (12 credit points) are elective subjects chosen in consultation with the Course Coordinator.

### Course Program

Subjects (by year)		Session	Credit Points
Core Subjects			
GHMB950	Reflective Practice 1	Autumn or Spring	6
GHMB907	Fundamental Concepts in Developmental Disability	Autumn	6
GHMB908	Applied Behavioural Science for Developmental Disability Practice	Spring	6
GHMB910	Contemporary Issues in Developmental Disability	Spring	6
GHMD983	Statistics in Health Research	Spring	6
GHMD984	Health Research Methodology	Spring	6
PLUS electives to the value of 12 credit points, to be discussed with the course coordinator.			

### Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au) .

Ms Isla Bowen, Course Coordinator, +61 2 4221 3470 or [isla.bowen@uow.edu.au](mailto:isla.bowen@uow.edu.au) .

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# Graduate Certificate in Developmental Disability

Testamur Title of Degree:	Graduate Certificate in Developmental Disability
Abbreviation:	GCertDD
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year part-time
Total Credit Points:	24
Delivery Mode:	Weekend classes
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	1149
CRICOS Code:	N/A

## Overview

The Graduate Certificate in Developmental Disability is a multi-disciplinary course designed for health and education professionals providing direct care to people with developmental disabilities. It aims to provide an appropriate theoretical and conceptual framework for practice and access to contemporary information relating to developmental disability.

The course consists of specialist developmental disability subjects and electives. Emphasis is on applying theoretical, research-based knowledge to practice in the developmental disability field.

## Entry Requirements / Assumed Knowledge

A Bachelor degree in a relevant discipline of at least three years duration from a recognised tertiary institution. Other qualifications (eg. Diploma or Certificate in Nursing) may be acceptable for entry, in consultation with Course Coordinator.

## Course Requirements

The candidate is required to undertake a 24 credit point program to successfully complete the Graduate Certificate in Developmental Disability. Three subjects (18 credit points) are compulsory; the remaining subject (6 credit points) is an elective subject chosen in consultation with the Course Coordinator.

## Course Program

Subjects (by year)	Session	Credit Points
Core Subjects		
GHMB907 Fundamental Concepts in Developmental Disability	Autumn	6
GHMB908 Applied Behavioural Science for Developmental Disability Practice	Spring	6
GHMB910 Contemporary Issues in Developmental Disability	Spring	6
PLUS elective to the value of 6 credit points, to be discussed with the Course Coordinator.		

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au) .

Ms Isla Bowen, Course Coordinator, +61 2 4221 3470 or [isla\\_bowen@uow.edu.au](mailto:isla_bowen@uow.edu.au) .

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# Graduate Certificate in Gerontology and Rehabilitation Studies

Testamur Title of Degree:	Graduate Certificate in Gerontology and Rehabilitation
Abbreviation:	GCert G&RS
Home Faculty:	Health and Behavioural Sciences
Duration:	6 months or part-time equivalent
Total Credit Points:	24
Delivery Mode:	Day / Evening / Flexible
Starting Session(s):	Autumn / Spring
Location:	Wollongong
UOW Course Code:	TBA
CRICOS Code:	TBA

## Overview

The Graduate Certificate (Gerontology and Rehabilitation Studies) is designed to provide opportunities for practitioners working with older people or clients with rehabilitation needs to enhance their knowledge and clinical skills in relevant areas. The focus of the course is on enabling practitioners to prepare for new roles related to clinical leadership, management, education, or research, in the area of aged and rehabilitation care. The course provides an environment for multi-disciplinary colleagues to share best practice in addressing the challenges of implementing evidence-based practice, delivering new policy initiatives, and promoting user and carer involvement in care delivery.

## Entry requirements/ Assumed knowledge

Professional Certificate in a health-related discipline. International students must have an overall IETLS score of 6.5, with a level of at least 6.0 in all bands, reading and writing, speaking and listening

## Course Requirements

The Graduate Certificate (Gerontology and Rehabilitation Studies) is a 24 credit point programme that consists entirely of course work. There are four core subjects that all students must complete (24 credit points).

## Course Program

Subjects (by year)	Session	Credit Points
Core subjects		
GHMB956 Policy and Practice in the Care of Older People	Autumn	6
GHMB955 Dementia Care Across Settings	Autumn	6
GHMB957 Rehabilitation: Concepts and Practice	Spring	6
GHMB950 Reflective Practice	Autumn/Spring	6

## Other information

Further information is available from Victoria Traynor Associate Professor (Rehabilitation, Continuing and Aged Care) and Director, Eastern Australia Dementia Training Study Centre: +61 (0)2 4221 3471/ 3339

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Visit our website: [www.uow.edu.au/health/nursing](http://www.uow.edu.au/health/nursing)

## Graduate Certificate in Indigenous Health

Testamur Title of Degree:	Graduate Certificate in Indigenous Health
Abbreviation:	GCertIndHealth
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year part-time
Total Credit Points:	24
Delivery Mode:	Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1114
CRICOS Code:	N/A

### Overview

The Graduate Certificate in Indigenous Health is currently delivered through distance education, with some provision for negotiated tutorial time.

The course provides students with the knowledge and skills to effectively address Indigenous community health, community development, and cultural issues in relation to Indigenous Health.

### Entry Requirements / Assumed Knowledge

A Bachelor degree of at least three years duration from a recognised tertiary institution, or undergraduate diploma or equivalent. Recognition is also given for relevant workplace experience and prior learning.

### Course Requirements

Students complete a program of 24 credit points.

### Course Program

Subjects (by year)	Session	Credit Points
GHMB940 Indigenous Family Studies	Autumn	6
GHMB943 Health and Human Ecology	Autumn	6
GHMB941 Indigenous Health Patterns	Spring	6
GHMB944 Community Health Resource Planning	Spring	6
Or other subjects approved by the Head of School.		

### Other Information

Ms Faye McMillan, Postgraduate Indigenous Health Coordinator +61 2 4221 3453 or [fayemc@uow.edu.au](mailto:fayemc@uow.edu.au)  
Uniadvise 1300 367 869

Visit our website: [www.uow.edu.au/health/nursing](http://www.uow.edu.au/health/nursing)

## Graduate Certificate in Mental Health Nursing

Testamur Title of Degree:	Graduate Certificate in Mental Health Nursing
Abbreviation:	GCertMntHlthNurs
Home Faculty:	Health and Behavioural Sciences
Duration:	6 months full-time or 1 year part-time
Total Credit Points:	24
Delivery Mode:	Day/Flexible
Starting Session(s):	Autumn / Spring
Location:	Wollongong / Flexible
UOW Course Code:	1124
CRICOS Code:	020202B

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## Overview

The Graduate Certificate in Mental Health Nursing is designed for practitioners in the specialty of mental health nursing and for experienced mental health nurses.

## Entry Requirements / Assumed Knowledge

A Bachelor degree in Nursing of at least three years duration from a recognised tertiary institution or qualifications to practice as a Registered Nurse or equivalent.

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.

## Course Requirements

The candidate is required to undertake 24 credit points to successfully complete the Graduate Certificate in Mental Health Nursing.

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at end of this chapter.

## Course Program

Subjects (by year)	Session	Credit Points
Core Subjects		
GHMB989 Mental Health Nursing: Clinical Principles & Practice	Annual	12
GHNB934 Assessment and Diagnosis in Mental Health	Autumn	6
GHMB950 Reflective Practice 1	Autumn/Spring	6

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au)

Dr Janette Curtis, Course Coordinator, +61 2 4221 3467 or [jcurtis@uow.edu.au](mailto:jcurtis@uow.edu.au)

Uniadvice 1300 367 869.

Visit our website: [www.uow.edu.au/health/nursing](http://www.uow.edu.au/health/nursing)

## Graduate Certificate in Nursing

Testamur Title of Degree:	Graduate Certificate in Nursing
Abbreviation:	GCertNurs
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year part-time
Total Credit Points:	24
Delivery Mode:	Day/Evening/Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1112
CRICOS Code:	N/A

## Overview

The Graduate Certificate in Nursing is a short, focused, clinically based course having both academic and industry relevance. It is designed to give students the flexibility to choose subjects that allow professional development to occur in tandem with academic rigour. Candidates may exit following completion of the required subjects, having acquired advanced knowledge in their chosen fields and having been prepared for advanced practice.

## Entry Requirements / Assumed Knowledge

A Bachelor degree in Nursing of at least three years duration from a recognised tertiary institution or a qualification to practice as a Registered Nurse or equivalent.

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.

## Course Requirements

The candidate is required to undertake 24 credit points, 12 credit points of which must be Nursing subjects, to successfully complete the Graduate Certificate in Nursing.

## Course Program

24 cp from the subjects listed below:

Subjects (by year)		Session	Credit Points
Nursing			
GHMB950	Reflective Practice 1	Autumn or Spring	6
GHMB951	Reflective Practice 2	Autumn or Spring	6
GHMB902	Nursing Management	Autumn or Spring	6
GHMB903	Scientific and Quantitative Development in Acute Care Nursing	Autumn or Spring	6
GHMB906	Acute Care Nursing; Reflections on Practice	Autumn or Spring	6
GHMB907	Fundamental Concepts in Developmental Disability	Autumn	6
GHMB908	Applied Behavioural Science for Developmental Disability Practice	Spring	6
GHMB910	Contemporary Issues in Developmental Disability	Spring	6
GHMB923	Legal and Professional Issues	Autumn	6
Public Health			
GHMD903	Public Health Communication and Data Skills	Autumn	6
GHMB913	Alcohol and Other Drug Studies	Autumn	6
GHMD904	Epidemiology	Spring	6
GHMD905	Social Foundations of Public Health	Autumn	6
GHMD906	Quality Management for Health Services	Autumn	6
GHMD908	Health Services Planning and Evaluation	Spring	6
GHMD909	Comparative Health Systems	Spring	6
GHMD912	Health Promotion	Autumn	6
GHMD924	Health Information Systems	Autumn	6
GHMD936	Public Health Nutrition	Autumn	6

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au) .

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# Graduate Certificate in Practice Nursing

Testamur Title of Degree:	Graduate Certificate in Practice Nursing
Abbreviation:	GCertPractNurs
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year part-time
Total Credit Points:	24
Delivery Mode:	Day/Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1150
CRICOS Code:	N/A

## Overview

This course is aimed at registered nurses working within general practice. It aims to inform the course participants of the sociological, economic and political aspects of general practice, as well as foster best practice principles in relation to clinical nursing practice within the general practice context.

This course has a strong emphasis on clinical skill development and decision-making within general practice. The development of this course has been in association with divisions of general practice and practice nurses both nationally and internationally.

## Entry Requirements / Assumed Knowledge

Must be a registered nurse within Australia; preferably currently employed as a practice nurse; however, registered nurses who are not currently employed as a practice nurse may enrol upon advice from the Course Coordinator. 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. They must also be a registered nurse in Australia, or have acquired temporary nurse's registration in Australia.

## Course Requirements

The candidate is required to undertake 24 credit points to successfully complete the Graduate Certificate in Practice Nursing.

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at the end of this chapter.

## Course Program

24 cp from the subjects listed below:

Subjects (by year)	Session	Credit Points
Nursing		
GHMB950 Reflective Practice 1	Autumn	6
GHMB902 Nursing Management	Spring	6
GHMB937 Context of General Practice	Autumn	6
GHMB938 Practice Nursing	Annual	6

## Other Information

Further information is available from:

Dr William Janes, Postgraduate Coordinator, +61 2 4221 3724 or [william@uow.edu.au](mailto:william@uow.edu.au) .

Ms Yvonne White, Course Coordinator, +61 2 4221 3337 or [white@uow.edu.au](mailto:white@uow.edu.au) .

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Visit our website: [www.uow.edu.au/health/nursing](http://www.uow.edu.au/health/nursing) .

# School of Psychology

## Doctor of Psychology (Clinical)

Testamur Title of Degree:	Doctor of Psychology (Clinical)
Abbreviation:	DPSyc(Clin)
Home Faculty:	Health and Behavioural Sciences
Duration:	3.5 years full-time or part-time equivalent
Total Credit Points:	168
Delivery Mode:	Face-to-face
Starting Session(s):	Normally Autumn session
Location:	Wollongong
UOW Course Code:	208
CRICOS Code:	027469G

### Overview

This program provides students with a comprehensive understanding of the principles governing psychological assessment and therapy, and the clinical skills required to assess and treat clients with a wide variety of clinical conditions in both child and adult populations.

The doctoral program equips postgraduates with clinical and research knowledge, and skills superior to those acquired at the professional Masters level.

### Entry Requirements / Assumed Knowledge

Candidates must have an honours degree in Psychology of at least four years duration of Class II, Division 1 standard or higher. Applicants must submit two referee's reports, a personal statement, a research proposal and attend a selection interview. Candidates in the MPSyc(Clin) may apply to transfer to this course at the completion of year 1. For entry details consult [www.uow.edu/health/psyc](http://www.uow.edu/health/psyc)

Places in this course are limited and will be based on academic merit and personal suitability.

International students are required to have achieved an IELTS score of 6.5 overall, with at least 6.0 in all bands, reading and writing, speaking and listening.

### Course Requirements

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at the end of this chapter.

In addition to coursework and practicum requirements, candidates will be required to successfully complete a supervised research program on a topic that is consistent with key research interests of the School of Psychology or the Illawarra Institute of Mental Health.

### Course Program

Subjects (by year)	Session	Credit Points
GHMC951 Child and Adult Assessment and Psychopathology	Autumn	8
GHMC952 Principles of Psychotherapy	Autumn	8
GHMC953 Neuropsychology and Neuropsychiatric Disorders	Spring	8
GHMC954 Cognitive Behavioural Therapies	Spring	8
THES916 Research Thesis	Spring	16
GHMC956 Special Groups and Methods	Autumn	8
THES916 Research Thesis	Autumn	16
GHMC955 Health and Wellbeing	Spring	8
THES916 Research Thesis	Spring	16
GHMC920 Psychotherapy of Personality Disorders	Annual	4
GHMC921 Clinical Supervision and Practice	Annual	4

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THES916	Research Thesis	Autumn	16
THES924	Research Thesis	Autumn/Spring	24

## Professional Recognition

This program is accredited by the NSW Psychologists Registration Board for registration as a psychologist by the Australian Psychological Society at 5, 6 and 7 year level, and by the APS College of Clinical Psychologists.

## Master of Psychology (Clinical)

Testamur Title of Degree:	Master of Psychology (Clinical)
Abbreviation:	MPsyc (Clin)
Home Faculty:	Health and Behavioural Sciences
Duration:	2 years full-time or part-time equivalent
Total Credit Points:	96
Delivery Mode:	Face-to-face
Starting Session(s):	Normally Autumn session
Location:	Wollongong
UOW Course Code:	599
CRICOS Code:	027467J

## Overview

The Master of Psychology (Clinical) is a fully accredited professional 5 and 6 year of study for the purpose of membership of the Australian Psychological Society College of Clinical Psychologists.

This program provides a comprehensive understanding of the principles governing psychological assessment and therapy. It equips students with clinical skills required to assess and treat clients with a wide variety of clinical conditions in both child and adult populations.

## Entry Requirements / Assumed Knowledge

Candidates must have an honours degree or equivalent in Psychology of at least four years duration of Class II, Division 2 standard or higher. Applicants must submit two referee's reports, a personal statement, and attend a selection interview. Places in this course are limited and will be based on academic merit and personal suitability. The program will involve four sessions of full-time study or their equivalent part-time.

International students are required to have achieved an IELTS score of 6.5 overall, with at least 6.0 in all bands, reading and writing, speaking and listening.

Students should consult the information on Criminal Records Checks, Prohibited Employment Declaration and Infectious Diseases at the end of this chapter.

## Course Program

Subjects (by year)	Session	Credit Points
GHMC951 Child and Adult Assessment and Psychopathology	Autumn	8
GHMC952 Principles of Psychotherapy	Autumn	8
GHMC946 Research Project A	Autumn	8
GHMC953 Neuropsychology and Neuropsychiatric Disorders	Spring	8
GHMC954 Cognitive Behavioural Therapies	Spring	8
GHMC946 Research Project A	Spring	8
GHMC955 Health and Wellbeing	Autumn	8
GHMC947 Research Project B	Autumn	16
GHMC956 Special Groups and Methods	Spring	8
GHMC947 Research Project B	Spring	16

## Professional Recognition

This program is accredited by the NSW Registration Board for registration as a psychologist by the Australian Psychological Society at 5 and 6 year level and by the APS College of Clinical Psychologists.

## Master of Science (Psychology)

Testamur Title of Degree:	Master of Science (Psychology)
Abbreviation:	MSc (Psyc)
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	029430F

## Overview

This program is available to applicants with a major study in Psychology. Because the APS reserves the name 'Masters' for 5th and 6th year courses, this course is not accredited by the Australian Psychological Society. It is thus not suitable for Australian students who intend to proceed further with APS accredited professional training. The program structure allows international students to tailor their studies to suit the requirements of the profession in their own countries.

## Entry Requirements / Assumed Knowledge

A Bachelor degree with a major in Psychology of at least three years duration from a recognised tertiary institution or equivalent.

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 speaking and listening.

## Course Program

Subjects	Session	Credit Points
GHMC988 Contemporary Issues for Professional and Research Psychologists	Autumn	6
GHMC985 Principles and Practices of Psychological Assessment	Annual	6
GHMC989 Advanced Abnormal Psychology	Spring	6
GHMC979 Major Research Project	Annual	18
Plus two electives chosen from the following:		
GHMC984 Social Psychology and Health	Spring	6
GHMC978 Child and Adolescent Psychology	Autumn	6
GHMD965 Principles and Practices of Psychosocial Rehabilitation	Autumn	6
GHMB934 Assessment and Psychopathology B	Autumn	6
GHMB935 Case Management in Mental Health	Spring	6
GHMD983 Statistics in Health Research	Autumn	6

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# Postgraduate Diploma in Psychology

Testamur Title of Degree:	Postgraduate Diploma in Psychology
Abbreviation:	PGradDipPsych
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn session
Location:	Wollongong
UOW Course Code:	674
CRICOS Code:	026168F

## Overview

The Postgraduate Diploma in Psychology is a fourth year of study, accredited by the Australian Psychological Society, for graduates with a major in Psychology. It is an alternative to the Honours degree.

It is a partial qualification for registration as a Psychologist with the Psychologists Registration Board of New South Wales – a post diploma period of supervision also being required.

The Postgraduate Diploma is not intended as a route to PhD studies but it can serve as a 4th year preparatory to further postgraduate coursework degrees (eg, the Clinical Masters degree) at Wollongong and similar postgraduate courses in other universities. However, applicants should check with individual university departments on this matter before committing themselves to the course of study.

## Entry Requirements / Assumed Knowledge

Eligibility for entry to the Postgraduate Diploma in Psychology program depends on the successful completion of a Bachelor degree from the University of Wollongong with a major in Psychology, or an equivalent qualification from another tertiary institution approved by the Council of the University of Wollongong and accredited by the Australian Psychological Society.

Entry to the Postgraduate Diploma is competitive and is based on academic qualifications. For the purposes of entry to the program we use the best 48 credit points from successfully completed 200- and 300- level Psychology subjects.

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 speaking and listening.

## Course Program

Subjects (by year)	Session	Credit Points
GHMC988 Contemporary Issues for Professional and Research Psychologists	Autumn	6
GHMC984 Social Psychology and Health	Spring	6
GHMC985 Principles and Practices of Psychological Assessment	Annual	6
GHMC989 Advanced Abnormal Psychology	Spring	6
GHMC978 Child and Adolescent Psychology	Autumn	6
GHMC979 Major Research Project	Annual	18

## Professional Recognition

Our degrees are set up to meet the requirements of external bodies such as the APS and the NSW Registration Board. For information about these professional bodies, their regulations, and about post university practice as a Psychologist, please contact these bodies directly.

# Postgraduate Certificate in Professional Psychological Practice

Testamur Title of Degree:	Postgraduate Certificate in Professional Psychological Practice
Abbreviation:	PCertProPsyncPrac
Home Faculty:	Health and Behavioural Sciences
Duration:	2 years part-time
Total Credit Points:	32
Delivery Mode:	Face-to-face outside business hours
Starting Session(s):	Autumn session
Location:	Wollongong
UOW Course Code:	1145
CRICOS Code:	N/A

## Overview

The Postgraduate Certificate in Professional Psychological Practice is a post-fourth-year course designed to provide students with skills that will facilitate registration as a psychologist with the NSW Psychologists Registration Board. The course consists of a series of group supervision sessions integrated with workshops.

It is important to note that registration with the Board is not automatic on completion of this course.

## Entry Requirements / Assumed Knowledge

Eligibility for entry to the Postgraduate Certificate in Professional Psychological Practice is based on the successful completion of a 4th year of study in Psychology recognised by the NSW Psychologists Registration Board (eg an APS accredited 4 year degree) and acceptable performance in an intake interview.

This course is not available to international students.

## Course Requirements

Students can elect to complete one or all of the 4 annual 8 credit point subjects listed below. Successful completion of all subjects (total of 32 credit points) will lead to the award of the Certificate.

## Course Program

Subjects (by year)		Session	Credit Points
PSYC966	Professional Practice Group Supervision A	Annual	8
PSYC967	Professional Practice Workshops A	Annual	8
PSYC968	Professional Practice Group Supervision B	Annual	8
PSYC969	Professional Practice Workshops B	Annual	8

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# Smart Foods Centre

## Master of Nutrition Management

Testamur Title of Degree:	Master of Nutrition Management
Abbreviation:	MNutrMgmt
Home Faculty:	Health and Behavioural Sciences
Duration:	2 years part-time
Total Credit Points:	48
Delivery Mode:	Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1511
CRICOS Code:	N/A

### Overview

The Master of Nutrition Management allows students to critically examine key issues relating to food product development in Australia today, and apply new knowledge and skills to developments within their own work environments.

### Entry Requirements / Assumed Knowledge

Applicants must possess an undergraduate degree from a recognised Australian university or institution of equivalent standing, with a grade average of at least 60%; or, applicants must possess an undergraduate degree from a recognised Australian university or institution of equivalent standing, with a grade average between 50% and 59% and must also have completed a minimum of two years full-time relevant work experience (managerial or supervisory in nature and/or which carries a level of responsibility) after graduation.

In special circumstances, applicants who hold other academic or professional qualifications and have a minimum of five years full-time or ten years part-time relevant work experience, may also be granted admission to the program. International students are required to have achieved an IELTS score of 6.5, with a minimum level of 6 in reading writing, speaking and listening.

### Course Requirements

The Master of Nutrition Management comprises 4 nutrition and 4 management subjects totalling 48 credit points, over four sessions part-time.

### Course Program

Subjects (by year)	Session	Credit Points
SFC901 Contemporary Issues in Food and Nutrition	Spring	6
SFC902 Food Regulation and Policy in Australia	Autumn	6
SFC903 Nutrition Research	Autumn	6
SFC904 Nutrition in Food Innovation	Spring	6
TBS901 Accounting for Managers	Autumn	6
TBS902 Statistics for Decision Making	Autumn/Spring	6
TBS903 Managing People in Organisations	Spring	6
TBS904* Marketing Management	Modular	6

\* Alternate subject for 2007 is MARK922 which is offered in Autumn session.

### Credit Towards Other Courses

Students may undertake another session of work including a project to receive a Master of Science (Nutrition Management) or undertake the remaining requirements of a Master of Business Administration program to achieve this as an additional qualification. Students need to meet the required two years work experience for the Master of Business Administration program.

## Master of Science (Nutrition Management)

Testamur Title of Degree:	Master of Science (Nutrition Management)
Abbreviation:	MSc(NutrMgmt)
Home Faculty:	Health and Behavioural Sciences
Duration:	2 years part-time
Total Credit Points:	72
Delivery Mode:	Flexible
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	048497G

### Overview

The Master of Science (Nutrition Management) allows students to critically examine key issues relating to food product development in Australia today, and apply new knowledge and skills to developments within their own work environments. In addition, students have the opportunity to conduct a major project to apply these skills in a research context, or further develop Business and/or Science knowledge.

### Entry Requirements / Assumed Knowledge

Applicants must possess an undergraduate degree from a recognised Australian university or institution of equivalent standing, with a grade average of at least 60%; or,

Applicants must possess an undergraduate degree from a recognised Australian university or institution of equivalent standing, with a grade average between 50% and 59%, and must also have completed a minimum of two years full-time relevant work experience (managerial or supervisory in nature and/or which carries a level of responsibility) after graduation.

In special circumstances, applicants who hold other academic or professional qualifications and have a minimum of five years full-time or ten years part-time relevant work experience may also be granted admission to the program.

International students are required to have achieved an IELTS score of 6.5, with a minimum level of 6 in reading writing, speaking and listening.

### Course Requirements

The Master of Science (Nutrition Management) comprises 72 credit points made up of 4 nutrition and 4 management subjects plus an additional 24 credit points from either a major project (24 credit points) or 4 electives chosen from the Master of Business Administration subjects, or other subjects approved by the Associate Director (Education).

### Course Program

Subjects		Session	Credit Points
Year 1			
SFC901	Contemporary Issues in Food and Nutrition	Spring	6
SFC902	Food Regulation and Policy in Australia	Autumn	6
SFC903	Nutrition Research	Autumn	6
SFC904	Nutrition in Food Innovation	Spring	6
TBS901	Accounting for Managers	Autumn	6
TBS902	Statistics for Decision Making	Autumn/Spring	6
TBS903	Managing People in Organisations	Spring	6
TBS904*	Marketing Management	Modular	6
Year 2			
GHMA997	Major Project	Spring	24

or

4 electives chosen from the Master of Business Administration subjects or other subjects approved by the Associate Director (Education).

\* Alternate subject for 2007 is MARK922 which is offered in Autumn session.

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## Further Study Options

Students who have completed the requirements of the Master of Science (Nutrition Management) may progress to the Master of Business Administration (MBA) with up to 48 credit points of advanced standing. Students need to meet the required two years work experience for the Master of Business Administration program.

## Graduate Certificate in Nutrition Management

Testamur Title of Degree:	Graduate Certificate in Nutrition Management
Abbreviation:	GCertNtrMgmt
Home Faculty:	Health and Behavioural Sciences
Duration:	1 year part-time
Total Credit Points:	24
Delivery Mode:	Day
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1132
CRICOS Code:	N/A

### Overview

The Graduate Certificate in Nutrition Management allows students to critically examine key issues relating to food product development in Australia today, and apply new knowledge and skills to developments within their own work environments.

### Entry Requirements / Assumed Knowledge

It is recommended that applicants possess an undergraduate degree from a recognised Australian university or institution of equivalent standing, with a grade average of at least 60%; or,

Applicants must possess an undergraduate degree from a recognised Australian university or institution of equivalent standing with a grade average between 50% and 59% and must also have completed a minimum of two years full-time relevant work experience (managerial or supervisory in nature and/or which carries a level of responsibility) after graduation.

However, applicants who hold other academic or professional qualifications and have a minimum of five years full-time or ten years part-time relevant work experience may also be granted admission to the program.

International students are required to have achieved an IELTS score of 6.5 with a minimum level of 6 in reading, writing, speaking and listening.

### Course Requirements

The Graduate Certificate in Nutrition Management comprises 2 nutrition and 2 management subjects totalling 24 credit points, over two sessions part-time.

### Course Program

Subjects (by year)		Session	Credit Points
Two subjects chosen from:			
SFC901	Contemporary Issues in Food and Nutrition	Spring	6
SFC902	Food Regulation and Policy in Australia	Autumn	6
SFC903	Nutrition Research	Autumn	6
SFC904	Nutrition in Food Innovation	Spring	6
Plus a further 12 cp from			
TBS901	Accounting for Managers	Autumn	6
TBS902	Statistics for Decision Making	Autumn/Spring	6
TBS903	Managing People in Organisations	Spring	6
TBS904*	Marketing Management	Modular	6

\* Alternate subject in 2007 is MARK922 which is offered in Autumn session.

## Other 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 the 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 prior to 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.

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## SUBJECT DESCRIPTIONS

### GHMA906 Research Projects

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2007/Autumn2008	Wollongong	On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A research project designed to develop an understanding of the scientific process through the experience of research. Students will design, propose, conduct, analyse, interpret and then present the results of a research project which can be related to the topic of their Major Thesis.

### GHMA909 Practicum

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A subject which introduces students to their supervisor's laboratory and allows for the development of technical skills and procedures critical to the success of their Major Project. If the student is undertaking a non-laboratory based thesis, another relevant subject may be substituted for GHMA909 with the approval of the HOD.

### GHMA913 Special Topics

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A subject which develops the students' ability to examine, access, interpret and evaluate primary and secondary source research data and ideas. Students will write an extensive critical review of the literature or other approved area of research related to their Major Thesis.

### GHMA915 Ergonomics In Practice

Autumn	Wollongong	On Campus
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**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to the discipline of ergonomics. The subject is designed to provide an overview of ergonomics to provide understanding and basic skills. This subject is particularly useful for OHS practitioners and those interested in further study of ergonomics and human factors. The Discipline of Ergonomics (or human factors) is the scientific discipline concerned with the understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data and methods to design in order to optimize human well-being and overall system performance. Ergonomists contribute to the design

and evaluation of tasks, jobs, products, environments and systems in order to make them compatible with the needs, abilities and limitations of people.

### GHMA920 Behavioural Change: Human Factors in OH&S

Spring	Wollongong	On Campus
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**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Traditional OH&S performance based strategies are giving way to developments in behavioural science that aim to recognise occupational, environmental and social factors influencing attitudes and behaviours in the workplace; provide an insight into accident causation and human error; and understand critical and non-desirable behaviour so as to eliminate or reduce the potential for human error. Our students will examine the results of a behavioural based program operating in industry so they understand the concepts and influences behind: Paradigms of Safety; Differing approaches applied to improve workplace OHS performance; Human Nature, Sensation, Perception, Stress and Distress; Desired, Undesirable and Critical Behaviours; Intervention Strategies; Identify barriers to behavioural modification within a culturally diverse workforce; Develop programs that promote and maintain safe behaviour.

### GHMA922 Occupational Hygiene and Toxicology

Spring	Wollongong	On Campus
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**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** In modern society every workplace contains chemical, physical or biological agents which may have the potential to give rise to adverse health effects in workers. This course aims to present the principles of occupational hygiene and toxicology and how this information is used by practitioners to recognise, evaluate and control workplace exposures.

### GHMA923 OH&S Risk Management

Autumn	Wollongong	On Campus
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**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will explore the nature of risk, hazard identification, risk assessment and control. Suitable tools such as Hazpac & Job Safety Analysis and risk modeling techniques such as HAZOP, HAZAN, QRA & PHA will be introduced to allow for the prediction of risk and the development of risk management strategies.

### GHMA927 Advanced Workplace Injury Management

Spring	Wollongong	On Campus
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**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This course should provide students with an overview of workplace injury management and return to work strategies. Principles of workplace rehabilitation and legislative requirements

specific to NSW will be covered. Students should gain practical skills and experience in workplace injury management and assessment through the use of case studies, with the emphasis on injury management – maintaining an injured worker in the workplace through appropriate workplace assessment, matching worker capabilities with work tasks, reducing the risk of re-injury, and promoting the return to full duties.

### **GHMA929 Exercise Psychology and Dietary Counselling**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** GHMA934 or BND434

Exclusions: GHMA933 OR BND433 OR PSYC216

**Subject Description:** The subject will combine an understanding of the central features of sports psychology with basic skills in dietary counselling and small group education in the context of diet and exercise. Students will study personality and situational factors influencing participation in sport, and cognitive and behavioural influences on the promotion of healthy lifestyles. They will counsel individuals in dietary change and develop skills in medical documentation and small group education.

### **GHMA930 Community and Public Health Nutrition**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: BMS310 OR GHMD936 OR SFC902

**Subject Description:** Key areas of community and public health nutrition include nutrition surveillance, food policy, program planning and health promotion. There will be a focus on community nutrition practice, covering such topics as maternal and infant nutrition, school based nutrition programs, diabetes education and the health of older people in the community. Submission of some assignment work via WebCT Vista.

### **GHMA931 Nutrients and Metabolism**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: BMS311

**Subject Description:** This subject covers the need for nutrients and how the human body metabolises these nutrients. It begins with basic concepts such as bioavailability of nutrients from food. It then focuses on specific nutrients, namely protein and fat quality, folate and B vitamins, calcium and bone health, and soy phytoestrogens, most of which do not have recommended dietary intakes (RDIs). The overall aims are 1) to understand the relationships between intake of nutrients and health status and 2) to develop an appreciation for the development of an RDI for a nutrient. Please note that this is a core subject for all of the University of Wollongong's nutrition degrees and hence it is tailored for nutrition students.

### **GHMA932 Research in Human Nutrition**

Autumn Wollongong On Campus

Annual Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: BMS312

**Subject Description:** The subject will introduce students to a range of key areas of research in human nutrition. Beginning with an overview of nutrition research and the development of literature reviews, topics will include diet intake methodology, the use of nutrient databases, biomedical assays and indicators, epidemiological and ethnographic approaches as they relate to nutrition.

### **GHMA933 Communication in Healthcare Practice**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** GHMA934 OR BND434

Exclusions: BND433, GHMA929

**Subject Description:** The subject will introduce you to the theory and practice of communication in the professional work environment, emphasising successful communication in a range of contexts. These include client counselling, small group education, community consultation, participation in meetings, working with the media and conflict resolution. In order to promote teamwork and group skills, the subject is taught on a small group basis, and you should prepare for each activity. In order to promote an understanding of how people learn in small groups, you are asked to keep a reflective journal and to critique the process at the completion of the subject.

### **GHMA934 Dietetics**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** GHMA931 and GHMA932; or BMS311 and BMS312

**Co-requisites:** GHMA930 or BMS310

Exclusions: BND434

**Subject Description:** Dietetics concerns the manipulation of food and dietary data with the aim of supporting nutritional health. This subject focuses attention on the nutritional needs of individuals, in clinical and community health settings, where nutritional intervention will improve or support the quality of life. This subject will draw upon much of your undergraduate and postgraduate studies. In particular you should revise your understanding of nutrition through the life cycle, human physiology and metabolic biochemistry.

### **GHMA935 Food Service and Dietetics Management**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** GHMA930 or BMS310 or GHMA931 or BMS311 or GHMA932 or BMS312

**Co-requisites:** None

Exclusions: BND435

**Subject Description:** The subject is an introduction to the management of food service operations and hospital dietetic departments. It will focus on the development of small and large scale cooking skills, menu planning and standard recipe manipulation in keeping

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Arts	with dietetic modifications. It will also develop the necessary skills and knowledge base to assist in and/or manage the provision of meals via an institutional food service. Aspects of organisational design, leadership, motivation, negotiation, resource management, decision making and power will be explored.		
Commerce	<b>GHMA937 Practical Studies in Nutrition and Dietetics</b> Autumn Wollongong On Campus Spring Wollongong On Campus Annual Wollongong On Campus Spring2007/Autumn2008 Wollongong On Campus <b>Credit Points:</b> 24 <b>Pre-requisites:</b> GHMA934 and GHMA935; GHMA933 or GHMA929 <b>Co-requisites:</b> None Exclusions: BND437 <b>Subject Description:</b> This subject comprises a practicum of at least 16–20 weeks duration which is spent in hospitals, community health centres, and other food-related organisations. Students will be under the supervision of experienced practitioners appropriate to the placement requirements. This placement is designed to develop the student's skills and competencies in a range of areas including specialised therapeutic diets and the provision of community nutrition programs. It also provides the students with opportunities to rehearse and demonstrate both interviewing and counselling skills, as well as information and behaviours required to allow the Dietitian to operate as an independent professional. Awareness of, and behaviours consistent with the knowledge of ethics requirements, confidentiality, accountability and other responsibilities of the autonomous professional operating either independently or as a member of a multidisciplinary team should be demonstrated by the student.		
Creative Arts			
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Engineering			
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Health & Behavioural Sciences	<b>GHMA951 Exercise Rehabilitation I: Musculoskeletal</b> Autumn Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> BMS203 and BEXS351 <b>Co-requisites:</b> None Exclusions: BEXS451 <b>Subject Description:</b> This subject extends the study of exercise rehabilitation providing revision related to the structure and function of major joints and introduces common pathologies – mechanisms and outcomes. The subject covers information related to evaluation of the injured site and the design and management of appropriate exercise rehabilitative techniques designed to improve functional capabilities and prevent reinjury. It is essential for students undertaking this subject to have excellent knowledge in Functional Musculoskeletal Anatomy and Exercise Physiology and Prescription. Students without this requisite knowledge will have difficulty completing this subject.		
Informatics			
Law			
Science	<b>GHMA952 Exercise Rehabilitation II: Cardiorespiratory &amp; Neurological</b> Autumn Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> BMS344 and BMS346 and BEXS352 <b>Co-requisites:</b> None		

Exclusions: BEXS452

**Subject Description:** This subject investigates the use of exercise as a clinical rehabilitative tool for patients with cardiovascular or neurological pathologies. The subject covers information related to evaluation of the pathology and the design and management of appropriate exercise rehabilitative techniques to improve functional capabilities and enhance quality of life.

### GHMA997 Major Project

Spring Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** Satisfactory prior knowledge of research methods. Consult academic adviser.

**Co-requisites:** None

**Subject Description:** Group or individual research project designed to give students an intensive one session research experience under the guidance of an academic supervisor. By the end of the session students should be able to – 1) Prepare a research proposal; 2) Present proposal in concise manner; 3) Prepare scientific report on research; 4) Present report at a research seminar; 5) Develop a poster.

### GHMB902 Effective Management in Health

Spring Wollongong Flexible

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will prepare students for the diverse and complex health care environments, in which they will conduct their professional practice. Each topic is designed to increase the learners understanding and knowledge of oneself through; self awareness, reflection and self evaluation. In order to practise effectively, nurses need to be self aware, open-minded and reflective, and to have developed an understanding of esoteric concepts such as knowing oneself and being responsible for others. The course will address each of these concepts from both theoretical and pragmatic perspectives. Nurses also need to understand the nature and culture of the health care organizations, in which they will generally practice. Diverse health care delivery systems will therefore be analysed and explored. Management requires an understanding of processes, systems and relationships. The Australian health care system will be contextualized from a global perspective. Therefore the Australian health care system is compared and contrasted with other health care systems. Contemporary concepts of management, in health care organizations, are analysed, explored and discussed in terms of their unique cultures and climates.

### GHMB903 Scientific and Qualitative Developments in Acute Care Nursing

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Investigates technological, biological, psychological and sociological developments that have created an impact in acute care nursing in recent times. Insights into specific technology and pharmacology used for diagnostic or therapeutic

purposes by nurses and the Health team will be targeted, including their characteristics, uses and efficacies within an holistic nursing care framework.

### GHMB905 Special Topic in Nursing

Autumn Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is a combined program of research and coursework leading to the completion of a minor project. Students will be expected to work closely with a supervisor on a project where a common interest exists.

### GHMB906 Acute Care Nursing: Reflections on Practice

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Focuses on relevant theories, themes and issues that have a practical bearing upon acute care nursing, and on models of acute care nursing that address evidence based practice. Practical aspects include pathophysiology of the Cardiovascular, Respiratory, Nervous and Alimentary systems and Acid Base balance; and Introduction to Electrocardiograph Interpretation.

### GHMB907 Fundamental Concepts in Developmental Disability

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Provides the basic scientific knowledge on which developmental disability practice is based. Emphasis upon the student gaining sound understanding of the nature of developmental disability within a broad social context. The body of knowledge which defines and identifies the nature of the group and the philosophical, ethical and legal foundations for practice will be addressed in this course.

### GHMB908 Applied Behavioural Science for Developmental Disability Practice

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** GHMB907 Fundamental Concepts in Developmental Disability

**Co-requisites:** None

**Subject Description:** Developmental disability practice makes extensive use of such skills and roles as assessment, programming, teaching, behaviour management and supportive counselling. To use these skills effectively, the student requires a knowledge of selected principles drawn from the behavioural sciences. This subject will provide the necessary theoretical framework, together with an emphasis on practical application and problem-solving skills.

### GHMB910 Contemporary Issues in Developmental Disability

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** GHMB907 Fundamental Concepts in Developmental Disability

**Co-requisites:** None

**Subject Description:** It is vitally important that practitioners in the field of developmental disability are willing to critically assess current practice and to objectively consider other service options. There are also a number of controversial issues in relation to the rights and responsibilities of people with developmental disabilities that must be addressed. This course will require independent and thoughtful analysis of such issues and critical assessment of current practice.

### GHMB911 Midwifery Practice 1

Autumn Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** GHMB916 (Part-time students)

**Co-requisites:** GHMB914, GHMB916, GHMB923 (Full-time students)

**Subject Description:** This subject is the first of three subjects that allows the student to acquire the necessary clinical experiences as designated by the Nurses and Midwives Board New South Wales. Midwifery Practice 1 is designed to introduce the student in the provision of care of the woman and her family throughout pregnancy, parturition and the puerperium. Special emphasis is on the well woman, pregnancy, fetus, parturition, puerperium and the neonate. Potential complications during childbearing and management of high-risk women are examined. There will be an emphasis on evidence-based practice, critical appraisal and professional issues for midwives. The practical application of different models of care is also explored. Clinical practice will consist of the experiences suggested by the Nurses and Midwives Board New South Wales. As required by the Nurses and Midwives Board New South Wales, students should complete Midwifery Practice 1, 2 & 3 in a time period not exceeding four consecutive academic semesters.

### GHMB912 Midwifery Practice 2

Spring Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** GHMB911, GHMB914, GHMB916

**Co-requisites:** GHMB915

**Subject Description:** This subject is the second of three subjects that allows the student to acquire the necessary clinical experiences as designated by the Nurses and Midwives Board New South Wales. The student progresses along a continuum, developing and consolidating skills and knowledge in the provision of care of the woman and her family learnt in the first clinical rotation.

### GHMB913 Midwifery Practice 3

Summer 2007/2008 Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** GHMB912, GHMB915

**Co-requisites:** None

**Subject Description:** This subject is the third of three subjects that allows the student to acquire the necessary clinical experiences as designated by the Nurses and Midwives Board New South Wales. Midwifery Practice 3 is designed for the student to continue, and finally complete, the provision of care of the woman and her family and to build on skills acquired whilst undertaking Midwifery Practice 1 & 2.

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Arts	<b>GHMB914 Midwifery Management 1</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> GHMB916 (Part-time students) <b>Co-requisites:</b> GHMB911, GHMB916, GHMB923 (Full-time students) <b>Subject Description:</b> This subject is designed to be taken in conjunction with the clinical subject, GHMB911 Midwifery Practice 1. The subject provides the theoretical framework for the student to function as a safe beginning midwifery student caring for women throughout the antenatal and intrapartum period. An ability to review literature is an essential component of this subject. Students are expected to facilitate their own learning by utilising the Library Database Workshops and the IT services available at the University. They are expected to achieve a high level of learning that is evidenced by the quality of analysis, synthesis and evaluation of evidence based research and its application to midwifery practice.
Commerce	
Creative Arts	
Education	<b>GHMB915 Midwifery Management 2</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> GHMB911, GHMB914, GHMB916, GHMB923 <b>Co-requisites:</b> GHMB912, GHMB917 <b>Subject Description:</b> This subject is designed to be taken in conjunction with the clinical subject, GHMB912 Midwifery Practice 2. Midwifery Management 2 is designed for the student to continue to learn and understand the theoretical midwifery framework underpinning midwifery practice. This subject continues the theoretical component relating to intrapartum, maternal, postnatal and neonatal care for the well mother and healthy baby. Potential complications will then be examined. An ability to review literature remains an integral component of this subject. Students are expected to continue to facilitate their own learning by utilising the Library Database Workshops and the IT services available at the University. They are expected to demonstrate a high level of learning that is evidenced by the quality of analysis, synthesis and evaluation of evidence based research and its application to midwifery practice.
Engineering	
Graduate School of Business	
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Informatics	<b>GHMB916 Human Reproduction</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject is designed to provide students with advanced knowledge of anatomy and physiology related to conception, pregnancy and birth. Biochemical, nutritional, and genetic influences on conception and embryonic, fetal, neonatal development and maternal responses will be addressed. Technology used in assessment, diagnosis and intervention at all stages of the reproductive process will be explained in terms of scientific principles. The knowledge gained from this course provides midwives with an important component of a scientific knowledge base from which to plan and provide midwifery practice for their clients.
Law	
Science	<b>GHMB917 Midwifery in the Social Context</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None

**Co-requisites:** None

**Subject Description:** This subject will provide the student with an in depth knowledge of theory and research, on psychological, sociological and cultural influences throughout the period of pregnancy, childbirth, and parenting. Evidenced based research, and knowledge of national guidelines and community resources are utilised to equip the student to assist the contemporary family throughout this transition to parenthood. Students are challenged to explore their own values and belief systems. They are encouraged to develop an appreciation for cultural and social diversity and differing perspectives they encounter in the clinical setting. Advocacy for womens choices and development of the midwifery profession is also explored. The implications of the content of this subject is to reiterate the primary health care role of the midwife.

### GHMB923 Legal and Professional Issues

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is designed to provide students with a knowledge of legal and professional issues in relation to their area of clinical practice. Relevant Australian legislation, appropriate case law and examples of moral reasoning will be used to provide a framework for clinical decision-making.

### GHMB925 Effective Leadership in Health

Autumn Wollongong Flexible

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

### GHMB926 Effective Clinical Mentorship in Health

Autumn Wollongong Flexible

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

### GHMB927 An Introduction to Human Anatomy and Physiology

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is designed to give the student an understanding of the structure and functioning of the human body. As this is a course designed for non-medical health professionals the major emphasis is on physiology rather than anatomy. All the organ systems of the human body are studied and appropriate links are made with both pathophysiology and human development. The laboratory sessions form an integral part of the course, expanding on and complementing the lectures. They allow time for more in-depth study of structure and illustrate functioning through a series of carefully designed experimental procedures.

### GHMB932 Principles and Practices of Psychosocial Rehabilitation

Autumn Wollongong Flexible  
Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with a contemporary framework for understanding the rehabilitation and recovery process for people with a mental illness. It provides students with a set of knowledge and skills that can be applied in a range of contexts including case management and psychosocial rehabilitation services in both government and non-government sectors located in metropolitan, rural and remote areas. The subject examines theoretical and empirical issues associated with change enhancement, needs identification, collaborative goal setting, and collaborative task setting and monitoring outcomes. The skills component focuses on an understanding of the relationship between the clinician and the consumer (working alliance) and the process of recovery from mental illness undertaken by an individual consumer.

### GHMB933 Comprehensive Systems of Mental Health Care

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides an overview of basic theoretical models used to explain psychiatric disorder and presents a historical overview of mental health services. It examines the impact of the National Mental Health Strategy on the development of an integrated, comprehensive mental health service. Students are provided with an understanding of each component of a community service network, including the role and function of crisis intervention services, residential services, hospital based services, and multidisciplinary mental health structures. The role of consumer and carer advocacy organisations is examined.

### GHMB934 Assessment and Diagnosis in Mental Health

Autumn Wollongong Flexible  
Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the importance of various approaches and methods of assessment, including the assessment interview, the psychiatric history, symptom descriptions, functional assessment and family assessment. The major classification systems of DSM-IV and ICD-10 are examined in relation to their utility in identifying, describing and communicating about mental illness.

### GHMB935 Case Management in Mental Health

Spring Wollongong Distance  
Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject introduces candidates to the theory and practice of case management. It presents an overview of interventions and treatment options for people presenting with acute psychiatric disorders as well as those requiring more intensive rehabilitation. Principles and strategies for crisis intervention, including pharmacological management and family and network interventions are examined in detail. The clinical approach adopted is based on cognitive behavioural principles.

### GHMB936 Supervised Clinical Practice

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A range of clinical placement opportunities are available within Mental Health Services. However, before enrolling in this subject students must negotiate details of their proposed placement with the course coordinator and nominated clinical supervisor. Students must develop and submit an outline of the program including a description of the nature of the clinical work, specific competencies to be developed, and how the development of competencies will be monitored and evaluated by the clinical supervisor.

### GHMB937 Context of General Practice

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will address the historical, political, economical and sociological context of general practice. This subject will also include the structure of the Australian health care system, general practice models – both national and international, government incentive schemes, determinants of workload, care coordination, collaborative work practices, professional boundaries, and patient information management.

### GHMB938 Practice Nursing

Annual Wollongong Flexible  
Spring2007/Autumn2008 Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will address the theoretical principles and the application of these, to the clinical practice context of the practice nurse within general practice. This subject will examine evidence based practice in relation to nursing treatments and procedures, health promotion, and chronic disease self-management. This subject will also enable the student to undertake a critical analysis of their own clinical practice and develop strategies for professional development within their own practice. This critical analysis will be based upon best practice in relation to general practice nursing. Clinical competence will also be monitored in partnership with general practice and the School of Nursing, Midwifery and Indigenous Health, University of Wollongong.

### GHMB940 Indigenous Family Studies

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

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Arts	<p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject provides an overview of the societal and familial structures underpinning Indigenous peoples in Australia. There is a focus on the links between family and health, the role of Indigenous women in particular, and other relevant cultural, historical and social factors.</p>	<p>health care and community development framework. Some of the principles that guide education for health and planning education sessions are also discussed.</p>
Commerce	<p><b>GHMB941 Indigenous Health Patterns</b></p> <p>Spring Wollongong Distance</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> The aim of this subject is to examine the relationships between mainstream/western approaches to health care provisions and Indigenous Australia approaches to health care provision.</p>	<p><b>GHMB950 Reflective Practice 1</b></p> <p>Autumn Wollongong On Campus</p> <p>Spring Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This Reflective Practice subject develops (or enhances existing) personal conceptual frameworks and skills of reflectivity applicable to practice, so as to enable participants to 'stand back' from situations, to see the 'whole of the moon' rather than just 'the crescent'. The subject promotes reflection upon theory and research which underpins practice, so as to enable participants to identify potential areas for practice development and meaningful research.</p>
Creative Arts	<p><b>GHMB942 Special Topic</b></p> <p>Annual Wollongong Distance</p> <p>Spring2007/Autumn2008 Wollongong Distance</p> <p><b>Credit Points:</b> 12</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject is designed for students to develop a proposal for a research study towards a Master Of Indigenous Health, and for non research students wishing to complete a minor project in a specific content area. The research students will be supervised by a lecturer who has expertise in research and chosen the field of study. The techniques of study will include library searches, an oral presentation of the proposal, and a written proposal. For non-research students the content will reflect the content area of the specified topic being studied under a supervisor. The techniques of study will include library, an oral presentation of the proposal, and a written minor project.</p>	<p><b>GHMB951 Reflective Practice 2</b></p> <p>Autumn Wollongong On Campus</p> <p>Spring Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> GHMB950</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject will build on the objectives for GHMB950 (its pre-requisite) in that it will enable students to further develop skills in writing literature reviews, as the rhetoric of literature searching and analysis. The particular focus of how these skills are utilised will be very much the domain of the student. He/she will be able to decide whether they wish to develop skills of: sustaining argument(s) through an extended piece of written work; writing for publication; or, developing an evidence base for planned innovation. There will also be an opportunity for students to consider skills related to framing research questions and writing research proposals from the basis of their reflections on practice.</p>
Education		
Engineering		
Graduate School of Business		
Health & Behavioural Sciences	<p><b>GHMB943 Health and Human Ecology</b></p> <p>Autumn Wollongong Distance</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject provides an overview of and an opportunity for discourse on key factors to be considered in environment, health and planning for urban, rural and remote Indigenous communities. There is a focus on the requirements of public health policy and legislation. There is also a critical interrogation of the relationship between the environment and issues of public and community health. Issues such as research, environmental racism, health settings, access to public health facilities and population stresses will be examined in the light of their impact on allocation of health resources and service delivery.</p>	<p><b>GHMB953 Special Topic in Nursing</b></p> <p>Autumn Wollongong On Campus</p> <p>Spring Wollongong On Campus</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> GHMB950</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject is designed for students to develop a proposal for a research study towards a Master Of Nursing – Research, and for non research students wishing to complete a minor project in a specific content area. The research students will be supervised by a lecturer who has expertise in research and chosen the field of study. The techniques of study will include library searches, an oral presentation of the proposal, and a written proposal. For non-research students the content will reflect the content area of the specified topic being studied under a supervisor.</p>
Informatics		
Law	<p><b>GHMB944 Community Resource Planning</b></p> <p>Spring Wollongong Distance</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject will provide students with an opportunity to identify, develop and evaluate practical applications of health promotion in Indigenous communities. The subject introduces the principles and theory of health promotion within a primary</p>	<p><b>GHMB954 Studies in Alcohol and Other Drugs</b></p> <p>Autumn Wollongong Flexible</p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject will provide an understanding of the pharmacological, psychological</p>
Science		

and sociological basis of drug use and drug dependence. It examines drug and alcohol use from a historical perspective and explores the impact that so called 'grand theories' of drug use has had on contemporary attitudes to substance use, on government policies and on treatment modalities.

### **GHMB955 Dementia Care Across Settings**

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The following will be the focus in this subject: workshop activities to develop new clinical skills and influence attitudes about working with people with dementia and their carers; development of advanced presentation skills through the poster assessment. The subject provides the opportunities to challenge negative attitudes and understanding about how situations, not individuals with dementia, are the cause of the distress expressed.

### **GHMB956 Policy and Practice in the Care of Older People**

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The following will be the focus in this subject: sociological, political, and social policy theory and concepts to understand ageing; academic work with a specific focus on those returning to studying after a break. This focus will provide students with opportunities to develop relevant theoretical knowledge and academic skills compliments the other two core subjects on the Gerontology and Rehabilitation Studies course.

### **GHMB957 Rehabilitation: Concepts and Practice**

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will build incrementally on general and topic specific knowledge skills developed during subjects taken in Autumn Session. The specific focus will be: student led seminars to develop in-depth clinical knowledge and enhance presentation skills; computer and facilitation skills through web-based discussions with colleagues. This subject provides an opportunity to apply theoretical concepts of rehabilitation in partnership with users, carers, multi-disciplinary team colleagues, and the voluntary sector.

### **GHMB989 Mental Health Nursing: Clinical Principles and Practice**

Annual Wollongong Flexible  
Spring 2007/Autumn 2008 Wollongong Flexible

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will combine theoretical underpinnings of mental health with a supervised clinical practice that will provide the opportunity to develop and refine clinical skills and interventions for people seriously affected by mental illness. Requirements for

the clinical practice component will be based on best practice guidelines and students will utilise a reflective model to identify areas of professional development.

### **GHMB997 Major Project**

Autumn Wollongong On Campus

Annual Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is a combined program of research and coursework leading to the completion of a major project. Students will be expected to work closely with a supervisor on a project where a common interest exists.

### **GHMB998 Minor Thesis**

Autumn Wollongong On Campus

Annual Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This is a major component of a combined coursework/thesis program in the Masters of Nursing undertaken by candidates enrolled in the School of Nursing, Midwifery and Indigenous Health. A thesis must be submitted and assessed according to the Course Rules for Masters' Candidates. Thesis work is only commenced with the approval from the coordinator of the subject and the Head of the School. Students will be required to present a seminar on their chosen thesis topic prior to completion of the thesis.

### **GHMC908 Professional Issues in Psychology**

Autumn Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Focuses on ethical and legal issues relevant to clinical psychologists. Other areas of professional practice covered include: communication, the NSW Mental Health Act, Supervision, quality assurance and burn-out and self care.

### **GHMC914 Thesis**

Annual Wollongong On Campus

**Credit Points:** 48

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Thesis for the Doctor of Psychology (Clinical). This subject, in conjunction with Research Project A and Research Project C, comprises the research component of the DPsych degree.

### **GHMC919 Clinical Applications of Health Psychology**

Autumn Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines models of intervention for individual, groups and larger populations. The origins of stress, coping, issues with pain management and disability as well as an understanding of the

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Arts	conceptual models of behaviour change in health related areas are examined within a health and well being focus as well as from an illness perspective. Focus will be on applications where a clinical psychologist in practice may be active, including pain, cancer, cardiovascular disease and living with chronic and terminal illness, drug and alcohol problems and individual and population interventions.
Commerce	<b>GHMC920 Psychotherapy of Personality Disorders</b> Autumn Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject focuses on advanced training in the treatment of personality disorders and complex cases. Classification, aetiology, and treatment models and methods will be addressed through workshops and clinical presentations. Satisfactory completion of a 250-hour supervised practicum training with clients in personality disorders or equivalent area is required as part of this subject. The primary focus will be on conducting evidence-based practice for enhancing a client's interpersonal effectiveness, emotion regulation, and distress tolerance. Training will emphasise developing skills to deal with therapeutic stalemates, comorbid psychopathology, self-harm behaviours, acute crises, and building effective therapy teams.
Creative Arts	
Education	
Engineering	<b>GHMC921 Clinical Supervision and Practice</b> Spring Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject focuses on knowledge and skills required of an advanced professional. The clinical supervision component will cover theories and models of clinical supervision, and the rationale, procedures, and best-practice guidelines regarding formulating supervision plans, assessing supervisee performance and evaluating supervision programs. The advanced practice unit is designed for participants to understand, examine and critically evaluate professional and nonprofessional management of a chronic psychological disorder. In addition to didactic teaching, skills training methods (e.g., role-play, videotapes) will be used. This subject will also include a 250-hour clinical practicum within an advanced professional or clinical supervision area.
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	<b>GHMC931 Clinical Neuropsychology</b> Spring Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject aims to introduce students to neuroanatomy and theories of neuropsychological assessment and approaches to rehabilitation. The subject will deal with: basic brain anatomy; principles of neuropsychological assessment; administration and interpretation of neuropsychological tests; neuropsychological report writing; neuropsychological disorders.
Law	
Science	

<b>GHMC932 Sociocultural Aspects of Applied Psychology</b> Spring Wollongong On Campus Autumn Wollongong On Campus Annual Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject deals with the sociocultural nature of, and the various sociocultural influences on, psychological theory and practice. This includes sociocultural influences on psychologists and their values, and the sociocultural factors that affect concepts of the person, and which shape theories and modes of psychological intervention. The subject also deals with the impact of sociocultural factors upon the expectations, attitudes and values of both psychologists and their clients in psychological interventions.
<b>GHMC933 Professional Workshop Series A</b> Autumn Wollongong On Campus Annual Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject aims to orient students to a wide variety of approaches and skills pertinent to specialised areas in professional psychology, and to develop skills in one or more designated areas. The subject includes a number of workshop sessions relevant to the practice of professional psychology and conducted by qualified persons from both within the university and from external agencies who have expertise in an area of professional practice.
<b>GHMC934 Advanced Professional Workshop</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject aims to orient students to a wide variety of approaches and skills pertinent to specialised areas in professional psychology, and to develop skills in one or more designated areas. The subject includes a number of workshop sessions relevant to the practice of professional psychology and conducted by qualified persons from both within the University and from external agencies who have expertise in an area of professional practice.
<b>GHMC938 Practicum 1A</b> Annual Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The lecture/demonstration sessions are intended to prepare students for client contact under supervision. The practicum is composed of 150 hours of supervised case-work from the Northfields/other specified clinics, and should include adult and child case-work. The student will be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback.

### GHMC939 Introduction to Cognitive Behavioural Therapy

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject aims to provide students with an understanding of the theoretical principles underlying cognitive behavioural therapy (CBT), the theoretical rationale for cognitive-behavioural techniques, an overview of outcome research on and the practical applications of CBT in clinical and non-clinical settings. Preliminary skills with regard to conducting behavioural assessments, relaxation and systematic-desensitisation therapies will be demonstrated.

### GHMC942 Practicum 1B

Spring Wollongong On Campus

Summer 2006/Autumn 2007 Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The practicum is composed of 300 hours of supervised case-work from the Northfields Clinic and/or an external agency. The student will be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult services, however when considered together with GHMC943 and GHMC944, exposure to a wide range of clinical/applied contexts will be required.

### GHMC943 Practicum 2A

Spring Wollongong On Campus

Summer 2006/Autumn 2007 Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** GHMC938 Practicum 1A

**Co-requisites:** None

**Subject Description:** The practicum is composed of 300 hours of case-work from the Northfields Clinic and/or external agencies providing psychological services. The student might be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult services, however when considered together with GHMC942 and GHMC944, exposure to a wide range of clinical/applied contexts (specified elsewhere) will be required.

### GHMC944 Practicum 2B

Spring Wollongong On Campus

Summer 2006/Autumn 2007 Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The practicum is composed of 250 hours of case-work from Northfields clinic and/or external agencies. The student might be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult

services, however when considered together with GHMC938, and GHMC943, exposure to a wide range of clinical/applied contexts will be required.

### GHMC946 Research Project A

Spring Wollongong On Campus

Autumn Wollongong On Campus

Summer 2006/Autumn 2007 Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Research Project A aims to equip students with a wide variety of research skills required for professional psychology. The content will begin by covering the conceptual bases, aims, context, sampling, designs, methods of data collection, followed by discussion of principles and procedures governing selection and implementation of data analyses. Ethical issues in conducting research are reviewed. Students will develop skills to evaluate research critically and interpret data. Students will develop and conduct a research project in a relevant area of professional psychology and submit a comprehensive literature review. Students completing the MPpsych program will also complete Research Project B and a project report in the format of a journal article.

### GHMC947 Research Project B

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 16

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Research Project B in combination with Research Project A, aims to equip MPpsych (Clinical) students with a wide variety of research skills required for professional psychology. The content will begin by covering the conceptual bases, aims, context, sampling, designs, methods of data collection, followed by discussion of principles and procedures governing selection and implementation of data analyses. Ethical issues in conducting research are reviewed. Students will develop skills to evaluate research critically and interpret data. Students will develop and conduct a research project in a relevant area of professional psychology and submit a comprehensive literature review and a project report in the form of a journal article.

### GHMC951 Child and Adult Assessment and Psychopathology

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This course focuses on equipping clinical psychology students with theoretical knowledge and practical skills relevant to the assessment and formulation of mental disorders in adults and children. This is achieved through a combination of lectures, workshop activities, independent study, and 50 hours of supervised clinical practice at Northfields Clinic. The clinical-theoretical part of the course will describe models of human cognitive processes such as memory and higher intellectual functioning and the ways in which these functions may become disturbed in people with mental disorders. The assessment and diagnosis components of the course will cover the main diagnostic classificatory

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systems and psychometric assessment methods relevant to understanding adults and children with psychiatric disorders characterised primarily by depression and anxiety.

### **GHMC952 Principles of Psychotherapy**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with a set of research-based interventions, strategies and skills for conducting psychological therapy for children and adults. The subject examines the microskills of interviewing, goal setting, problem solving, monitoring and reviewing, relationship enhancement, and selection of appropriate interventions depending on client need. Satisfactory completion of 100 hours of practical training with clients is required. Training methods include video feedback and direct observation of clinical skills. The subject provides the principles of empirically-based psychotherapy with children and adults in individual, family and group therapy formats.

### **GHMC953 Neuropsychology & Neuropsychiatric Disorders**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will equip students with knowledge of the theoretical and practical issues that impinge on the assessment of children and adults who present with psychotic disorders, severe behavioural problems, and cognitive impairments stemming from primary neurological pathology. This will be achieved through a combination of lectures, workshop activities, independent study, and 150 hours of supervised clinical practice at Northfields Clinic. The subject content related to clinical assessment will include: the main diagnostic and classificatory systems; principles of psychometric assessment; the application of specific tests; and the development of clinical formulations that can be used in treatment. Topics relating to psychopathological theory will include basic neuroanatomy and neuropathology and theoretical and clinical models of psychotic and behavioural disorders in children and adults.

### **GHMC954 Cognitive Behavioural Therapies**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject aims to provide students with additional knowledge of the principles, procedures, applications, and research associated with psychotherapy for children and adults for a wide range of psychological disorders. Students will also obtain practical skills training in the conduct of therapy. The focus will be on cognitive behavioural therapies. Apart from lectures, training methods will include demonstration of therapy, role-play sessions, use of videotapes, and a minimum of 100 hours of clinical practicum within the Northfields Clinic or other equivalent agency.

### **GHMC955 Health and Wellbeing**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines health psychology, behavioural medicine, psychopharmacology and rehabilitation models of intervention. Stress and coping are examined within individuals, groups and populations. Current evidence based practice of psychopharmacology is also considered. Satisfactory completion of 300 hours of practical training with clients is required as part of this subject. Focus will be on applications where a clinical psychologist in practice may be active, including treating substance dependence, chronic pain, cancer, cardiovascular disease, HIV/AIDS, chronic and terminal illnesses, implementing behavioural interventions for physical activity and dietary change, positive psychology techniques and lifeskills coaching.

### **GHMC956 Special Groups and Methods**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** While many of the skills obtained in clinical training are ubiquitous, students need to consider the unique needs and considerations of special needs groups and take this into account in their psychological practice. This subject introduces the student to the application of psychological principles to special needs groups and in special situations. In particular, the subject will address needs as they relate to working with older persons, people with developmental disabilities, working in forensic environments and relevant sociocultural considerations. Additional ethical and professional issues that pertain to these groups and situations will be addressed. Successful completion of this subject will also include 300 practicum hours in a relevant clinical placement, supported by appropriate clinical supervision.

### **GHMC967 Models of the Human Brain and Their Applications**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The biophysics of human brain function is the frame of reference for all subject content. It explores a broad range of approaches, including evolutionary and anatomical models of the brain, models of electrical and metabolic brain function, psychological models of the brain, artificial neural networks and artificial intelligence models, the mind/body problem, psychoanalytic and psychotherapy models, brain imaging technologies, application of brain models to psychology, medicine, artificial neural networks and artificial intelligence, and human-computer interactions.

### **GHMC969 Advanced Cognitive Behavioural Therapy**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject aims to provide students with theoretical knowledge underpinning, and skills training in the practice of cognitive behavioural therapy. Cognitive behavioural interventions for a large number of psychological disorders in adults will be covered including anxiety, mood, eating, somatoform, substance abuse, and chronic psychiatric disorders. The principles underlying intervention choice, procedural details associated with conduction of therapy and outcome research will be covered. Common pharmacological agents used to treat the disorders will also be briefly discussed. In addition to lectures that will address objectives governing knowledge acquisition, methods such as therapy demonstrations, video review and role play will be used to enhance skills-building and generalisation.

### **GHMC971 Assessment and Psychopathology B**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** GHMC970 Assessment and Psychopathology A

**Co-requisites:** None

**Subject Description:** The subject aims to provide students with an overview of descriptive psychopathology. Issues surrounding models of abnormal behaviour and the classification of mental disorders will be examined. The signs and symptoms associated with severe disorders and the assessment of these conditions by clinical interview and by psychological tests will be covered. The subject also covers the theoretical rationale and procedures for administration, scoring and interpretation of psychological tests.

### **GHMC978 Child and Adolescent Psychology**

Autumn Wollongong On Campus

Autumn Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject focuses on a range of childhood and adolescent concerns or problem behaviours within a broad developmental framework. The subject will provide students with a general introduction to the specific problems and needs of children and parents who present to psychologists in clinical practice. Individual and family based assessment and intervention approaches will be examined for problems such as mental retardation, conduct disorders, attention deficit hyperactive disorders, learning problems, anxiety and depressive disorders, and early onset psychosis.

### **GHMC979 Major Research Project**

Annual Wollongong On Campus

Annual Wollongong Flexible

**Credit Points:** 18

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students complete an empirical study on a research topic chosen from given areas of staff expertise. Projects may be conducted in small groups, however, write-ups will be completed and assessed individually. Weekly research seminars consist of discussion of the research process, selecting a topic, and enhancing writing and oral presentation skills.

### **GHMC981 Research Project C**

Spring Wollongong On Campus

**Credit Points:** 16

**Pre-requisites:** GHMC946 Research Project A

**Co-requisites:** None

**Subject Description:** Research Project C in combination with Research Project A, aims to equip students with a wide variety of research skills required for professional psychology. The subject covers ethical issues in research, the importance of conceptual and theoretical foundations in research, how to critically evaluate research, establishing aims, sampling, design, methods of data collection, principles and procedures governing selection and implementation of data analyses. Students will receive assistance in data entry, screening, and analysis using SPSS. Students will learn the stylistic requirements of scientific writing for research publication. Research Project A, C and the Major Thesis comprise the research component of the Doctor of Psychology (Clinical) degree.

### **GHMC982 Research Project D**

Annual Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject focuses on advancement of research skills particularly within the areas of data analyses and thesis writing. The candidate will be required to attend regular sessions with the research supervisor. In certain cases, attendance at specified research lectures, seminars and other workshops might be required. The project culminates in the submission of a research thesis.

### **GHMC983 Research Project E**

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject focuses on research skills appropriate for practising professionals, including setting up systems for data collection and management in agencies, analyses of clinical data, and reporting of results. If data collection is involved, this will be a minor component. In certain cases, attendance at specified research seminars and workshops might be required. The project will culminate in a) a research proposal describing research aims, procedures for collection, management and analyses of routinely collected data, or b) analyses of archival data and preparation of a manuscript for submission to a scientific journal. Occasionally the report may also take the form of a comprehensive review of literature on a clinical topic.

### **GHMC984 Social Psychology and Health**

Spring Wollongong On Campus

Spring Wollongong Flexible

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject addresses key theoretical and empirical issues in the area of Social Psychology and explains their implications for health behaviours. The focus is on the joint effects of internal and external processes in the causation and maintenance of human behaviours. Emphasis is placed

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Arts	on elaborating social psychological models of health behaviours, the roles of attitudes, values and beliefs in shaping different behaviours and the effects of conformity, compliance and life events on behaviour. A range of psychological and health principles will be examined within the context of formulating treatment and evaluation proposals or prevention programs designed to change social behaviours in relation to health issues, such as stress and coping strategies, drug and alcohol abuse, sexual behaviours, exercise and nutrition, and aged care. The applicability of major research findings across cultures will also be addressed.			developmental psychology to consider the way theories of human behaviour help our understanding of psychopathology. Students will be expected to develop a critical and analytical understanding of the conceptual frameworks and assumptions of a number of major schools of abnormal psychology. The etiology and maintenance of clinical disorders will be examined from a variety of theoretical and research perspectives.		
Commerce				<b>GHMC990 Advanced Clinical Issues A</b> Spring Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject refers to an in-depth coverage of any specific topic of assessment or therapy determined by the Clinical Programs Director to be of relevance for the student's unique set of circumstances. The topic can relate to a specific disorder or a specific assessment or therapeutic intervention. Coverage will include a intensive review of current literature including current controversies, a critical evaluation of theoretical bases and practical applications. Teaching and assessment methods will depend on the topic chosen.		
Creative Arts	<b>GHMC985 Principles and Practices of Psychological Assessment</b> Autumn Wollongong On Campus Autumn Wollongong Flexible <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The aim of this subject is to examine the principles underpinning psychological assessment and introduce students to the practices of psychological assessment. The subject is designed to integrate learning in previous years including theories of personality, intelligence combined with statistical theory and then examine how these issues are used in practice. Criteria to understand and evaluate psychological tests will be used as a common theme throughout the subject, including examination of their construct validity. The general ethical issues of psychological assessment will be compared to the specific Australian Psychological Society guidelines for psychological assessment. After examination of the theoretical principles, students will have the opportunity to administer, score and interpret commonly used assessment tools used to assess general intelligence, emotional intelligence, personality and vocational preference and psychological well-being.			<b>GHMC991 Advanced Practicum A</b> Autumn Wollongong On Campus Summer 2006/Autumn 2007 Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The practicum is composed of at least 200 hours of supervised casework from the Northfields Clinic or other specified agencies that provide psychological services. Casework will include assessment and treatment of difficult psychological problems. The student will be required to attend group and individual supervision sessions.		
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Engineering						
Graduate School of Business						
Health & Behavioural Sciences	<b>GHMC988 Contemporary Issues for Professional and Research Psychologists</b> Autumn Wollongong On Campus Autumn Wollongong Flexible <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The first part of this subject draws together key issues in ethics, research and professional practices in psychology. Ethics theory will be addressed and ethical and legal issues will be explored in research, therapeutic and professional settings. The second part deals with contemporary issues in experimental psychology including, for instance, memory, reading disorders, emotional intelligence, etc.			<b>GHMC992 Advanced Practicum B</b> Spring Wollongong On Campus Summer 2006/Autumn 2007 Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The practicum is composed of at least 200 hours of supervised casework from the Northfields Clinic or other specified agencies that provide psychological services. Casework will include assessment and treatment of difficult psychological problems. The student will be required to attend group and individual supervision sessions.		
Informatics						
Law	<b>GHMC989 Advanced Abnormal Psychology</b> Spring Wollongong On Campus Spring Wollongong Flexible <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject builds upon previous study in core areas of abnormal psychology, with contributions from personality, learning, and			<b>GHMC993 Advanced Training in Personality Disorders A</b> Autumn Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject focuses on advanced training in the treatment of personality disorders. Classification, etiology, clinical features, and treatment models and methods will be addressed through workshops, clinical presentations, supervision and 20 hours of practicum placement. Part A of this series will focus on the basics of working with people with personality		
Science						

disorders, with emphasis on team approach, setting goals, problem solving, and strategies for dealing with crises. The clinical emphasis will be on conducting a skills based approach for enhancing a client's interpersonal effectiveness, emotion regulation, and distress tolerance based on principles of Dialectical Behaviour Therapy.

#### **GHMC994 Advanced Training in Personality Disorders B**

Autumn Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject focuses on advanced training in the treatment of personality disorders (PD). Clinical features and treatment models and methods will be addressed through workshops, clinical presentations, supervision and 30 hours of practicum placement. Part B of this series will focus on advanced techniques for dealing with more complex difficulties that can arise within treatment. Emphasis will be on developing skills to deal with therapeutic stalemates, comorbid psychopathology, self-harm behaviours, hospitalisations, adolescent clients and termination issues. Consideration will be given to dealing with therapist responses to working with people with PD and building effective supervision and case management teams.

#### **GHMC995 Advanced Training - Clinical Supervision A**

Spring Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject covers theories and models of clinical supervision, discusses rationale and procedures for setting up programs for clinical supervision, and analyses theoretical and practical issues surrounding the various components including objectives, methods, assessment and evaluation of clinical supervision. Ethical issues and common difficulties arising within supervision are also addressed. The trainee will be required to record videos of therapy sessions, provide supervisory comments on taped therapy sessions, and formulate supervision plans for psychologists in training. In addition to lectures and seminars, skills training methods including demonstration, video tapes and role play are used.

#### **GHMC996 Advanced Training - Clinical Supervision B**

Spring Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject focuses on the supervised practice of clinical supervision. The student will be required to formulate supervision plans and supervise trainee psychologists, so an investment of 40-60 hours in supervision work should be expected. The trainee supervisor will also receive supervision during this period. The subject will also cover a critical analysis of theoretical and practical issues surrounding the various components, including objectives, methods, assessment and evaluation of clinical supervision. In addition to lectures and seminars, skills training methods including demonstration, video tape feedback, and role play are used.

#### **GHMD903 Public Health Communication and Data Skills**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** Students who have already demonstrated acquisition of these communication and data skills.  
**Subject Description:** This subject introduces students to those communication and data skills which are considered essential for public health practice and which underpin other subjects in the MPH. These include the ability to effectively find and critically analyse public health data and to communicate public health knowledge in a variety of formats. The subject is designed in three parts to develop the students' literacy skills in concurrence with the literacy demands of other subjects: Part 1, Introduction to critical analysis; Part 2, Accessing and evaluating information; and Part 3, Structuring arguments and communicating information.

#### **GHMD904 Epidemiology**

Spring Wollongong On Campus

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** GHMD983 - Statistics in Health Research. Students who have already completed GHMD983 should apply for a waiver of the co-requisite.  
**Exclusions:** Not to count for credit with POP204

**Subject Description:** This subject addresses principles and methods of epidemiological investigation including analytic and experimental epidemiology. Topics to be covered are: measurement in epidemiology, screening, design of ecological studies, surveys, case control and cohort studies, clinical trial design, analysis of studies, critical appraisal of the literature, biological inference and causality. These methodological issues will be applied to a wide range of content areas such as occupation, cancer, health services and infectious diseases.

#### **GHMD905 Social Foundations of Public Health**

Autumn Wollongong On Campus

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Introduces students to theories and concepts from the social sciences necessary for the understanding and analysis of public health issues. Examines socio-economic and environmental influences on health, and health inequalities. Explores development, gender, citizenship, culture and human rights. Critiques the concepts of community and social capital.

#### **GHMD906 Quality Management For Health Services**

Autumn Wollongong On Campus

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Develops knowledge and skills

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Arts	in the application of contemporary quality management theories and concepts. Examines the forces driving change in the organisation and management of health care organisations and the implications for health care managers. Traditional approaches are contrasted with contemporary approaches. Quality management is considered an essential component of good management practice. It is still developing as an 'accepted' management concept for implementation in the health service industry.			<p><b>Co-requisites:</b> None</p> <p>Exclusions: Not to count for credit with POP202</p> <p><b>Subject Description:</b> This subject introduces students to the concept of health promotion and how it has been applied in particular settings – health services, worksites, schools and communities. Theoretical perspectives of behaviour change and public policy, as they are applied within the field of health promotion, will be critically reviewed. Subject involves on-line student discussions.</p>
Commerce	<p><b>GHMD907 Independent Study in Public Health</b></p> <p>Autumn Wollongong On Campus Autumn Wollongong Distance Spring Wollongong Distance Spring Wollongong On Campus</p> <p><b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> The aim of this subject is to provide students with the opportunity to explore an issue or problem of particular interest to public health with the assistance of a supervisor. All students will critically analyse the relevant literature and then either write a journal article or, for those undertaking research degrees, a research proposal. In some cases other formats, such as a report to a health organisation or community group, will be allowed for the final assignment with the permission of the supervisor.</p>			<p><b>GHMD913 Alcohol and other drug studies</b></p> <p>Autumn Wollongong On Campus Autumn Wollongong Distance</p> <p><b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject will provide an understanding of the pharmacological, psychological and sociological basis of alcohol and other drug (AOD) use and dependence. It will focus on government, intersectoral and community approaches to inform, minimise and treat the harm caused by the use of alcohol and other drugs. Contemporary issues, perspectives and approaches, which impact on both national and global policies, will be explored.</p>
Creative Arts				
Education				
Engineering	<p><b>GHMD908 Health Services Planning and Evaluation</b></p> <p>Spring Wollongong On Campus Spring Wollongong Distance</p> <p><b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject covers the theory and practice of health planning. Topics include: Health needs assessment, planning approaches, strategy analysis and formulation, setting goals and objectives, performance measurement and evaluation. Students will develop skills in service planning for population/public health programs and institutional services.</p>			<p><b>GHMD924 Health Information Systems</b></p> <p>Autumn Wollongong On Campus Autumn Wollongong Distance</p> <p><b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject will introduce information systems in health and health informatics to students. Topics will include: clinical systems development, systems management, electronic health record, clinical decision support, classification and coding, privacy and confidentiality and IT risk assessment. Current and future computer applications in health (e.g. PAS, order management, tele health) will be discussed.</p>
Graduate School of Business				
Health & Behavioural Sciences				<p><b>GHMD925 Aboriginal Health Issues</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None</p> <p>Exclusions: Not to count for credit with POP325</p> <p><b>Subject Description:</b> Examines the health status of Aboriginal Australians from a historical perspective, using relevant insights from the experiences of other indigenous populations. Explores the causes of Aboriginal health problems, the political and economic context of health, the role of culture, and access to health services. Critiques current strategies to improve health.</p>
Informatics	<p><b>GHMD909 Comparative Health Systems: Policies and Politics</b></p> <p>Spring Wollongong On Campus Spring Wollongong Distance</p> <p><b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject examines how ideologies and political processes influence health policy development and health service delivery. The impact of broad socio-economic forces on health status and health policy development are emphasised. The subject is designed to assist individuals to develop analytical and strategic skills.</p>			<p><b>GHMD928 Introduction to Infectious Disease - HIV/AIDS &amp; Hepatitis</b></p> <p>Spring Sydney On Campus Autumn Sydney On Campus</p> <p><b>Credit Points:</b> 6 <b>Pre-requisites:</b> Enrolment in Graduate Certificate in HIV/AIDS or graduate Public Health programs <b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> The subject provides an overview of two key infectious diseases – HIV/AIDS and Hepatitis. The materials cover three common</p>
Law				
Science	<p><b>GHMD912 Health Promotion</b></p> <p>Autumn Wollongong On Campus Autumn Wollongong Distance</p> <p><b>Credit Points:</b> 6 <b>Pre-requisites:</b> None</p>			

issues of pathophysiology and epidemiology of disease, prevention of transmission and service provision. Students undertake study within 2 short courses provided by the Albion Street Clinic, together with set assessment tasks. Module A: Introduction to HIV/AIDS provides an overview of current HIV/AIDS information for health professionals working in a clinical setting. Module B: Hepatitis for Health Care Workers provides an overview of current information on hepatitis A, hepatitis B and hepatitis C (HAV, HBV and HCV).

### GHMD930 Mass Media and Population Health

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This unit examines the effects of media on population health - from the negative impact of advertisements for cigarettes, alcohol and junk food to the (hopefully) positive impact of public health campaigns. The subject covers commercial and social advertising, program and editorial content, media advocacy, and social marketing; and presents case studies of current media coverage and advertising campaigns to demonstrate the effects of media on health and social behaviour. Students will develop skills in media analysis, the development of communication campaigns, and dealing with the media.

### GHMD936 Public Health Nutrition

Autumn Wollongong On Campus

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count for credit with GHMA930 or BMS310 or SFC902

**Subject Description:** This subject will introduce the student to the food and nutrition system in Australia. Key areas of public health nutrition discussed include food and nutrition surveillance, food policy, programme planning and nutrition promotion. Subject involves on-line student discussions.

### GHMD981 Reproductive Health Care in developing countries

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students will examine social, cultural and behavioural factors that impact on women and children in developing countries. They will assess evidence based practices that prevent and address conditions leading to Maternal and Neonatal mortality and morbidity including sexual health. Epidemiology of and prevention of sexually transmitted illness (STI) including HIV/AIDS in women and children and issues related to mother to child HIV transmission will be discussed. Integrating of service provision for Reproductive Health programs in resource poor settings will be covered.

### GHMD983 Statistics in Health Research

Spring Wollongong On Campus

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Introduces basic statistical concepts and methods. Topics covered: collecting data, designing statistical studies, principles of data presentation; exploratory data analysis, probability and statistical models emphasising binomial and normal distributions; categorical data, contingency tables and the Chi-squared distribution; sampling, sample means and the central limit theorem; inference - point estimation, confidence intervals, testing hypotheses; inference about single parameters; comparing means and proportions, analysis of variance, demography.

### GHMD984 Health Research Methodology

Spring Wollongong On Campus

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** GHMD983 Statistics in Health Research, or GHMB950 Reflective Practice, or equivalent.

Students who have already completed GHMD983 or GHMB950 should apply for a waiver of the co-requisite.

**Subject Description:** This subject introduces students to health research methodology. Topics include formulating a research question, conducting a literature review and writing a research proposal. Students will acquire skills in interviewing, survey design, and appropriate methods of qualitative and quantitative analysis. Ethical issues such as informed consent and confidentiality will be addressed.

### GHMD985 Public Health Investigation

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** GHMD904 Epidemiology

**Co-requisites:** None

**Subject Description:** The subject consists of a self directed computer based case study to be conducted in teams of 2 students. The case study concerns an environmental contamination and the methods to investigate the situation and its health effects. The students are placed in the situation of a public health official with a limited financial budget and many options for research. Primary investigation, risk evaluation, potential study designs and actual study analysis will be covered. Presenting the results to a critical audience will be simulated in class presentations.

### GHMD986 Environmental Health

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject covers various case studies in environmental health such as air pollution, soil contamination, climate change, water availability and contamination, waste problems and urbanisation. The lectures present the theories and internationally relevant cases. The students will present their own case studies in class and critique another in writing.

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Arts	<b>GHMD995 Minor Project</b>		
	Autumn	Wollongong	On Campus
	Spring	Wollongong	On Campus
Commerce	<b>Credit Points:</b> 12		
	<b>Pre-requisites:</b> 24 cp at graduate level		
	<b>Co-requisites:</b> None		
Creative Arts	<b>Subject Description:</b> The aim of this subject is to allow students to conduct a small public health research project under supervision. The type of project will be decided in conjunction with the project supervisor; options include an empirical study, a critical review of existing materials such as a meta-analysis, an evaluation of a service or program, or the development and testing of an educational program. All students will write a brief project proposal, and either a final report, or a journal article and separate literature review. In some cases other formats, such as a report to a health organisation or community group, may be substituted for the journal article with the permission of the supervisor. Approval from the University Human Research Ethics Committee will be required if the project involves human participants.		
	<b>GHMD997 Major Project</b>		
	Annual	Wollongong	On Campus
Education	Autumn	Wollongong	On Campus
	Spring	Wollongong	On Campus
	<b>Credit Points:</b> 24		
Engineering	<b>Pre-requisites:</b> GHMD984 Health Research Methodology		
	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> The aim of this subject is to allow students to design and conduct a small public health research project under supervision. The type of project will be decided in conjunction with the project supervisor; options include an empirical study, a critical review of existing materials such as a meta-analysis, an evaluation of a service or program, or the development and testing of an educational program. All students will write a project proposal, critically analyse the relevant literature, and write a final report. Students will also present their work to a School of Health Sciences seminar. Approval from the University Human Research Ethics Committee will be required if the project involves human participants.		
Graduate School of Business	<b>PSYC966 Professional Practice Group Supervision A</b>		
Health & Behavioural Sciences	Annual	Wollongong	On Campus
	<b>Credit Points:</b> 8		
	<b>Pre-requisites:</b> 4 year degree in Psychology		
Informatics	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> This subject will assist students to fulfil NSW Psychologists Registration Board requirements for Supervision. It consists of meetings of up to 5 students and a clinical supervisor to discuss applications of psychological skills to practice. While this subject is independent from GHMC967 (Professional Practice Workshops A), students enrolled in both subjects will have an opportunity to use the group supervision to further develop skills learned in workshops.		
	<b>PSYC967 Professional Practice Workshop A</b>		
Law	Annual	Wollongong	On Campus
	<b>Credit Points:</b> 8		
	<b>Pre-requisites:</b> 4th year in Psychology		
Science	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> This subject will assist students		

to fulfil NSW Psychologists Registration Board requirements for Approved Workshops and Seminars. It consists of 8 workshops on four board required certificate subjects: Introduction to Psychological Practice; Ethical, Legal and Professional Matters; Psychological Testing; and Interviewing, Counselling and Consulting. Workshops will be delivered by specialist professionals and/or academics with specific skills and knowledge in the identified areas, will be skills based and will be delivered in block workshop formats. While this subject is independent from PSYC966 (Professional Practice Group Supervision A), students enrolled in both subjects will have an opportunity to use the group supervision to further develop workshop skills.

### PSYC968 Professional Practice Group Supervision B

Annual Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** 4 year degree in Psychology

**Co-requisites:** None

**Subject Description:** This subject will assist students to fulfil NSW Psychologists Registration Board requirements for Supervision. It consists of weekly meetings of up to 5 students and a clinical supervisor to discuss applications of psychological skills to practice. While this subject is independent from GHMC969 (Professional Practice Workshops B), students enrolled in both subjects will have an opportunity to use the group supervision to further develop skills learned in workshops. This subject will build on the skills and experiences of Professional Practice Group Supervision A.

### PSYC969 Professional Practice Workshop B

Annual Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** 4 year degree in Psychology

**Co-requisites:** None

**Subject Description:** This subject will assist students to fulfil NSW Psychologists Registration Board requirements for Approved Workshops and Seminars. It consists of 8 workshops on four board required certificate subjects: Intervention Strategies; Record Keeping; Development and Maintenance of Psychological Skills; and Data Collection and Evaluation. Workshops will be delivered by specialist professionals and/or academics with specific skills and knowledge in the identified areas, will be skills based and will be delivered in block workshop formats. While this subject is independent from GHMC968 (Professional Practice Group Supervision B), students enrolled in both subjects will have an opportunity to use the group supervision to further develop workshop skills.

### SFC 901 Contemporary Issues in Food and Nutrition

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** As per course entry requirements

**Co-requisites:** As per course entry requirements

**Subject Description:** This subject introduces students to ideas on the causes, nature, and effect of a number of current food and nutrition issues. This includes but will be not limited to, the alteration of nutrient composition in the development of foods to meet specific needs and the food regulatory environment including consideration of labelling requirements that must be addressed.

Examples will be drawn from Australia and overseas. Students will critically discuss the role of influential factors, including interaction of biological, lifestyle and sociocultural aspects of human behaviour; changes in the nature of the food system; role of government and professional groups; and consumer interests.

### **SFC 902 Food Regulation and Policy in Australia**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** As per course entry requirements

**Co-requisites:** As per course entry requirements

**Subject Description:** This subject describes and analyses aspects of the Australian food regulatory system and its relationship with the production and promotion of foods. Issues are discussed within 3 modules: food regulatory system and the legal framework; food policy: development, organisational structures and analysis; and food and nutrition system – examples of food regulation and policy issues.

### **SFC 903 Nutrition Research**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject introduces students to the critical interpretation of research findings in nutrition and to the evaluation of primary and other source material as a foundation for evidence based nutrition. It will provide a series of research edge seminars based on activities of the Smart Foods Centre and collaborators. This will initially focus on identification, development and scientific evaluation of key nutrients in foods optimising carbohydrate and fat balance in the diet, and consumer evaluation of nutrients and foods. Students will complete a critique of current research and report on learning outcomes as they relate to their work environment.

### **SFC 904 Nutrition and Food Innovation**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject introduces students to the use of technologies which underpin the development of the contemporary Australian food supply. These include but are not limited to genetic modification and its applications in food production, the impact of feeding programs on livestock, issues concerning trends to home replacement or ready to eat meals, use of risk assessment frameworks and an overall critique of biotechnology in food production.

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# Faculty of Informatics

## Courses Offered

### School of Electrical, Computer and Telecommunications Engineering

Doctor of Philosophy  
 Master of Engineering - Research  
 Master of Engineering Practice (Mechatronics)  
 Master of Engineering Studies  
 Master of Engineering Studies (Double major)  
 Master of Internet Technology  
 Graduate Diploma in Internet Technology

### School of Information Technology and Computer Science

Doctor of Philosophy  
 Master of Information and Communication Technology – Research  
 Master of Computer Science - Research  
 Master of Information and Communication Technology Advanced  
 Master of Computer Science Advanced  
 Master of Computer Science  
 Master of Computer Studies  
 Master of Digital Multimedia  
 Master of Electronic Commerce  
 Master of Health Informatics  
 Master of Health Leadership and Management  
 Master of Industry-based Information Technology  
 Master of Information and Communication Technology  
 Master of Information Technology Management  
 Graduate Certificate in Health Informatics  
 Graduate Certificate in Industry-based Information Technology  
 Graduate Certificate in Information and Communication Technology

### School of Mathematics and Applied Statistics

Doctor of Philosophy  
 Master of Science - Research (Mathematics)  
 Master of Science - Research (Statistics)  
 Master of Mathematics  
 Master of Statistics  
 Master of Financial Mathematics  
 Graduate Diploma in Statistics

For tuition fee information please see the following:

Domestic - [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)  
 International - [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).

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# School of Electrical, Computer and Telecommunications Engineering

## Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Informatics
Duration:	3 years (6 full-time sessions) or part-time equivalent
Total Credit Points:	48cp per year
Delivery Mode:	Face-to-face or combination of Face-to-face/Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	201
CRICOS Code:	001244E

### Overview

Doctor of Philosophy (PhD) candidates undertake in-depth research in order to make an original and significant contribution to the body of knowledge in their chosen studies. This qualification can lead to or enhance an academic career and is highly regarded by private and public sector employers.

### Entry Requirements / Assumed Knowledge

A four-year Honours Bachelor of Engineering degree (minimum Class II, Division 2 or higher); or a Master of Engineering Studies (at the required level); or a Master of Engineering – Research, in one of the following areas: Computer, Electrical, Electronic or Telecommunications Engineering; or equivalent.

The School normally requires students to register initially for the Masters by Research program. Subject to satisfactory progress, including the presentation of a report and seminar, a student's candidature may be transferred to Doctor of Philosophy (PhD) after one year, without penalty.

### Course Requirements

This program is by 100% thesis. Students may be required to attend lectures in relevant topics from time to time throughout the program.

All new students enrolling in a research degree are expected to prepare and defend a research proposal early in their candidature. Normally, the degree will be completed in not less than four, and not more than eight, academic sessions of full-time study, or six to 16 sessions of part-time study.

### Current Research Areas

The following areas of research are available to candidates undertaking the degrees of Doctor of Philosophy or Master of Engineering – Research:

#### Intelligent Mechatronics: Automation

Advanced control systems  
Control networks  
Haptic rendering  
Machine tool design  
Precision position and speed control  
Robotics and sensors

Telerobotics  
Virtual manipulation

#### Intelligent Mechatronics: Applications

Arc welding control

Medical image processing  
Renewable energy sources  
Superconducting magnetic energy storage  
Virtual surgery

#### **Power: Quality and Reliability**

Conducted electromagnetic interference (EMI)  
Data mining  
Distribution system reliability  
Harmonic management  
Power electronics and drives  
Power quality monitoring and data analysis  
Power quality indices and reporting  
Standardisation  
Voltage fluctuations and flicker

#### **Telecommunications: Digital Signal Processing**

Adaptive filtering  
Blind signal processing  
Coding for error-prone channels  
Computational auditory scene analysis  
Data mining  
Filter banks and wavelets  
Image and video segmentation, compression and retrieval  
Internet access technologies (xDSL)  
Low-rate speech coding  
Multirate signal processing  
Wideband speech/audio coding  
3D Audio objects and environments

#### **Telecommunications: Network Services**

Internet and WWW services  
Internet telephony  
Multimedia databases  
Network games  
Video on demand  
Virtual reality

#### **Telecommunications: Photonics**

Bragg grating sensing system  
Fibre Bragg grating design and writing  
FBG devices for optical communication systems  
Optical fibre

#### **Telecommunications: Switched Networks**

Active networks  
Ad hoc multi-hop networking  
Closed loop control in packet networks  
Location aware networking  
Network dimensioning  
Network management  
Network traffic modelling and control  
Wireless internet protocols

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### Telecommunications: Wireless Communications

Code division multiple access systems  
Microwave propagation and channel modelling  
Mobile ad hoc networks  
Sequence design  
Smart antennas

Space-time coding  
Ultra wideband communications

Note: Not all areas are available for research at all levels, nor at all times.

## Master of Engineering - Research

Testamur Title of Degree:	Master of Engineering – Research
Abbreviation:	MEng - Res
Home Faculty:	Informatics
Duration:	1.5 years (3 full-time sessions) or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Supervised individual research and face-to-face classes
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1303
CRICOS Code:	042557D

### Overview

The aims of this program are to provide specialised research training for those preparing for careers in academia, government and industry; and to provide practising engineers with the means to increase their knowledge and upgrade their qualifications.

### Entry Requirements / Assumed Knowledge

This degree is primarily a research degree for those who have completed an Honours Bachelor degree at a standard of Class II, Division 2 or higher, or a Master of Engineering Studies degree with satisfactory completion of ECTE953 and a weighted average mark of 67.5% or higher, or equivalent, in one of the following areas: computer, electrical or telecommunications engineering, or a related area. If a candidate has a good academic record, entry from a Pass Bachelor degree in computer, electrical, telecommunications engineering, or a related area, is possible.

### Advanced Standing

Candidates with an Honours Bachelor degree at a standard of Class II, Division 2 or higher, or a Master of Engineering Studies degree with satisfactory completion of ECTE953 and a weighted average mark of 67.5% or higher in computer, electrical, or telecommunications engineering or related area, or equivalent, may be given exemption from all, or some, of the 24 credit points of coursework. This would be contingent on evidence of considerable research strength.

### Course Requirements

The degree is normally 72 credit points, consisting of a 48 credit point research thesis and 24 credit points of coursework. The program must be completed in a maximum time of two years full-time and requires satisfactory completion of the following:

- 24 credit points of coursework, consisting of 900-level ECTE subjects chosen from those listed under the Master of Engineering Studies and approved by the Head of the School of Electrical, Computer and Telecommunications Engineering, in consultation with the School Postgraduate Research Committee, to constitute a coherent introduction to the proposed area of research; and
  - Subject to students gaining a weighted average mark of 67.5% for the coursework, a 48 credit point thesis subject.
- Candidates who fail to meet the requisite standard for the coursework component will be required to transfer to the Master of Engineering Studies.

## Current Research Areas

Refer to Current Research Areas under the Doctor of Philosophy entry.

## Other Information

Subject to satisfactory progress and satisfactory performance in seminars, students may transfer to the Doctor of Philosophy (PhD) program prior to completion of the Master of Engineering – Research.

## Master of Engineering Practice (Mechatronics)

This course is offered jointly by the Faculty of Engineering and the School of Electrical, Computer and Telecommunications Engineering. Details of the Entry Requirements and Program of Study are contained in the Faculty of Engineering entry. Graduates interested in mechatronics who have an electrical, computer, electronic or related undergraduate degree, may also consider the Electrical Engineering Program, including the specialist mechatronics subjects within the Master of Engineering Studies.

## Master of Engineering Studies

Testamur Title of Degree:	Master of Engineering Studies (name of major)
Majors available	Computer Engineering, Electrical Engineering, Telecommunications Engineering
Abbreviation:	MEngStud
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	587
CRICOS Code:	012128G

## Overview

The objective of this program is to provide graduates with engineering skills at a level between the Bachelor and Masters by Research degree levels.

## Entry Requirements / Assumed Knowledge

A degree equivalent to an Australian four-year Bachelor of Engineering in Computer, Electrical, Electronics or Telecommunications Engineering.

## Course Requirements

The Master of Engineering Studies program provides the opportunity for students to undertake a major in Computer Engineering, Electrical Engineering or Telecommunications Engineering. The major would be recorded on the testamur. Students must complete 48 credit points, consisting of the common core (12 credit points), one major (24 credit points) and two electives (12 credit points).

ECTE953 Advanced Project (12 credit points and topic must be in area of the major being undertaken) is optional. Entry to this subject is restricted to those students who gain a weighted average mark of at least 72.5% for the full-time first session load or equivalent (i.e. four six credit point subjects, including ECTE906 Advanced Signals and Systems, ECTE955 Advanced Laboratory plus two six credit point subjects from the major). The course program is set out below

## Course Program

Subjects	Session	Credit Points
Note: Only a limited number of subjects will be offered in any one year.		
<b>CORE</b>		
ECTE906	Advanced Signals and Systems	Autumn/Spring 6
ECTE955	Advanced Laboratory	Autumn/Spring 6

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science



Arts	<b>Computer Engineering Major</b>			
	Students must select four subjects from the following list:			
	ECTE901	Multimedia Signal Processing	Autumn	6
Commerce	ECTE903	Image and Video Processing	Spring	6
	ECTE904	Adaptive Signal Processing	n/o 2007	6
	ECTE905	Speech and Audio Processing	n/o 2007	6
Creative Arts	ECTE931	Real-Time Computing	Autumn	6
	ECTE932	Computer Systems	Spring	6
	ECTE933	Embedded Systems	Autumn	6
Education	ECTE942	Computer Controlled Systems	Spring	6
	ECTE953	Advanced Project	Autumn/Spring	12
	ECTE970	Advanced Topics in Engineering	Autumn/Spring	6
Engineering	ECTE997	Web Technology and Applications	Autumn/Spring	6
	<b>Electrical Engineering Major</b>			
	Students must select four subjects from the following list:			
Graduate School of Business	ECTE902	Stochastic Signal Processing	n/o 2007	6
	ECTE912	Power Electronics and Drives	Autumn	6
	ECTE923	Power System Analysis	Autumn	6
Health & Behavioural Sciences	ECTE926	Power Distribution	Spring	6
	ECTE933	Embedded Systems	Autumn	6
	ECTE941	Intelligent Control	Autumn	6
Informatics	ECTE942	Computer Controlled Systems	Spring	6
	ECTE943	Digital Control	n/o 2007	6
	ECTE953	Advanced Project	Autumn/Spring	12
Law	ECTE965	Wireless Communication Systems	Spring	6
	ECTE970	Advanced Topics in Engineering	Autumn/Spring	6
	ECTE971	Robotics and Flexible Automation	Spring	6
Science	<b>Telecommunications Engineering Major</b>			
	Students must select four subjects from the following list:			
	CSCI968	Network Security	Spring	6
	ECTE901	Multimedia Signal Processing	Autumn	6
	ECTE902	Stochastic Signal Processing	n/o 2007	6
	ECTE953	Advanced Project	Autumn/Spring	12
	ECTE962	Telecommunications System Modelling	Spring	6
	ECTE965	Wireless Communication Systems	Spring	6
	ECTE968	Error Control Coding	n/o 2007	6
	ECTE970	Advanced Topics in Engineering	Autumn/Spring	6
	ECTE981	Internet Protocols	n/o 2007	6
	ECTE982	Network Engineering	Autumn	6
	ECTE986	Telecommunications Network Management	n/o 2007	6
	<b>Electives</b>			
	Students must select two subjects from the following list:			
	CSCI968	Network Security	Spring	6
	ECTE901	Multimedia Signal Processing	Autumn	6
	ECTE902	Stochastic Signal Processing	n/o 2007	6
	ECTE903	Image and Video Processing	Spring	6
	ECTE904	Adaptive Signal Processing	n/o 2007	6
	ECTE905	Speech and Audio Processing	n/o 2007	6
	ECTE912	Power Electronics and Drives	Autumn	6

ECTE923	Power System Analysis	Autumn	6
ECTE926	Power Distribution	Spring	6
ECTE931	Real-Time Computing	Autumn	6
ECTE932	Computer Systems	Spring	6
ECTE933	Embedded Systems	Autumn	6
ECTE941	Intelligent Control	Autumn	6
ECTE942	Computer Controlled Systems	Spring	6
ECTE943	Digital Control	n/o 2007	6
ECTE962	Telecommunications System Modelling	Spring	6
ECTE965	Wireless Communication Systems	Spring	6
ECTE968	Error Control Coding	n/o 2007	6
ECTE971	Robotics and Flexible Automation	Spring	6
ECTE981	Internet Protocols	n/o 2007	6
ECTE982	Network Engineering	Autumn	6
ECTE986	Telecommunications Network Management	n/o 2007	6
ENGG951	Engineering Project Management	Autumn/Spring	6

### Other Information

Students who have satisfactorily completed ECTE953 Advanced Project and who gain a weighted average mark of 67.5% or higher in the Master of Engineering Studies are eligible to apply for entry to the Master of Engineering – Research, subject to supervisor availability.

## Master of Engineering Studies (Double Major)

Testamur Title of Degree:	Master of Engineering Studies (name of majors)
Majors Available:	Computer Engineering-Electrical Engineering, Computer Engineering-Telecommunications Engineering, Electrical Engineering-Telecommunications Engineering
Abbreviation:	MEngStud
Home Faculty:	Informatics
Duration:	1.5 year (3 full-time sessions) or 2 years (4 full-time sessions) or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1587
CRICOS Code:	058976j

### Overview

The objective of this program is to provide graduates with engineering skills at a level between the Bachelor and Masters by Research degree levels.

### Entry Requirements / Assumed Knowledge

A degree equivalent to an Australian four-year Bachelor of Engineering in Computer, Electrical, Electronics or Telecommunications Engineering.

### Course Requirements

The Master of Engineering Studies (Double Major) program provides the opportunity for students to undertake a double major in Computer Engineering-Electrical Engineering, Computer Engineering-Telecommunications Engineering or Electrical Engineering-Telecommunications Engineering. Both majors would be recorded on the testamur. Students must complete 72 credit points, consisting of the common core (12 credit points), two majors (48 credit points) and two electives (12 credit points).

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Subjects, which are duplicated across the majors, cannot be counted in both majors. For example, where one subject is listed in both the Computer Engineering and the Electrical Engineering Majors, it can only be counted in one of these majors for students doing the Computer Engineering–Electrical Engineering double major.

ECTE953 Advanced Project (12 credit points and topic must be in the area of one of the majors being undertaken) is optional. Entry to this subject is restricted to those students who gain a weighted average mark of at least 72.5% for the full-time first session load or equivalent (i.e. four six credit point subjects, including ECTE906 Advanced Signals and Systems, ECTE955 Advanced Laboratory plus two six credit point subjects from the major). ECTE953 Advanced Project can only be taken in one of the majors being undertaken, i.e. one major could consist of ECTE953 Advanced Project and two six credit point subjects selected from that major list and the second major must consist of four six credit point subjects selected from the list of subjects under that major. The course program is set out below.

## Course Program

### Subjects Session Credit Points

Note: Only a limited number of subjects will be offered in any one year.

#### CORE

ECTE906	Advanced Signals and Systems	Autumn/Spring	6
ECTE955	Advanced Laboratory	Autumn/Spring	6

#### Computer Engineering Major

Students must select four subjects from the following list:

ECTE901	Multimedia Signal Processing	Autumn	6
ECTE903	Image and Video Processing	Spring	6
ECTE904	Adaptive Signal Processing	n/o 2007	6
ECTE905	Speech and Audio Processing	n/o 2007	6
ECTE931	Real-Time Computing	Autumn	6
ECTE932	Computer Systems	Spring	6
ECTE933	Embedded Systems	Autumn	6
ECTE942	Computer Controlled Systems	Spring	6
ECTE953	Advanced Project	Autumn/Spring	12
ECTE970	Advanced Topics in Engineering	Autumn/Spring	6
ECTE997	Web Technology and Applications	Autumn/Spring	6

#### Electrical Engineering Major

Students must select four subjects from the following list:

ECTE902	Stochastic Signal Processing	n/o 2007	6
ECTE912	Power Electronics and Drives	Autumn	6
ECTE923	Power System Analysis	Autumn	6
ECTE926	Power Distribution	Spring	6
ECTE933	Embedded Systems	Autumn	6
ECTE941	Intelligent Control	Autumn	6
ECTE942	Computer Controlled Systems	Spring	6
ECTE943	Digital Control	n/o 2007	6
ECTE953	Advanced Project	Autumn/Spring	12
ECTE965	Wireless Communication Systems	Spring	6
ECTE970	Advanced Topics in Engineering	Autumn/Spring	6
ECTE971	Robotics and Flexible Automation	Spring	6

#### Telecommunications Engineering Major

Students must select four subjects from the following list:

CSCI968	Network Security	Spring	6
ECTE901	Multimedia Signal Processing	Autumn	6
ECTE902	Stochastic Signal Processing	n/o 2007	6
ECTE953	Advanced Project	Autumn/Spring	12
ECTE962	Telecommunications System Modelling	Spring	6

ECTE965	Wireless Communication Systems	Spring	6
ECTE968	Error Control Coding	n/o 2007	6
ECTE970	Advanced Topics in Engineering	Autumn/Spring	6
ECTE981	Internet Protocols	n/o 2007	6
ECTE982	Network Engineering	Autumn	6
ECTE986	Telecommunications Network Management	n/o 2007	6

### Electives

Students must select two subjects from the following list:

CSCI968	Network Security	Spring	6
ECTE901	Multimedia Signal Processing	Autumn	6
ECTE902	Stochastic Signal Processing	n/o 2007	6
ECTE903	Image and Video Processing	Spring	6
ECTE904	Adaptive Signal Processing	n/o 2007	6
ECTE905	Speech and Audio Processing	n/o 2007	6
ECTE912	Power Electronics and Drives	Autumn	6
ECTE923	Power System Analysis	Autumn	6
ECTE926	Power Distribution	Spring	6
ECTE931	Real-Time Computing	Autumn	6
ECTE932	Computer Systems	Spring	6
ECTE933	Embedded Systems	Autumn	6
ECTE941	Intelligent Control	Autumn	6
ECTE942	Computer Controlled Systems	Spring	6
ECTE943	Digital Control	n/o 2007	6
ECTE962	Telecommunications System Modelling	Spring	6
ECTE965	Wireless Communication Systems	Spring	6
ECTE968	Error Control Coding	n/o 2007	6
ECTE971	Robotics and Flexible Automation	Spring	6
ECTE981	Internet Protocols	n/o 2007	6
ECTE982	Network Engineering	Autumn	6
ECTE986	Telecommunications Network Management	n/o 2007	6
ENGG951	Engineering Project Management	Autumn/Spring	6

### Other Information

Students who have satisfactorily completed ECTE953 Advanced Project and who gain a weighted average mark of 67.5% or higher in the Master of Engineering Studies (Double Major) are eligible to apply for entry to the Master of Engineering – Research, subject to supervisor availability.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Master of Internet Technology

Testamur Title of Degree:	Master of Internet Technology
Abbreviation:	MIT
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1513
CRICOS Code:	036463E

## Overview

This program is designed to provide students with advanced knowledge and specialist skills in a broad range of Internet technologies and systems.

The MIT degree is designed to enable a wide range of entry. It is suitable for candidates who wish to:

- update their existing technical qualifications;
- gain a qualification to complement their significant experience in related fields; or
- obtain a fundamental understanding of IT and how it affects their area of expertise.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three or four-year Australian Bachelor degree completed within the last five years, with at least a 60% average, in Telecommunications, Computer or Electrical Engineering, Computer Science, Information Technology or related field; or a Graduate Diploma in Internet Technology.

Applicants with other degrees containing relevant computing content and/or who have at least two years Internet/ computing work-related experience may be considered, or may be eligible for entry to the Graduate Diploma in Internet Technology.

## Course Requirements

The degree will normally occupy two sessions of full-time study, or part-time equivalent, and requires the satisfactory completion of Option A or B, as outlined in the following course program.

## Course Program

Subjects	Session	Credit Points
<b>Option A</b>		
ECTE991 Internet Fundamentals	Autumn/Spring	6
ECTE956 Internet Technology Laboratory*	Autumn/Spring	6
Plus six subjects** from the following, of which three must be ECTE subjects:		
CSCI968 Network Security	Spring	6
ECTE992 Internet Networking Protocols	Autumn/Spring	6
ECTE993 Wireline and Optical Communications	Autumn/Spring	6
ECTE994 Wireless and Mobile Communication Systems	Autumn	6
ECTE995 Content Servers and Caching Technologies	n/o 2006	6
ECTE996 Multimedia Communications	Autumn/Spring	6
ECTE997 Web Technology and Applications	Spring	6
IACT906 Business On-Line	Spring	6
IACT918 Corporate Network Management	Autumn	6
ITCS922 Computer Security	Autumn	6
ITCS937 Security, Risk Management and Control in Electronic Commerce	Autumn	6

## Option B

ECTE991	Internet Fundamentals	Autumn/Spring	6
ECTE956	Internet Technology Laboratory*	Autumn/Spring	6
ECTE957	Advanced Internet Project***	Autumn/Spring	12
Plus four subjects** from the following, of which one must be an ECTE subject:			
CSCI968	Network Security	Spring	6
ECTE992	Internet Networking Protocols	Autumn/Spring	6
ECTE993	Wireline and Optical Communications	Autumn/Spring	6
ECTE994	Wireless and Mobile Communication Systems	Autumn	6
ECTE995	Content Servers and Caching Technologies	n/o 2006	6
ECTE996	Multimedia Communications	Autumn/Spring	6
ECTE997	Web Technology and Applications	Spring	6
IAC906	Business On-Line	Spring	6
IAC918	Corporate Network Management	Autumn	6
ITCS922	Computer Security	Autumn	6
ITCS937	Security, Risk Management and Control in Electronic Commerce	Autumn	6

\* ECTE956 Internet Technology Laboratory must be undertaken in the first session of a student's enrolment.

\*\*Only a limited number of subjects will be available in any one session.

\*\*\*Entry to this subject is restricted to those students who gain a weighted average mark of 72.5% for the full-time first session load (i.e. four six credit point subjects, including ECTE956 Internet Technology Laboratory and ECTE991 Internet Fundamentals).

## Other Information

Students who have satisfactorily completed ECTE957 Advanced Internet Project and who gain a weighted average mark of 72.5% or higher in the Master of Internet Technology are eligible to apply for entry to the Master of Engineering – Research, subject to supervisor availability.

## Graduate Diploma in Internet Technology

Testamur Title of Degree:	Graduate Diploma in Internet Technology
Abbreviation:	GDipIT
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	675
CRICOS Code:	047175M

## Overview

The objective of this program is to provide state of the art knowledge and specialist skills on a broad range of Internet technologies and systems. It is suitable for candidates who have existing but limited ICT technical qualifications or who have significant experience in related fields, but wish to significantly upgrade their knowledge and understanding in this field. The Graduate Diploma in Internet Technology also provides a pathway to the Master of Internet Technology (MIT) degree.

## Entry Requirements / Assumed Knowledge

A three-year tertiary qualification with at least a 60% average, which must include the equivalent of first year mathematics. Applicants without first-year mathematics, but who have at least two years of Internet/computer related work experience may be considered.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Course Requirements

The Graduate Diploma in Internet Technology requires the satisfactory completion of a recommended program of study approved by the Head of School, consisting of 48 credit points of coursework subjects.

Students will have the opportunity to gain general and specialist skills in diverse areas of Internet technologies and their applications, including:

- Programming and programming languages such as Java,
- Database systems,
- System level engineering principles and design,
- Electronics and communications, and
- Embedded Internet systems.

State of the art practical exposure to Internet technologies will be provided through advanced laboratory experiments and communication and group work skills.

On enrolment, each student will be considered individually and provided with details of subjects recommended to suit their specific background.

## Other Information

Students who satisfactorily complete the Graduate Diploma in Internet Technology are eligible to apply for entry to the Master of Internet Technology.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# School of Information Technology and Computer Science

## Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Informatics
Duration:	3 years (6 full-time sessions) or part-time equivalent
Total Credit Points:	48 cp per year
Delivery Mode:	Face-to-face, or combination of Face-to-face/distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	201
CRICOS Code:	001244E

### Overview

Doctor of Philosophy (PhD) candidates undertake in-depth research in order to make an original contribution to the body of knowledge in a chosen field of study. This qualification can lead to, or enhance, an academic career and is also highly regarded by public and private sector employers.

### Entry Requirements / Assumed Knowledge

A four-year Honours Bachelor degree in Information and Communication Technology or Computer Science (a minimum of Class II, Division 2 or higher), or a Master of Information and Communication Technology – Research or Master of Computer Science – Research degree with strong performance in the 48 credit point thesis, or equivalent.

### Course Requirements

This program is 100% by thesis. Candidates enrol in a 48 credit point thesis subject and repeat the same enrolment for each year of study, usually over three years of full-time study. Students may be required to attend lectures in relevant topics from time to time throughout the program.

### Current Research Areas

#### e-Business Applications

Customer relationship management  
e-Commerce  
e-Learning  
e-Manufacturing  
Information management  
Supply chain management

#### Computer and Communication Security

Cryptography  
Network and communication security  
Distributed systems security  
Error control coding  
Combinatorial designs

#### Multimedia Content Protection and Management

Multimedia signal processing  
Content protection (encryption, watermarking, authentication)

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science



Arts	Digital rights management Image and video processing Digital camera image processing (de-mosaicing,AWB, colour correction) Video surveillance Multimedia content based annotation, browsing and searching
Commerce	Biometric security <b>Intelligent Systems</b> Robotics Neural networks Machine vision
Creative Arts	Ultrasonic sensing Spatial databases Safety, risk and hazard analysis Distributed systems Databases
Education	Workflow and process modelling Software engineering Decision systems Supply chain management <b>Health Informatics</b>
Engineering	Aged care Ambulatory care Electronic health records Health record input systems Point-of-care solutions Privacy issues in EHRs
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

<b>Master of Information and Communication Technology - Research</b>	
Testamur Title of Degree:	Master of Information and Communication Technology – Research
Abbreviation:	MInfoTech – Res
Home Faculty:	Informatics
Duration:	1.5 years (3 full-time sessions) or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Face-to-face, or combination of Face-to-face/Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1309
CRICOS Code:	042638C

<b>Overview</b>
This program is designed to provide students with sound practice in research methods appropriate to the study of information and communication technology applications, and to prepare students for Doctor of Philosophy (PhD) level research.
<b>Entry Requirements / Assumed Knowledge</b>
This is primarily a research degree for those who have completed an Honours Bachelor degree at a standard of Class II, Division 2 or higher, or a Masters by coursework in an appropriate discipline which includes a minor project worth at least 12 credit points or equivalent.

If a candidate has a good academic record, and has completed a minor project worth at least 12 credit points or equivalent, entry from a Pass Bachelor degree, Pass Bachelor degree and Graduate Diploma, or Pass Bachelor Degree and Graduate Certificate, is possible.

## Advanced Standing

Candidates with an Honours Bachelor degree at a standard of Class II, Division 2 or higher, or Masters by coursework degree, may be given exemption from all, or some, of the 24 credit points of coursework and admitted directly to the 48 credit point research thesis component. This is contingent on evidence of proven research experience.

## Course Requirements

The degree is normally 72 credit points, consisting of a 48 credit point research thesis and 24 credit points of coursework. The program must be completed in a maximum time of two years full-time and requires satisfactory completion of the following:

1. IACT940 Research Methodology (6cp);
2. Three subjects (18cp) from the IACT Graduate Subjects List to constitute a coherent introduction to the proposed area of research, as agreed to by the Head of School. (Note: students must achieve at least a WAM of 67.5% in the coursework component); and
3. 48 credit point thesis.

Candidates who fail to meet the requisite standard for the coursework component may have their enrolment cancelled. In this case, a candidate may be eligible to apply for one of the graduate certificates offered by the School or transfer to a 48 credit point Masters by coursework degree.

A candidate may not include for this degree subjects similar in content to subjects included in their Honours or Masters. Each candidate shall have a supervisor and a co-supervisor appointed on the recommendation of the Head of School of Information Technology and Computer Science.

## Current Research Areas

For areas of interest available to candidates undertaking the Master of Information and Communication Technology – Research, please refer to Current Research Areas under the Doctor of Philosophy entry.

## Master of Computer Science - Research

Testamur Title of Degree:	Master of Computer Science – Research
Abbreviation:	MCompSc – Res
Home Faculty:	Informatics
Duration:	1.5 years (3 full-time sessions) or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Face-to-face, or combination of Face-to-face/Distance
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1313
CRICOS Code:	042541A

## Overview

This program is designed to equip students with superior skills in research design and methodology in preparation for leadership roles in the field of computer science.

## Entry Requirements / Assumed Knowledge

This is primarily a research degree for those who have completed an Honours Bachelor degree at a standard of Class II, Division 2 or higher, or a Masters by coursework in an appropriate discipline, which includes a minor project worth at least 12 credit points or equivalent.

If a candidate has a good academic record, and has completed a project worth at least 12 credit points or equivalent, entry from a Pass Bachelor degree, Pass Bachelor degree and Graduate Diploma, or Pass Bachelor Degree and Graduate Certificate, is possible.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Advanced Standing

Candidates with an Honours Bachelor degree at a standard of Class II, Division 2 or higher, or Masters by coursework degree, may be given exemption from all, or some, of the 24 credit points of coursework and admitted directly to the 48 credit point research thesis component. This is contingent on evidence of proven research experience.

## Course Requirements

The degree is normally 72 credit points, consisting of a 48 credit point research thesis and 24 credit points of coursework. The program must be completed in a maximum time of two years full-time and requires satisfactory completion of the following:

1. IACT940 Research Methodology (6cp)
2. Three subjects (18cp) from the CSCI Graduate Subjects List to constitute a coherent introduction to the proposed area of research, as agreed to by Head of School. (Note: students must achieve at least a WAM of 67.5% in the coursework component); and
3. 48 credit point thesis.

Candidates who fail to meet the requisite standard for the coursework component may have their enrolment cancelled. In this case, a candidate may be eligible to apply for one of the graduate certificates offered by the School or transfer to a 48 credit point Masters by coursework degree.

A candidate may not include for this degree subjects similar in content to subjects included in their Honours or Masters. Each candidate shall have a supervisor and a co-supervisor appointed on the recommendation of the Head of the School of Information Technology and Computer Science.

## Current Research Areas

Refer to Current Research Areas under the Doctor of Philosophy entry.

## Master of Information and Communication Technology Advanced

Testamur Title of Degree:	Master of Information and Communication Technology Advanced
Abbreviation:	MICT (Adv)
Home Faculty:	Informatics
Duration:	1.5-2 years (3-4 full-time sessions) or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1563
CRICOS Code:	056217J

## Overview

This degree is aimed primarily at graduates working in the ICT industry who will benefit from an in-depth study of the organisational, economic, regulatory and socio-technical issues that arise in the implementation and application of IT, and of how to effectively manage these issues. Candidates may choose to complete either a single or a double major in a sub-discipline such as applied e-business technologies, e-business management, corporate network management, corporate network design, information technology management or health informatics.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree, with at least a 60% average, in an area related to ICT (eg Computer Science, Information Technology, Business Information Systems, Computer Engineering, Electrical Engineering, Telecommunications Engineering), or a Graduate Certificate in Information and Communication Technology with at least a 60% average.

Applicants with a degree in any area plus at least one year full-time employment in the ICT industry will be considered. Students with an average mark of at least 60% in their three-year Bachelor degree, but with little or no background in IT, may still apply, but may be required to take up to three (3) subjects in addition to the core subject, as specified by the course coordinator.

## Course Requirements

- The degree requires satisfactory completion of 900-level subjects to the value of at least 72 credit points, including:
  - The core subject ITCS900, Fundamentals of Contemporary Technologies.
  - Eight (8) subjects (48cp) selected from the IACT Graduate Subjects List.
  - An additional three (3) subjects (18cp) selected from the IACT Graduate Subjects List, the CSCI Graduate Subjects List or the Graduate Additional Subjects List.
- To be awarded with a major study, a candidate shall satisfactorily complete four (4) subjects (24cp) as set out in the relevant program below, within the requirements of 1(b) and (c) above.
- To be awarded with a double major, candidates must ensure that four of the subjects selected satisfy the requirements of one major and that a separate set of four subjects satisfy the requirements of a second major, i.e. any subject counted towards one major cannot also count towards a second major.

## Areas of Major Study

Candidates enrolled in this degree may choose to major in:

- Applied e-Business Technologies [MICT01]
- e-Business Management [MICT02]
- Corporate Network Management [MICT03]
- Corporate Network Design [MICT04]
- Information Technology Management [MICT05]
- Health Informatics [MICT06]

NOTE: Subjects below marked with an asterisk (\*) are from the Graduate Additional Subjects List or the CSCI Graduate Subjects List. The course requirements allow at most 3 subjects from a list other than the IACT Graduate Subjects List to be counted in the total credit points required for this degree (see course requirement 1(c) above). Candidates who do more than 3 subjects from a list other than the IACT Graduate Subject List will only be allowed to count the first 3 of those subjects towards the total credit points for the degree.

Subjects	Session	Credit Points
Applied e-Business Technologies		
ITCS938 e-Business Technologies	Autumn	6
Plus at least 18 credit points from the following subjects:		
IACT919 Online Information Services	Spring	6
ITCS936 Detailed Design of Integrated Solutions for e-Business	Spring	6
ITCS937 Security, Risk Management & Control in Electronic Commerce	Autumn	6
ITCS950 Patterns for e-Business	Autumn	6
ITCS951 Web Services for Dynamic e-Business	Spring	6
e-Business Management		
IACT906 Business On-Line	Spring	6
Plus at least 18 credit points from the following subjects:		
IACT901 IT Strategic Planning	Spring	6
IACT905 Information Technology and Innovation	Autumn	6
IACT916 Organisational Issues in Information Technology	Autumn	6
IACT919 Online Information Services	Spring	6
TBS908* Supply Chain Management	Intake A/Intake C	6
Corporate Network Management		
IACT918 Corporate Network Management	Autumn	6
Plus at least 18 credit points from the following subjects:		
CSCI968* Network Security	Spring	6
ECTE986* Telecommunications Network Management	n/o 2006	6
IACT901 IT Strategic Planning	Spring	6
IACT916 Organisational Issues in Information Technology	Autumn	6
Corporate Network Design		

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Arts	IACT924	Corporate Network Design and Implementation	Spring	6
	Plus at least 18 credit points from the following subjects:			
	CSCI968★	Network Security	Spring	6
	ECTE962★	Telecommunications System Modelling	Autumn	6
	ECTE982★	Internet Engineering	Spring	6
Commerce	ECTE992★	Internet Networking Protocols	Autumn/Spring	6
	ITCS937	Security, Risk Management & Control in Electronic Commerce	Autumn	6
	Note: 4 subjects in the Corporate Network Design major are from the Graduate Additional Subjects List or the CSCI Graduate Subjects List. The course requirements allow at most 3 subjects from a list other than the IACT Graduate Subjects List to be counted in the total credit points required for this degree. Candidates who do more than 3 subjects from a list other than the IACT Graduate Subject List will only be allowed to count the first 3 of those subjects towards the total credit points for the degree.			
Creative Arts	Information Technology Management			
Education	IACT901	IT Strategic Planning	Spring	6
	Plus at least 18 credit points from the following subjects:			
	BUSS952★	Strategic Information System Management	Autumn	6
	IACT905	Information Technology and Innovation	Autumn	6
	IACT916	Organisation Issues in Information Technology	Autumn	6
Engineering	IACT917	Information Management	Autumn	6
	Health Informatics			
	ITCS930	Introduction to Health Informatics	Autumn	6
	Plus at least 18 credit points from the following subjects:			
	GHMD909★	Comparative Health Systems: Policies and Politics	Spring	6
Graduate School of Business	GHMD983★	Statistics in Health Research	Spring	6
	IACT916	Organisational Issues in Information Technology	Autumn	6
	ITCS929	Concepts and Issues In Healthcare Computing	Spring	6
	ITCS952	Exploiting Collaborative Technologies	Spring	6
Note: Not all subjects will be available every year.				
Additional Information				
Health & Behavioural Sciences	Prior to the conferring of a Master of Information and Communication Technology (Advanced) upon a candidate who holds a Graduate Certificate in Information and Communication Technology (GCertICT) or a Master of Information and Communication Technology (MICT) from this University, the candidate will surrender the testamur and all rights relating to the GCertICT or MICT.			
Informatics	Master of Computer Science Advanced			
Law	Testamur Title of Degree:	Master of Computer Science Advanced		
	Abbreviation:	MCompSc (Adv)		
	Home Faculty:	Informatics		
	Duration:	1.5-2 years (3-4 full-time sessions) or part-time equivalent		
	Total Credit Points:	72		
	Delivery Mode:	Face-to-face		
	Starting Session(s):	Autumn/Spring		
Science	Location:	Wollongong		
	UOW Course Code:	1562		
	CRICOS Code:	056216K		

## Overview

This degree is designed to provide advanced studies in Computer Science at a professional level and also prepare students for the Master of Computer Science – Research or Doctoral research programs. Candidates may choose to complete either a single or a double major in a sub-discipline such as computer and network security, digital multimedia programming or software engineering.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree with a major in Computer Science, Software Engineering or Computer Engineering, with at least a 60% average. Knowledge of C++ and UNIX is assumed.

## Course Requirements

- The degree requires satisfactory completion of 900 level subjects to the value of at least 72 credit points, including:
  - At least nine (9) subjects (54cp) selected from the CSCI Graduate Subjects List.
  - No more than three (3) additional subjects (18cp) selected from both the CSCI Graduate Subjects List and the IACT Graduate Subjects List.
  - With the prior approval of the course coordinator, no more than two (2) subjects (12cp) from the Graduate Additional Subjects List.
- To be awarded with a major study, a candidate shall satisfactorily complete four (4) subjects (24cp) as set out in the relevant program below, within the requirements of 1 above.
- To be awarded with a double major, candidates must ensure that four of the subjects selected satisfy the requirements of one major and that a separate set of four subjects satisfy the requirements of a second major, i.e. any subject counted towards one major cannot also count towards a second major.

## Areas of Major Study

Candidates enrolled in this degree may choose to major in:

- Digital Multimedia Programming [MCSC01]
- Software Engineering [MCSC02]
- Computer and Network Security [MCSC03]

Requirements for majors

### Digital Multimedia Programming

Choose 24cp from this list

Subjects		Session	Credit Points
CSCI944	Perception and Planning	Spring	6
CSCI946	Multimedia Studies	Autumn	6
CSCI963	Advanced Computer Graphics	Autumn	6
ITCS932	Web Design	Spring	6
ITCS942	Multimedia 3D Modelling and Animation	Spring	6
ITCS943	Game Design and Programming*	Autumn	6

### Software Engineering

Please choose 24cp from this list

Subjects		Session	Credit Points
CSCI910	Formal Methods in Software Engineering	Autumn	6
CSCI918	Software Engineering Practices and Principles*	Spring	6
CSCI925	Topics in Software Engineering	Spring	6
CSCI974	Systems Analysis	n/o 2007	6
IACT902	Applied Project Management**	n/o 2007	6
IACT924	Corporate Network Design and Implementation**	Autumn	6
ITCS921	Database Design and Implementation*	Autumn	6
ITCS933	Software Engineering Requirements and Specifications	Spring	6
ITCS934	Software Process Management*	Autumn	6

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## Computer and Network Security

Choose 24cp from this list

Subjects	Session	Credit Points
CSCI965 Algorithms	Spring	6
CSCI966 Coding for Secure Communication	Autumn	6
CSCI967 Complexity Theory	n/o 2007	6
CSCI968 Network Security*	Spring	6
CSCI971 Advanced Computer Security	Spring	6
INFO912 Mathematics for Cryptography	Autumn	6
ITCS922** Computer Security*	Autumn	6

\* Subjects marked with an asterisk (\*) are from the Graduate Additional Subjects List. These preparatory subjects are required in a major if a candidate has not successfully completed a subject with substantially similar content in their previous studies. These subjects should not be selected if a candidate has the required background in the major area. Selection of subjects from the Graduate Additional Subjects List requires prior approval from the course coordinator.

The work completed for the degree can include at most two subjects from the Graduate Additional Subjects list. Subjects marked with a double asterisk (\*\*) are from the IACT Graduate Subjects List and count for the three (3) subject limit for such subjects.

Note: Not all subjects will be available every year.

## Other Information

Prior to the conferring of a Master of Computer Science Advanced upon a candidate who holds a Master of Computer Science (MCompSc) from this University, the candidate will surrender the testamur and all rights relating to the MCompSc.

## Master of Computer Science

Testamur Title of Degree:	Master of Computer Science
Abbreviation:	MCompSc
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	585
CRICOS Code:	012129F

## Overview

This degree is designed to provide advanced studies in Computer Science at a professional level and also prepare students for the Master of Computer Science – Research or Doctoral research programs. Candidates may choose to complete a single major in a sub-discipline such as computer and network security, digital multimedia programming or software engineering.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree with a major in Computer Science, Software Engineering or Computer Engineering, with at least a 60% average. Knowledge of C++ and UNIX is assumed.

## Course Requirements

- The degree requires satisfactory completion of 900 level subjects to the value of at least 48 credit points, including:
  - At least five (5) subjects (30cp) selected from the CSCI Graduate Subjects List.
  - The other three (3) subjects (18cp) may be selected from both the CSCI Graduate Subjects List and the IACT Graduate Subjects List, or with the prior approval of the course coordinator, at most two (2) of these subjects (12cp) may be selected from the Graduate Additional Subjects List.

2. To be awarded with a major study, a candidate shall satisfactorily complete four (4) subjects (24cp) as set out in the relevant program below, within the requirements of 1 above.
3. This degree can be completed without a Major.

## Areas of Major Study

Students enrolled in this degree may choose to major in:

- Digital Multimedia Programming [MCSC01]
- Software Engineering [MCSC02]
- Computer and Network Security [MCSC03]

### Digital Multimedia Programming

Choose 24cp from this list

Subjects		Session	Credit Points
CSCI944	Perception and Planning	Spring	6
CSCI946	Multimedia Studies	Autumn	6
CSCI963	Advanced Computer Graphics	Autumn	6
ITCS932	Web Design	Spring	6
ITCS942	Multimedia 3D Modelling and Animation	Spring	6
ITCS943	Game Design and Programming★	Autumn	6

### Software Engineering

Choose 24cp from this list

Subjects		Session	Credit Points
Plus at least 18 credit points from the following subjects:			
CSCI910	Formal Methods in Software Engineering	Autumn	6
CSCI918	Software Process ManagementSoftware Engineering Practices and Principles*	Spring	6
CSCI925	Topics in Software Engineering	Spring	6
CSCI974	Systems Analysis	n/o 2007	6
IACT902	Applied Project Management**	n/o 2007	6
IACT924	Corporate Network Design and Implementation**	Autumn	6
ITCS921	Database Design and Implementation*	Autumn	6
ITCS933	Software Engineering Requirements and Specifications	Spring	6
ITCS934	Software Process Management*	Autumn	6

### Computer and Network Security

Choose 24cp from this list

Subjects		Session	Credit Points
Plus at least 12 credit points from the following subjects:			
CSCI965	Algorithms	Spring	6
CSCI966	Coding for Secure Communication	Autumn	6
CSCI967	Complexity Theory	n/o 2007	6
CSCI968	Network Security*	Spring	6
CSCI971	Advanced Computer Security	Spring	6
INFO912	Mathematics for Cryptography	Autumn	6
ITCS922	Computer Security*	Autumn	6

\* Subjects marked with an asterisk (\*) are from the Graduate Additional Subjects List. These preparatory subjects are required in a major if a candidate has not successfully completed a subject with substantially similar content in their previous studies. These subjects should not be selected if a candidate has the required background in the major area. Selection of subjects from the the Graduate Additional Subjects List requires prior approval from the course coordinator.

The work completed for the degree can include at most two (20) subjects from the Graduate Additional Subjects list. Subjects marked with a double asterisk (\*\*) are from the IACT Graduate Subjects List and count for the three (3) subject limit for such subjects.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science



Note: The course requirements allow at most, three (3) subjects from a list other than the CSCI Graduate Subjects list to be counted in the total credit points required for this degree. Candidates who do more than three (3) subjects from a list other than the CSCI Graduate Subjects list will only be allowed to count the first three (3) of those subjects towards the total credit points for the degree.

## Master of Computer Studies

Testamur Title of Degree:	Master of Computer Studies
Abbreviation:	MCompStud
Home Faculty:	Informatics
Duration:	1.5–2 years (3–4 full-time sessions) or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1510
CRICOS Code:	034148K

### Overview

This course has been specifically designed to allow students with a Bachelor degree outside the computing field to gain a Master level qualification in the area.

### Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree in any discipline, with at least a 60% average.

### Course Requirements

Candidates must successfully complete 12 subjects, including:

1. Seven Core Subjects;
2. No more than three (3) subjects selected from Elective Subjects List A; and
3. At least two (2) subjects selected from the Elective Subjects List B.

### Course Program

Subjects	Session	Credit Points
<b>Core Subjects</b>		
MCS9102 Systems	Spring	6
MCS9103 Algorithms & Problem Solving	Autumn/Spring	6
MCS9114 Procedural Programming	Autumn/Spring	6
MCS9124 Applied Programming	Autumn/Spring	6
MCS9201 Information Technology & Citizen's Rights	Autumn	6
MCS9203 Algorithms & Data Structures	Autumn	6
MCS9204 Object Programming and Frameworks	Autumn/Spring	6
MCS9212 Interacting Systems	Autumn	6
<b>Elective Subjects List A</b>		
Plus no more than 3 subjects from:		
MCS9201 Information Technology & Citizens' Rights	Autumn	6
MCS9205 Development Methods & Tools	Spring	6
MCS9206 Markup Languages	Autumn	6
MCS9213 Java Programming & Object Oriented Design	Spring	6
MCS9214 Distributed Systems	Autumn	6
MCS9235 Database Systems	Spring	6
<b>Elective Subjects List B</b>		

Plus at least 2 subjects from:

MCS9301	Information & Communication Security Issues	Spring	6
MCS9303	The Wired World	Spring	6
MCS9315	Database Design & Implementation	Autumn	6
MCS9317	Database Performance Tuning	Spring	6
MCS9318	Software Engineering Practices & Principles	Spring	6
MCS9322	Systems Administration	Spring	6
MCS9323	Artificial Intelligence	Spring	6
MCS9324	Human Computer Interface	Autumn	6
MCS9334	Real Time Programming	Autumn	6
MCS9337	Organisation of Programming Languages	Spring	6
MCS9361	Computer Security	Autumn	6
MCS9457	Advanced Databases	Autumn	6

## Master of Digital Multimedia

Testamur Title of Degree:	Master of Digital Multimedia
Abbreviation:	MDigMmedia
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1542
CRICOS Code:	046873D

### Overview

Production units that write multimedia software for media creation and presentation via the web, videos, education, computer games or interactive DVDs require employees that have appropriate creative, as well as technical skills. This degree is designed to provide IT graduates with the opportunity to develop skills in both these areas through training in multimedia programming and creation, and in the use of professional multimedia tools.

### Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree with a major in Computer Science, Information Technology, Business Information Systems, Computer, Electrical or Telecommunications Engineering or related area, with at least a 60% average; or a Master of Computer Studies degree, or equivalent.

Applicants will also be required to submit a résumé and a photograph or image that they have produced with a half page essay on the topic "Why I took this photograph or created this image". Hard copy of image/photo must be provided with application.

### Course Requirements

Candidates must successfully complete eight (8) subjects, including:

1. Two (2) Core Subjects (12cp); and
2. Six (6) subjects (36cp) chosen from the list of electives below, or four (4) subjects (24cp) plus the Multimedia Project (12cp).

### Course Program

Subjects	Session	Credit Points
Core Subjects		
ITCS940	Multimedia Programming Foundations	Autumn 6
DESN921	Creative Industries – Design for Interactive Multimedia	Spring 6

Arts
Commerce
Creative Arts
Education
Engineering
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Elective Subjects

Plus 36 credit points from the following:

CSCI944	Perception and Planning	Spring	6
CSCI946	Multimedia Studies	Autumn	6
ECTE996	Multimedia Communications	Spring/ Autumn	6
EDGI911	Information Technology in Education and Training	Autumn	6
ENGG923	Advanced Digital Sound & Imaging Techniques	n/o 2007	6
ITCS932	Web Design	Spring	6
ITCS941	Multimedia Graphics	Autumn	6
ITCS942	Multimedia 3D Modelling and Animation	Spring	6
ITCS943	Game Design and Programming	Autumn	6
ITCS945	Multimedia Project	Spring	12

## Master of Electronic Commerce

Testamur Title of Degree:	Master of Electronic Commerce
Abbreviation:	MElecComm
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1518
CRICOS Code:	042561G

### Overview

This degree is designed to prepare managers for the Electronic Commerce world. The recent surge in the use of the Internet to conduct all forms of business has left many graduates without the required skills to maximise their effectiveness in the new business economy. Employees skilled in electronic commerce concepts and practices will be well placed to operate more effectively and take advantage of the opportunities of doing business in the e-world.

### Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree with at least a 60% average, in Computer Science, Information Technology, Information Systems, Computer or Telecommunications Engineering, Commerce, Management or a related discipline.

### Course Requirements

Candidates must successfully complete eight (8) subjects, including:

- Two (2) Core Subjects (12cp);
- Two (2) subjects (12cp) from Group A (Applied eCommerce);
- Two (2) subjects (12cp) from Group B (eCommerce Management); and
- Two (2) electives (12cp) to be chosen from subjects in Group A, B or C or any other subject approved by the Course Coordinator/s prior to commencement.

Note: Any advanced standing granted for this course will be deemed to be Electives not Core. Students must still complete 12 credit points from Group A and 12 credit points from Group B.

### Course Program

Subjects	Session	Credit Points
<b>Core Subjects</b>		
ITCS938 eBusiness Technologies	Autumn	6

BUSS907	Electronic Commerce	Autumn/Spring/ Summer	6
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#### Group A: Applied eCommerce

Students must choose at least 12 credit points from the following:

BUSS909	Office Automation and Intranets	n/o 2007	6
IACT901	IT Strategic Planning	Spring	6
IACT906	Business On-Line	Spring	6
IACT924	Corporate Network Design & Implementation	Spring	6
ITCS932	Web Design	Spring	6
ITCS936	Detailed Design of Integrated Solutions for eBusiness	Spring	6
ITCS937	Security, Risk Management & Control in Electronic Commerce	Autumn	6
ITCS940	Multimedia Programming Foundations	Autumn	6
ITCS950	Patterns for eBusiness	Autumn	6
ITCS951	Web Services for Dynamic eBusiness	Spring	6

#### Group B: eCommerce Management

Students must choose at least 12 credit points from the following:

ACCY936	Management & Information Systems	Autumn/Spring	6
BUSS952	Strategic Information Systems Management	Autumn	6
BUSS953	Management of Information Systems Development	Spring	6
ECON915	Electronic Commerce & the Economics of Information	n/o 2007	6
MARK901	Marketing on the Internet	Spring	6
TBS908*	Supply Chain Management	Autumn	6

#### Group C: Elective Subjects

ACCY901	Accounting for Managers	Autumn/Spring	6
or			
TBS901*	Accounting for Managers	Autumn	6
BUSS950	Systems Development Methodologies	Autumn	6
BUSS951	Critical Issues in Information Systems	Spring	6
CSCI946	Multimedia Studies	Autumn	6
IACT917	Information Management	Autumn	6
ITCS933	Software Engineering Requirements & Specifications	Spring	6
ITCS934	Software Process Management	Autumn	6
MARK922	Marketing Management	Autumn	6
or			
TBS903*	Managing People in Organisations	Spring	6
TBS904*	Marketing Management	n/o 2007	6
TBS905*	Economic Analysis of Business Environment	n/o 2007	6
TBS906*	Information Systems for Managers	Autumn	6

\* Offered by the University of Wollongong Graduate School of Business.

Start dates differ from the standard University Calendar.

#### Other Information

Students may be able to undertake some subjects for this degree at the Sydney Business School. Please refer to the University Subject Database for availability.

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# Master of Health Informatics

Testamur Title of Degree:	Master of Health Informatics
Abbreviation:	MHealthInfo
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1540
CRICOS Code:	046872E

## Overview

Health services in Australia, as in most countries, are experiencing a surge of interest and investment in e-health. This program is designed to provide IT professionals with a better understanding of the specifics of health informatics and provide health professionals with a better understanding of IT within their industry.

The program aims to equip graduates with an understanding of the health sector, and of the application of relevant systems, in order to take on key roles in successful strategy development and health systems projects.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree, with an average of at least 60%, in information technology, computer science or an ICT-related specialisation.

Applicants with a three-year degree in Health Science plus at least one year full-time (or part-time equivalent) employment in a position related to Health will be considered by the Faculty.

## Course Requirements

Candidates must successfully complete eight (8) subjects, including:

1. Three (3) Core Subjects (18cp); and
2. Five (5) subjects (30cp) chosen from the list of electives below, or three subjects (18cp) plus the Research Report (12cp).

## Course Program

Subjects	Session	Credit Points
Core Subjects		
IACT917 Information Management	Autumn	6
ITCS929 Concepts and Issues in Healthcare Computing	Spring	6
ITCS930 Introduction to Health Informatics	Autumn	6

## Elective Subjects

Plus at least 30 credit points from the following\*:

GHMD909	Comparative Health Systems: Policies and Politics	Spring	6
GHMD924	Health Information Systems	n/o 2007	6
GHMD983	Statistics in Health Research	Spring	6
IACT901	IT Strategic Planning	Spring	6
IACT902	Applied Project Management	Spring	6
IACT905	Information Technology and Innovation	Autumn	6
IACT906	Business On-Line	Spring	6
IACT940	Research Methodology	Autumn/Spring	6
IACT950	Research Report	Spring/Summer	12
INFO911	Data Mining and Knowledge Discovery	Spring	6
ITCS905	ISystems	Spring	6

or any other subject approved by the Head of School or the Course Coordinator/s prior to commencement.

NOTE: Not all subjects may be available every year. In addition, an IT background is assumed for some of the listed electives. Students should consult with the course coordinator to ensure appropriate subjects chosen.

## Other Information

Students enrolled in the Master of Health Informatics may apply to graduate with a Graduate Certificate in Health Informatics after satisfactory completion of at least 24 credit points, which must include the three core subjects IACT917, ITCS929 and ITCS930, and one 6 credit point elective subject chosen from the above list.

## Master of Health Leadership and Management

Testamur Title of Degree:	Master of Health Leadership and Management
Abbreviation:	MHLM
Home Faculty:	Graduate School of Business Faculty of Health and Behavioural Sciences Faculty of Informatics
Duration:	12 months full-time or part-time equivalent
Total Credit Points:	48 cps
Starting Session(s):	Autumn, Spring, Summer at Wollongong campus
Delivery Mode:	Face to Face
Location:	Wollongong
UOW Course Code:	1566 – Health & Behavioural Sciences 1567 – Graduate School of Business 1568 – Informatics
CRICOS Code:	TBA

## Overview

This course is designed for practicing health professionals seeking to develop their management and leadership skills. This flexible program allows students to select from a variety of Graduate Certificate degrees and tailor their Masters program to suit their professional development requirements.

## Entry Requirements

Students can enter the Master of Health Leadership and Management degree via either of the pathways detailed below:

1. Applicants with a Bachelor degree of at least three years duration from a recognised tertiary institution or equivalent, together with a minimum of two years full-time relevant work experience will be admitted to the Master of Health Leadership and Management degree. Upon commencement of the degree, students will nominate two Graduate Certificate degrees within the course structure.
2. Alternatively, applicants may apply to enrol in one of the Graduate Certificate degrees listed within the MHLM course structure, provided they meet the entry requirements as specified for this Graduate Certificate by the relevant Faculty. Upon successful completion of the Graduate Certificate with an average mark of at least 60 per cent, students may apply to progress to the Master of Health Leadership and Management with credit for previous studies completed.

## Advanced Standing

Candidates must successfully complete a total of eight subjects, totalling 48 credit points; no advanced standing will be granted for subjects completed in the first graduate certificate degree. Students who successfully complete one of the Graduate Certificate programs listed in the course structure with an average mark of at least 60 per cent, may apply to progress to the MHLM with credit for previous studies.

## Course Requirements

Students who enrol directly into the Master of Health Leadership and Management will be required to meet with the Course Co-ordinator and discuss which two of the graduate certificate programs will comprise the course.

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Those students who enrol initially in one of the Graduate Certificate degrees listed below, will be eligible to progress to the Master of Health Leadership and Management, upon successful completion with an average mark of at least 60 per cent. Candidates will then articulate to the Master of Health Leadership and Management and complete a further 24 credit points of subjects, based on one of the other graduate certificate programs listed below.

At least one of the graduate certificate programs must be chosen from those offered by the Faculty of Health and Behavioural Sciences. As leadership is a core component of this program, students must either complete the Graduate Certificate in Health Leadership and Management OR successfully complete the subject TBS903 Managing People in Organisations within one of the other Graduate Certificates.

#### Faculty of Health and Behavioural Sciences

Graduate Certificate in Health Leadership and Management\*

Graduate Certificate in Health Management

Graduate Certificate in Nutrition Management

#### Graduate School of Business

Graduate Certificate in Business Administration

Graduate Certificate in Logistics

Graduate Certificate in Management

#### Faculty of Informatics

Graduate Certificate in Health Informatics

Graduate Certificate in Information and Communication Technology

Course structures for individual Graduate Certificate degrees can be found in the relevant Faculty's Handbook.

\*To be introduced in Spring 2007. Please contact the Faculty of Health & Behavioural Sciences for more information.

## Master of Industry-based Information Technology

Testamur Title of Degree:	Master of Industry-based Information Technology
Abbreviation:	MIIT
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Modular face-to-face
Starting Session(s):	Negotiable
Location:	Wollongong/off-shore#†
UOW Course Code:	1512
CRICOS Code:	Not Applicable

# By request.

† This program is not available to international students on-shore.

### Overview

This industry-based degree has been specifically tailored for practising IT professionals, providing a deeper understanding of the issues that arise in the implementation and application of IT. The program informs and educates professionals about the organisational, economics, regulatory and socio-technical issues essential to the effective management of information technology.

The degree aims to improve the skills of professionals who are using the latest software technologies by providing a combined program of academic guidance to work-based activities plus traditional academic subjects, which can be offered off-campus in the form of short courses.

### Entry Requirements / Assumed Knowledge

Current employment in an information and/or communication technology (ICT) related field with:

- A degree equivalent to a three-year Australian Bachelor degree with an average of at least 60% and demonstrated IT knowledge; or
- Qualifications showing an appropriate balance between other academic or professional qualifications, and relevant professional experience in information and/or telecommunications technology.

Ideally, all candidates would have a minimum of two years professional experience in information and/or communication technology. Each application will be considered on its merit.

Note: Enrolment may be through collaborative agreements with companies.

## Course Requirements

Candidates must successfully complete the following three components:

1. Core Professional Development (12cp);
2. ITCS949 Industry-based Information Technology Project (12cp); and
3. Four (4) Academic subjects (24cp).

To be awarded with a major study, three (3) subjects must be selected from one of the groups of subjects listed below.

Subjects		Session	Credit Points
Software Engineering			
CSCI910	Formal Methods in Software Engineering	Autumn	6
CSCI925	Topics in Software Engineering	Spring	6
CSCI957	Advanced Topics in Database Management	Autumn	6
ITCS933	Software Engineering Requirements and Specifications	Spring	6
ITCS934	Software Process Management	Autumn	6
Electronic Commerce			
IACT901	IT Strategic Planning	Spring	6
IACT906	Business On-Line	Spring	6
IACT919	On-Line Information Services	Spring	6
ITCS931	Advanced Web Application Development	n/o 2007	6
ITCS937	Security, Risk Management and Control in Electronic Commerce	Autumn	6
Information Management			
CSCI957	Advanced Topics in Database Management	Autumn	6
IACT916	Organisational Issues in Information Technology	Autumn	6
IACT917	Information Management	Autumn	6
IACT919	On-Line Information Services	Spring	6
IACT926	Information Society, Knowledge Work and Information Technology	n/o 2007	6
ITCS936	Detailed Design of Integrated Solutions for eBusiness	Spring	6
Multimedia			
CSCI946	Multimedia Studies	Autumn	6
CSCI963	Advanced Computer Graphics	Autumn	6
IACT931	Special Topics in Information Technology A	Autumn	6
ITCS907	Java Programming & Object Oriented Design	Spring	6
ITCS932	Web Design	Spring	6
Enterprise Network Planning, Design and Management			
IACT901	IT Strategic Planning	Spring	6
IACT918	Corporate Network Management	Autumn	6
IACT924	Corporate Network Design	Spring	6
ITCS937	Security, Risk Management and Control in Electronic Commerce	Autumn	6

## Other Information

Students enrolled in the MIIT may apply to graduate with a Graduate Certificate in Industry-based Information Technology after satisfactory completion of 24 credit points, chosen from any combination of the following:

1. 6cp for Core Professional Development;
2. ITCS949 Industry-based Information Technology Project (12cp);
3. Up to three Academic subjects (18cp) chosen from the above list.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science



# Master of Information and Communication Technology

Testamur Title of Degree:	Master of Information and Communication Technology
Abbreviation:	MICT
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	581
CRICOS Code:	009250J

## Overview

This degree is aimed primarily at graduates working in the ICT industry who will benefit from an in-depth study of the organisational, economic, regulatory and socio-technical issues that arise in the implementation and application of IT, and of how to effectively manage these issues. Candidates may choose to complete a single major in a sub-discipline such as applied e-business technologies, e-business management, corporate network management, corporate network design, information technology management or health informatics.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree, with at least a 60% average, in an area related to ICT (eg Computer Science, Information Technology, Business Information Systems, Computer Engineering, Electrical Engineering, Telecommunications Engineering), or a Graduate Certificate in Information and Communication Technology with at least a 60% average.

## Course Requirements

- The degree requires satisfactory completion of 900-level subjects to the value of at least 48 credit points, including:
  - the core subject ITCS900, Fundamentals of Contemporary Technologies.
  - four (4) subjects (24cp) selected from the IACT Graduate Subjects List.
  - an additional three (3) subjects (18cp) selected from the IACT Graduate Subjects List, the CSCI Graduate Subjects List or the Graduate Additional Subjects List.
- To be awarded with a major study, a candidate shall satisfactorily complete four (4) subjects (24cp) as set out in the relevant program below, within the requirements of 1(b) and (c) above.

## Areas of Major Study

Candidates enrolled in this degree may choose to major in:

- Applied e-Business Technologies [MICT01]
- e-Business Management [MICT02]
- Corporate Network Management [MICT03]
- Corporate Network Design [MICT04]
- Information Technology Management [MICT05]
- Health Informatics [MICT06]

Subjects marked with an asterisk (\*) are from the Graduate Additional Subjects List or the CSCI Graduate Subjects List. The course requirements allow at most three (3) subjects from a list other than the IACT Graduate Subjects List to be counted in the total credit points required for this degree (see course requirement 1(c) above). Candidates who do more than three (3) subjects from a list other than the IACT Graduate Subject List will only be allowed to count the first three (3) of those subjects towards the total credit points for the degree.

### Subjects

#### Applied e-Business Technologies

ITCS938 e-Business Technologies

Plus at least 18 credit points from the following subjects:

IACT919 Online Information Services

### Session

Autumn

Spring

### Credit Points

6

6

ITCS936	Detailed Design of Integrated Solutions for e-Business	Spring	6
ITCS937	Security, Risk Management & Control in Electronic Commerce	Autumn	6
ITCS950	Patterns for e-Business	Autumn	6
ITCS951	Web Services for Dynamic e-Business	Spring	6

#### **e-Business Management**

IAC906	Business On-Line	Spring	6
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Plus at least 18 credit points from the following subjects:

IAC901	IT Strategic Planning	Spring	6
IAC905	Information Technology and Innovation	Autumn	6
IAC916	Organisational Issues in Information Technology	Autumn	6
IAC919	Online Information Services	Spring	6
TBS908*	Supply Chain Management	Intake A/Intake C	6

#### **Corporate Network Management**

IAC918	Corporate Network Management	Autumn	6
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Plus at least 18 credit points from the following subjects:

CSCI968*	Network Security	Spring	6
ECTE986*	Telecommunications Network Management	n/o 2007	6
IAC901	IT Strategic Planning	Spring	6
IAC916	Organisational Issues in Information Technology	Autumn	6

#### **Corporate Network Design**

IAC924	Corporate Network Design and Implementation	Spring	6
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Plus at least 18 credit points from the following subjects:

CSCI968*	Network Security	Spring	6
ECTE962*	Telecommunications System Modelling	Autumn	6
ECTE982*	Internet Engineering	Spring	6
ECTE992*	Internet Networking Protocols	Autumn/Spring	6
ITCS937	Security, Risk Management & Control in Electronic Commerce	Autumn	6

Note: Four (4) subjects in the Corporate Network Design major are from the Graduate Additional Subjects List or the CSCI Graduate Subjects List. The course requirements allow at most three (3) subjects from a list other than the IACT Graduate Subjects List to be counted in the total credit points required for this degree. Candidates who do more than three (3) subjects from a list other than the IACT Graduate Subject List will only be allowed to count the first three (3) of those subjects towards the total credit points for the degree.

#### **Information Technology Management**

IAC901	IT Strategic Planning	Spring	6
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Plus at least 18 credit points from the following subjects:

BUSS952*	Strategic Information System Management	Autumn	6
IAC905	Information Technology and Innovation	Autumn	6
IAC916	Organisation Issues in Information Technology	Autumn	6
IAC917	Information Management	Autumn	6

#### **Health Informatics**

ITCS930	Introduction to Health Informatics	Autumn	6
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Plus at least 18 credit points from the following subjects:

GHMD909*	Comparative Health Systems: Policies and Politics	Spring	6
GHMD983*	Statistics in Health Research	Spring	6
IAC916	Organisational Issues in Information Technology	Autumn	6
ITCS929	Concepts and Issues In Healthcare Computing	Spring	6
ITCS952	Exploiting Collaborative Technologies	Spring	6

Note: Not all subjects will be available every year.

	Arts
	Commerce
	Creative Arts
	Education
	Engineering
	Graduate School of Business
	Health & Behavioural Sciences
	Informatics
	Law
	Science

## CSCI Graduate Subjects List

	Subjects	Session	Credit Points
Arts	CSCI907 Corba & Enterprise JAVA	Spring	6
	CSCI910 Formal Methods in Software Engineering	Autumn	6
Commerce	CSCI925 Topics in Software Engineering	Spring	6
	CSCI944 Perception and Planning	Spring	6
	CSCI945 Parallel Computing	n/o 2007	6
Creative Arts	CSCI946 Multimedia Studies	Autumn	6
	CSCI957 Advanced Topics in Database Management	Autumn	6
	CSCI963 Advanced Computer Graphics	Autumn	6
Education	CSCI964 Neural Computing	Autumn	6
	CSCI965 Design and Analysis of Algorithms	n/o 2007	6
	CSCI966 Coding for Secure Communication	Autumn	6
Engineering	CSCI967 Complexity Theory	n/o 2007	6
	CSCI971 Computer Security	Spring	6
	CSCI974 Systems Analysis	n/o 2007	6
Graduate School of Business	CSCI991 Project	Annual	12
	INFO911 Data Mining and Knowledge Discovery	Spring	6
	INFO912 Mathematics for Cryptography	Autumn	6
Health & Behavioural Sciences	INFO913 Information Theory	Spring	6
	ITCS931 Advanced Web Application Development	n/o 2007	6
	ITCS932 Web Design	Spring	6
Informatics	ITCS933 Software Engineering Requirements and Specifications	Spring	6
	ITCS941 Multimedia Graphics	Autumn	6
	ITCS942 Multimedia 3D Modelling and Animation	Spring	6

## IACT Graduate Subjects List

	Subjects	Session	Credit Points
Arts	IACT901 IT Strategic Planning	Spring	6
	IACT902 Applied Project Management	Spring	6
Commerce	IACT904 International Telecommunications Policy Issues	n/o 2007	6
	IACT905 Information Technology and Innovation	Autumn	6
	IACT906 Business On-Line	Spring	6
Creative Arts	IACT916 Organisational Issues in Information Technology	Autumn	6
	IACT917 Information Management	Autumn	6
	IACT918 Corporate Network Management	Autumn	6
Education	IACT919 On-line Information Services	Spring	6
	IACT922 Case Studies in Information Technology Applications	Spring	6
	IACT924 Corporate Network Design and Implementation	Spring	6
Engineering	IACT926 Information Society, Knowledge Work and Information Technology	n/o 2007	6
	IACT930 Special Topics in Information and Communication Technology	n/o 2007	6
	IACT931 Special Topics in Information and Communication Technology A	Autumn	6
Graduate School of Business	IACT932 Special Topics in Information and Communication Technology B	n/o 2007	6
	IACT940 Research Methodology	Autumn/Spring	6
	IACT950 Research Report	Spring/Summer	12
Health & Behavioural Sciences	ITCS900 Fundamentals of Contemporary Technologies	Autumn/Spring	6
	ITCS929 Concepts and Issues in Healthcare Computing	Spring	6

ITCS930	Introduction to Health Informatics	Autumn	6
ITCS936	Detailed Design of Integrated Solutions for eBusiness	Spring	6
ITCS937	Security, Risk Management & Control in Electronic Commerce	Autumn	6
ITCS938	eBusiness Technologies	Autumn	6
ITCS950	Patterns for eBusiness	Autumn	6
ITCS951	Web Services for Dynamic eBusiness	Spring	6
ITCS952	Exploiting Collaborative Technologies	Spring	6

### Graduate Additional Subjects List

Subjects		Session	Credit Points
CSCI918	Software Engineering Practises & Principles	Spring	6
CSCI968	Network Security	Spring	6
CSCI981	Preliminary Topics in Computer Science B	n/o 2007	6
CSCI982	Preliminary Topics in Computer Science C	n/o 2007	6
CSCI983	Preliminary Topics in Computer Science D	n/o 2007	6
DES921	Creative Industries: Design for Interactive Multimedia	Spring	6
GHMD909	Comparative Health Systems: Policies and Politics	Spring	6
GHMD983	Statistics in Health Research	Spring	6
ITCS921	Database Design & Implementation	Autumn	6
ITCS922	Computer Security	Autumn	6
ITCS934	Software Process Management	Autumn	6
ITCS940	Multimedia Programming Foundations	Autumn	6
ITCS943	Game Design and Programming	Autumn	6

Any subject at 900-level from: BUSS, MATH, STAT, ECTE or TBS.

Any other 900-level subjects must be approved by the Head of School prior to commencing the subject.

Note that quotas may apply to TBS subjects offered at the Sydney Business School.

## Master of Information Technology Management

Testamur Title of Degree:	Master of Information Technology Management
Abbreviation:	MITM
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong/ offshore#
UOW Course Code:	1509
CRICOS Code:	031283E

# By request.

### Overview

The organisational challenge of introducing and managing information technology is daunting. Today's business requires IT strategic planning to be an integral part of the organisation's strategic plan.

This degree is aimed primarily at professionals who wish to progress upwards or broaden their career opportunities in the ICT industry, and covers both IT strategic planning and implementation and organisational management.

### Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree with at least a 60% average in an area related to ICT (eg Computer Science, Information Technology, Business Information Systems, Computer Engineering, Electrical Engineering, and Telecommunications Engineering).

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Applicants with a degree in any area plus at least one year full-time employment in the ICT industry will be considered. Students with an average mark of at least 60% in their three-year Bachelor degree, but with little or no background in IT, may be considered. Under special circumstances, applicants with other academic or professional qualifications, plus a minimum of five years full-time (or 10 years part-time) work experience in the ICT industry, may be considered by the Faculty.

## Course Requirements

Candidates must successfully complete eight subjects, including:

1. Four subjects from Group A; and
2. Four subjects from Group B.

Subjects	Session	Credit Points
<b>Group A</b>		
IAC901 IT Strategic Planning	Spring	6
IAC905 Information Technology and Innovation	Autumn	6
IAC906 Business On-Line	Spring	6
IAC916 Organisational Issues in Information Technology	Autumn	6
IAC917 Information Management	Autumn	6
IAC918 Corporate Network Management	Autumn	6
IAC919 On-line Information Services	Spring	6
IAC922 Case Studies in Information Technology Applications	Spring	6
IAC932 Special Topics in Information and Communication Technology B	n/o 2007	6
ITCS936 Detailed Design of Integrated Solutions for eBusiness	Spring	6
ITCS937 Security, Risk Management & Control in Electronic Commerce	Autumn	6
Or any other subject approved by the Head of School, prior to commencement.		
<b>Group B</b>		
BUSS952 Strategic Information Systems Management	Autumn	6
MARK901 Marketing on the Internet	Spring	6
TBS901★ Accounting for Managers	Autumn	6
TBS902★ Statistics for Decision Making	Autumn/Spring	6
TBS903★ Managing People in Organisations	Spring	6
TBS904★ Marketing Management	n/o 2007	6
TBS906★ Information Systems for Managers	Autumn	6
TBS908★ Supply Chain Management	Autumn	6
TBS920★ International Business Strategy	Autumn	6
TBS929★ Management of Process Innovation	n/o 2007	6
TBS950★ Quality in Management	Autumn/Spring	6
TBS981★ Employment Relations in an International Context	Autumn/Spring	6

Or any other subject approved by the Head of School, prior to commencement.

★Offered by the University of Wollongong Graduate School of Business. Start dates differ from the standard University Calendar. Quotas may apply to TBS subjects offered at the Sydney Business School.

## Credit Towards Other Courses

This degree articulates into the Master of Business Administration (MBA). Only a further seven subjects will be required to gain the MBA degree. For further information on the MBA, please refer to the Graduate School of Business and Professional Development.

## Graduate Certificate in Health Informatics

Testamur Title of Degree:	Graduate Certificate in Health Informatics
Abbreviation:	GCertHealthInfo
Home Faculty:	Informatics
Duration:	6 months (1 full-time session) or part-time equivalent
Total Credit Points:	24
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	N/A
CRICOS Code:	N/A

### Overview

This graduate certificate is designed as an early exit point from the Master of Health Informatics degree.

### Entry Requirements / Assumed Knowledge

Refer to Master of Health Informatics.

### Course Requirements

Students enrolled in the Master of Health Informatics may apply to graduate with the Graduate Certificate in Health Informatics after satisfactory completion of 24 credit points, which must include the three core subjects IACT917, ITCS929 and ITCS930, and one 6 credit point subject chosen from the electives listed for the Master of Health Informatics.

## Graduate Certificate in Industry-based Information Technology

Testamur Title of Degree:	Graduate Certificate in Industry-based Information Technology
Abbreviation:	GCertIIT
Home Faculty:	Informatics
Duration:	6 months (1 full-time session) or part-time equivalent
Total Credit Points:	24
Delivery Mode:	Modular face-to-face
Starting Session(s):	Negotiable
Location:	Wollongong/off-shore#†
UOW Course Code:	1140
CRICOS Code:	Not Applicable

# By request. † This program is not available to international students on-shore.

### Overview

This graduate certificate is designed as an early exit point from the Master of Industry-based Information Technology (MIIT) degree.

### Entry Requirements / Assumed Knowledge

Refer to Master of Industry-based Information Technology.

### Course Requirements

Students enrolled in the MIIT may apply to graduate with a Graduate Certificate in Industry-based Information Technology after satisfactory completion of 24 credit points, chosen from any combination of the following:

1. 6cp for Core Professional Development
2. ITCS949 Industry-based Information Technology Project (12cp)
3. Up to three Academic subjects (18cp) chosen from the subjects listed under the MIIT.

Arts
Commerce
Creative Arts
Education
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Graduate School of Business
Health & Behavioural Sciences
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# Graduate Certificate in Information and Communication Technology

Arts	Testamur Title of Degree:	Graduate Certificate in Information and Communication Technology
	Abbreviation:	GCertInfoTech
	Home Faculty:	Informatics
Commerce	Duration:	6 months (1 full-time session) or part-time equivalent
	Total Credit Points:	24
	Delivery Mode:	Face-to-face
	Starting Session(s):	Autumn/Spring
	Location:	Wollongong
Creative Arts	UOW Course Code:	1111
	CRICOS Code:	020196F

## Overview

This program introduces information and communication technology (ICT) concepts, and provides students with the opportunity to obtain the knowledge and skills required to effectively solve organisational, economic, regulatory and socio-technical problems that arise in the implementation and application of information technology (IT).

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree in an area related to ICT (eg, Computer Science; Information Technology; Business Information Systems; or Electrical, Computer or Telecommunications Engineering). Where academic qualifications are unrelated to the ICT discipline, it is essential that the applicant has relevant ICT work experience, normally at least one year full-time.

Applicants with other professional or academic qualifications not related to ICT (minimum duration 3 years full-time), plus a minimum of three years full-time work experience (or part-time equivalent) in the ICT industry, may be considered by the Faculty.

## Course Requirements

The degree requires satisfactory completion of 900-level subjects to the value of at least 24 credit points (4 subjects) chosen from the IACT Graduate Subjects List.

## Credit Towards Other Courses

Students who qualify for the Graduate Certificate in Information and Communication Technology and who have achieved an average mark of at least 60% will be able to proceed to the Master of Information and Communication Technology or Master of Information and Communication Technology Advanced. Advanced standing of 24 credit points will be granted towards these Masters degrees.

The completion of the Masters degree will require the satisfactory completion of a further 24 credit points as specified in the schedule for that program.

## Other Information

Prior to the conferring of a Master of Information and Communication Technology upon a candidate who holds a Graduate Certificate in Information and Communication Technology from this University, the candidate shall surrender the testamur and all rights relating to the Graduate Certificate.

# School of Mathematics and Applied Statistics

## Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Informatics
Duration:	3 years (6 full-time sessions) or part-time equivalent
Total Credit Points:	48 cp per year
Delivery Mode:	Supervised individual research
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	201
CRICOS Code:	001244E

### Overview

Doctor of Philosophy (PhD) candidates undertake in-depth research in order to make an original contribution to the body of knowledge in mathematical or statistical studies. This qualification can lead to, or enhance, an academic career and is highly regarded by private and public sector employers.

### Entry Requirements / Assumed Knowledge

A four-year Honours Bachelor degree in any relevant area of Mathematics or Statistics (Class II, Division 2 or higher); or a Master of Science – Research (Mathematics) or (Statistics) with a strong performance in the 48 credit point thesis, or equivalent.

### Course Requirements

This program is 100% by thesis (carrying weighting of 48 credit points per year). Students may be required to attend lectures in relevant topics on occasion throughout the program.

### Current Research Areas

#### Engineering and Applied Mathematics

Applied non-linear dynamical systems  
 Bioreactor engineering  
 Chemical reaction engineering  
 Combustion theory  
 Computational environmental fluid dynamics  
 Computational mathematics  
 Elasticity and fracture mechanics  
 Granular materials  
 Lie group analysis of non-linear differential equations  
 Microwave heating  
 Nanotechnology  
 Non-linear continuum mechanics including large elastic deformations of rubber-like materials  
 Non-linear waves  
 Oceanography  
 Rail development

Arts
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Science



Arts	<b>Statistical and Survey Methodology</b> e-Education Epidemiology Experimental design Goodness of fit																				
Commerce	Image analysis Multivariate analysis Neural networks Nonparametrics Quasi-likelihood																				
Creative Arts	Sample survey design, analysis and methodology Spatial statistics Statistical decision theory Statistical quality control Time series analysis																				
Education	<b>Mathematical Analysis</b> Algebra Analysis Harmonic analysis and wavelets Group theory																				
Engineering	Topology and chaos Logic and partial differential equations Topological groups Measure theory Number theory																				
Graduate School of Business	Functional analysis Combinatorial designs <b>Mathematical Finance</b>																				
Health & Behavioural Sciences	<b>Other Information</b> <p>It is possible to downgrade enrolment from a PhD to a Master of Science – Research, with the permission of the Head of School.</p>																				
Informatics	<b>Master of Science - Research (Mathematics)</b>																				
Law	<table> <tr> <td>Testamur Title of Degree:</td><td>Master of Science – Research</td></tr> <tr> <td>Abbreviation:</td><td>MSc-Res</td></tr> <tr> <td>Home Faculty:</td><td>Informatics</td></tr> <tr> <td>Duration:</td><td>1.5 years (3 full-time sessions) or part-time equivalent</td></tr> <tr> <td>Total Credit Points:</td><td>72</td></tr> <tr> <td>Delivery Mode:</td><td>Supervised individual research and face-to-face classes</td></tr> <tr> <td>Starting Session(s):</td><td>Autumn/Spring</td></tr> <tr> <td>Location:</td><td>Wollongong</td></tr> <tr> <td>UOW Course Code:</td><td>1304</td></tr> <tr> <td>CRICOS Code:</td><td>042542M</td></tr> </table>	Testamur Title of Degree:	Master of Science – Research	Abbreviation:	MSc-Res	Home Faculty:	Informatics	Duration:	1.5 years (3 full-time sessions) or part-time equivalent	Total Credit Points:	72	Delivery Mode:	Supervised individual research and face-to-face classes	Starting Session(s):	Autumn/Spring	Location:	Wollongong	UOW Course Code:	1304	CRICOS Code:	042542M
Testamur Title of Degree:	Master of Science – Research																				
Abbreviation:	MSc-Res																				
Home Faculty:	Informatics																				
Duration:	1.5 years (3 full-time sessions) or part-time equivalent																				
Total Credit Points:	72																				
Delivery Mode:	Supervised individual research and face-to-face classes																				
Starting Session(s):	Autumn/Spring																				
Location:	Wollongong																				
UOW Course Code:	1304																				
CRICOS Code:	042542M																				
Science	<b>Overview</b> <p>This program is designed to consolidate and expand students' knowledge at an advanced level in their area of interest in mathematics. The degree will provide students with the skills required for sound practice in mathematics research in preparation for doctoral level research.</p>																				

## Entry Requirements / Assumed Knowledge

This is primarily a research degree for those who have completed an Honours Bachelor degree at a standard of Class II, Division 2 or higher in Mathematics, or an equivalent Masters by coursework degree in Mathematics.

Entry from a relevant Pass Bachelors degree, or Pass Bachelor degree and Graduate Diploma, with a very good academic record is also possible.

## Advanced Standing

Candidates with an Honours Bachelor degree at a standard of Class II, Division 2 or higher, or an equivalent Masters by coursework degree, may be given exemption from all, or some, of the 24 credit points of coursework.

## Course Requirements

The degree is normally 72 credit points, consisting of a 48 credit point research thesis and 24 credit points of coursework. The program must be completed in a maximum time of two (2) years full-time (or four (4) years part-time) and requires satisfactory completion of the following:

1. 24 credit points of subjects chosen from the 900-level Mathematics subjects listed below, which together provide research skills and competencies required to complete a research project in Mathematics.
2. 48 credit point thesis.

The registration of a candidate will be subject to termination if that candidate fails subjects to the total value of 18 or more credit points.

Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Mathematics and Applied Statistics.

### 900-Level Mathematics Subjects

Subjects	Session	Credit Points
MATH902	Solution of Differential Equations by One-Parameter Groups	Autumn 6
MATH903	Mean Periodic Functions	n/o 2007 6
MATH904	Stability for Partial Differential Equations	n/o 2007 6
MATH905	Functional Analysis and Control Theory	n/o 2007 6
MATH912	Mathematics of Microwave Heating	Autumn 6
MATH913	Fluid Mechanics and Wave Theory	n/o 2007 6
MATH915	Applied Nonlinear Partial Differential Equations	n/o 2007 6
MATH916	Heat Conduction and Moving Boundary Problems	n/o 2007 6
MATH917	Advanced Numerical Analysis	n/o 2007 6
MATH918	Computational Fluid Mechanics	n/o 2007 6
MATH921	Advanced Functional Analysis	n/o 2007 6
MATH923	Measure and Integration	n/o 2007 6
MATH924	Distributions	n/o 2007 6
MATH925	Topics in Algebra	n/o 2007 6
MATH926	Logic and Set Theory	Spring 6
MATH927	Combinatory Logic	n/o 2007 6
MATH928	Advanced Measure Theory	n/o 2007 6
MATH929	General Topology	n/o 2007 6
MATH931	Statistical Behaviour in Dynamical Systems	Spring 6
MATH971	Advanced Topics in Applied Mathematics A	Autumn 6
MATH972	Advanced Topics in Applied Mathematics B	Autumn/Spring 6
MATH973	Advanced Topics in Pure Mathematics A	Autumn/Spring 6
MATH974	Advanced Topics in Pure Mathematics B	Spring 6
MATH980	Preliminary Topics in Mathematics A	Autumn 6
MATH981	Preliminary Topics in Mathematics B	Spring 6

Note: Subjects offered may vary each year. Check the subject database or contact the School for up-to-date subject information.

Arts
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Science

## Current Research Areas

For areas of research available to candidates undertaking the Master of Science – Research (Mathematics), please refer to Current Research Areas under the Doctor of Philosophy entry.

## Other Information

Before the award Master of Science – Research (Mathematics) is conferred on a candidate who holds a testamur of the University of Wollongong for the degree of Master of Mathematics; the candidate shall surrender the testamur and the corresponding rights to the degree of Master of Mathematics.

It is possible to upgrade enrolment from a Master of Science – Research to a PhD, in certain circumstances. Consult the following Research Student Centre website for details: [www.uow.edu.au/research/rsc/hdrhb/course-transfers.html](http://www.uow.edu.au/research/rsc/hdrhb/course-transfers.html)

## Master of Science - Research (Statistics)

Testamur Title of Degree:	Master of Science – Research
Abbreviation:	MSc-Res
Home Faculty:	Informatics
Duration:	1.5 years (3 full-time sessions) or part-time equivalent
Total Credit Points:	72
Delivery Mode:	Supervised individual research and face-to-face classes
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1304
CRICOS Code:	042542M

## Overview

This program is designed to consolidate and expand students' knowledge at an advanced level in their area of interest in statistics. The degree will further enhance the analytical and communication skills required by a professional statistician, as well as provide students with the skills required for sound practice in statistics research in preparation for doctoral level research.

## Entry Requirements / Assumed Knowledge

This is primarily a research degree for those who have completed an Honours Bachelor degree at a standard of Class II, Division 2 or higher in Statistics, or an equivalent Masters by coursework degree in Statistics.

Entry from a relevant Pass Bachelor degree, or Pass Bachelor degree and Graduate Diploma, with a very good academic record is also possible.

## Advanced Standing

Candidates with an Honours Bachelor degree at a standard of Class II, Division 2 or higher, or an equivalent Masters by coursework degree may be given exemption from all, or some, of the 24 credit points of coursework.

## Course Requirements

The degree is normally 72 credit points, consisting of a 48 credit point research thesis and 24 credit points of coursework. The program must be completed in a maximum time of two years full-time (or four years part-time) and requires satisfactory completion of the following:

1. 24 credit points of subjects chosen from the 900-level Statistics subjects listed below, which together provide research skills and competencies required to complete a research project in Statistics.
2. 48 credit point thesis.

The registration of a candidate will be subject to termination if that candidate fails subjects to the total value of 18 or more credit points.

Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Mathematics and Applied Statistics.

## 900-Level Statistics Subjects

Subjects	Session	Credit Points
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STAT901	Modern Inference	Autumn	6
STAT902	Advanced Data Analysis	Autumn	6
STAT903	Survey Design and Analysis	Spring	6
STAT904	Statistical Consulting	Spring	6
STAT905	Time Series	n/o 2007	6
STAT906	Experimental Design	n/o 2007	6
STAT941	Statistical Quality Control 1	n/o 2007	6
STAT942	Design and Analysis for Quality Control	n/o 2007	6
STAT944	Regression and Observational Studies	n/o 2007	6
STAT971	Preliminary Topics in Statistics A	Autumn	6
STAT972	Preliminary Topics in Statistics B	Autumn/Spring	6
STAT981	Advanced Topics in Statistics A	Autumn	6
STAT982	Advanced Topics in Statistics B	n/o 2007	6
STAT983	Advanced Topics in Statistics C	n/o 2007	6

Note: Subjects offered may vary each year. Check the subject database or contact the School for up-to-date subject information.

## Current Research Areas

For areas of research available to candidates undertaking the Master of Science – Research (Statistics), please refer to Current Research Areas under the Doctor of Philosophy entry.

## Other Information

Before the award Master of Science – Research (Statistics) is conferred on a candidate who holds a testamur of the University of Wollongong for the degree of Master of Statistics; the candidate shall surrender the testamur and the corresponding rights to the degree of Master of Statistics.

It is possible to upgrade enrolment from a Master of Science – Research to a PhD, in certain circumstances. Consult the following Research Student Centre website for details: [www.uow.edu.au/research/rsc/hdrhb/course-transfers.html](http://www.uow.edu.au/research/rsc/hdrhb/course-transfers.html)

## Master of Mathematics

Testamur Title of Degree:	Master of Mathematics
Abbreviation:	MMath
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	586
CRICOS Code:	012130B

## Overview

This program is designed to consolidate and expand the mathematics knowledge gained by a student in an undergraduate program and to develop skills in undertaking mathematical research projects.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree with a major in a relevant area of Mathematics, or equivalent. Applicants with a tertiary qualification containing a minimum of two (2) years of mathematics may be considered.

## Course Requirements

The degree will normally occupy two (2) sessions of full-time study or four (4) sessions of part-time study, and requires satisfactory completion of at least 48 credit points, as set out in the following course program.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

The registration of a candidate will be subject to termination if that candidate fails subjects to the total value of 18 or more credit points.

Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Mathematics and Applied Statistics.

## Course Program

Subjects	Session	Credit Points
MATH991 Project	Annual	12
Plus at least 36 credit points chosen from the following list, as approved by the Head of School:		
MATH902 Solution of Differential Equations by One-Parameter Groups	Autumn	6
MATH903 Mean Periodic Functions	n/o 2007	6
MATH904 Stability for Partial Differential Equations	n/o 2007	6
MATH905 Functional Analysis and Control Theory	n/o 2007	6
MATH912 Mathematics of Microwave Heating	Autumn	6
MATH913 Fluid Mechanics and Wave Theory	n/o 2007	6
MATH915 Applied Nonlinear Partial Differential Equations	n/o 2007	6
MATH916 Heat Conduction and Moving Boundary Problems	n/o 2007	6
MATH917 Advanced Numerical Analysis	n/o 2007	6
MATH918 Computational Fluid Mechanics	n/o 2007	6
MATH921 Advanced Functional Analysis	n/o 2007	6
MATH923 Measure and Integration	n/o 2007	6
MATH924 Distributions	n/o 2007	6
MATH925 Topics in Algebra	n/o 2007	6
MATH926 Logic and Set Theory	Spring	6
MATH927 Combinatory Logic	n/o 2007	6
MATH928 Advanced Measure Theory	n/o 2007	6
MATH929 General Topology	n/o 2007	6
MATH931 Statistical Behaviour in Dynamical Systems	Spring	6
MATH971 Advanced Topics in Applied Mathematics A	Autumn	6
MATH972 Advanced Topics in Applied Mathematics B	Spring	6
MATH973 Advanced Topics in Pure Mathematics A	Autumn	6
MATH974 Advanced Topics in Pure Mathematics B	Spring	6
MATH980 Preliminary Topics in Mathematics A	Autumn	6
MATH981 Preliminary Topics in Mathematics B	Spring	6

Or any other 900-level subjects offered by the School of Mathematics and Applied Statistics, as approved by the Head of School.

Note: Subjects offered may vary each year. Check the Subject Database or contact the School for up-to-date subject information.

In exceptional circumstances and subject to approval by the Head of the School, up to two 6 credit point subjects may be replaced by 900-level subjects of the same value offered by Units other than the School of Mathematics and Applied Statistics.

## Other Information

Students who satisfactorily complete the Masters degree are eligible to apply for entry to the Master of Science – Research (Mathematics).

# Master of Statistics

Testamur Title of Degree:	Master of Statistics
Abbreviation:	MStat
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	575
CRICOS Code:	016121D

## Overview

This program is designed to upgrade statistical skills, and to educate the candidate to undertake advanced statistical work in industry, commerce or government, including the ability to communicate effectively with the users of their skills.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree with a major in Statistics (or a Graduate Diploma in Statistics), or equivalent. Applicants with a tertiary qualification containing a minimum of two years of statistics may be considered.

## Course Requirements

The degree will normally occupy two (2) sessions of full-time study or four (4) sessions of part-time study, and requires satisfactory completion of at least 48 credit points, as set out in the following course program.

The registration of a candidate will be subject to termination if that candidate fails subjects to the total value of 18 or more credit points.

Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Mathematics and Applied Statistics.

## Course Program

Subjects		Session	Credit Points
STAT990	Minor Project	Autumn/Spring	6
or, with the approval of the Head of School, candidates may replace STAT990 with:			
STAT991	Project	Annual	12
Electives			
Plus at least 42 credit points (or 36 credit points if STAT991 is undertaken) chosen from the following list, as approved by the Head of School:			
STAT901	Modern Inference	Autumn	6
STAT902	Advanced Data Analysis	Autumn	6
STAT903	Survey Design and Analysis	Spring	6
STAT904	Statistical Consulting	Spring	6
STAT905	Time Series	n/o 2007	6
STAT906	Experimental Design	n/o 2007	6
STAT920	Stochastic Methods in Finance	Spring	6
STAT941	Statistical Quality Control 1	n/o 2007	6
STAT942	Design and Analysis for Quality Control	n/o 2007	6
STAT944	Regression and Observational Studies	n/o 2007	6
STAT971	Preliminary Topics in Statistics A	Autumn	6
STAT972	Preliminary Topics in Statistics B	Autumn/Spring	6
STAT981	Advanced Topics in Statistics A	Autumn	6

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Arts	STAT982	Advanced Topics in Statistics B	n/o 2007	6
	STAT983	Advanced Topics in Statistics C	n/o 2007	6
	Or any other 900-level subjects offered by the School of Mathematics and Applied Statistics, as approved by the Head of School.			

Note: Subjects offered may vary each year. Check the subject database or contact the School for up-to-date subject information.

In exceptional circumstances and subject to approval by the Head of the School, up to two 6 credit point subjects may be replaced by other 900-level subjects of the same or greater value.

## Other Information

Students who satisfactorily complete the Masters degree are eligible to apply for entry to the Masters of Science – Research (Statistics).

## Master of Financial Mathematics

Testamur Title of Degree:	Master of Financial Mathematics
Abbreviation:	MFinMath
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1548
CRICOS Code:	050301F

## Overview

To provide students with a first degree in areas such as mathematics, finance, economics, business, engineering or science with training in quantitative financial analysis and a range of analytical, statistical, computational and modelling skills needed for the formulation, implementation and evaluation of models in the financial sector to structure transactions, evaluate financial derivatives, manage risk and construct investment strategies.

## Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree with a major in mathematics or statistics.

Applicants with other three-year degrees will be considered if they possess a substantial background in mathematics (including calculus, linear algebra, differential equations, probability and statistics) equivalent to at least a second-year Bachelor level.

## Course Requirements

The degree will normally occupy two (2) sessions of full-time study or four (4) sessions of part-time study, and requires satisfactory completion of at least 48 credit points, as set out in the following course program.

## Course Program

Subjects	Session	Credit Points
FIN920	n/o 2007	6
FIN921	Autumn/Spring	6
FIN928	Spring	6
MATH941	Autumn	6
MATH942	Spring	6
MATH943	Annual	0
STAT920	Autumn	6
STAT921	Spring	6

Plus one STAT and one FIN subject chosen from:

STAT922	Statistical Inference & Multivariate Analysis	Spring	6
STAT923	Applied Probability & Financial Risk	Autumn	6
FIN922	Advanced Investment Analysis	Autumn	6
FIN923	Advanced Portfolio Management	Spring	6

## Graduate Diploma in Statistics

Testamur Title of Degree:	Graduate Diploma in Statistics
Abbreviation:	GDipStat
Home Faculty:	Informatics
Duration:	1 year (2 full-time sessions) or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	665
CRICOS Code:	001251F

### Overview

This program is intended for students with limited or no background in statistics but who have the equivalent of first year mathematics. Students can update or improve their statistical skills to Bachelor level and gain entry to the Master of Statistics program.

### Entry Requirements / Assumed Knowledge

A degree equivalent to a three-year Australian Bachelor degree, which must include the equivalent of first-year mathematics.

### Course Requirements

The graduate diploma will normally occupy two (2) sessions of full-time study or four (4) sessions of part-time study, and requires the satisfactory completion of at least 48 credit points, with the following requirements:

1. At least 36 credit points are to be chosen from those subjects listed in the Bachelor of Mathematics and Master of Statistics course structures, including at least 24 credit points of 300-level or 900-level subjects.
2. Candidates are not to include subjects which, in the opinion of the Head of School, are equivalent in content to those for which credit has already been obtained towards some other degree or diploma.
3. The chosen program is to be approved by the Head of School prior to enrolment.

### Other Information

Students who satisfactorily complete the Graduate Diploma are eligible to apply for entry to the Master of Statistics.

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# SUBJECT DESCRIPTIONS

## CSCI907 Corba and Enterprise Java

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: CSCI407

**Subject Description:** This subject introduces students to the 'enterprise level' computing environments - Corba, and Enterprise Java Beans. It will also provide a more limited overview of general 'web services' and related technologies. The emphasis is practical with students developing Corba applications with Java clients and C++ servers, and later creating and deploying complete EJB systems.

## CSCI910 Formal Methods in Software Engineering

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to formal methods for software specification. The role of formal methods in the software development process is explained and investigated. The subject uses the Z notation as an example of a formal specification technique and introduces software tools for the creation and manipulation of Z specifications. Case studies of safety-critical and real-time systems are used as a basis for a study of the application of formal specification techniques. Topics will include: Introduction to formal approaches to design and specification, Review of mathematical foundation for formal methods, use of assertions and proof, analysis and verification of specification and design, disciplined approaches to design change, Z notation and its related software tools.

## CSCI918 Software Engineering Practices & Principles

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: MCS9318, CSCI318, CSCI925

**Subject Description:** This subject examines the current state of software engineering both as an academic discipline and as a profession. The subject focuses on issues of requirements engineering, system procurement, and professional practice, and through case studies, the subject considers reasons for the failure and success of various software engineering projects. Topics which may be covered include: Requirements Elicitation, Functional and Non-Functional Requirements, Design Patterns and Refactoring, Reverse Engineering, Software Quality Assurance, Analysis and Verification of Specification and Design, Examples of Formal Techniques in Software Engineering.

## CSCI925 Topics in Software Engineering

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: CSCI425, CSCI918

**Subject Description:** This subject examines the current state of software engineering both as an academic discipline and as a profession. The subject focuses on issues of requirements engineering, system procurement, and professional practice, and through case studies, the subject considers reasons for the failure and success of various software engineering projects.

## CSCI941 Advanced Topics in Computer Science A

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.

## CSCI942 Advanced Topics in Computer Science B

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.

## CSCI943 Advanced Topics in Computer Science C

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.

## CSCI944 Perception and Planning

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject explores ways in which a robot can combine data from variety of sensors to create or update a model of its environment, and then use this model to infer the consequences of proposed actions. The subject will cover the use of internal sensors, such as those measuring odometry and location, and external sensors including those for touch, vision, and range finding.

## CSCI945 Parallel Computing

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject presents different approaches to the construction of parallel algorithms and computer architectures. Both theoretical and practical aspects are covered, emphasis is placed on identifying the suitability of the approaches for specific applications.

**CSCI946 Multimedia Studies**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject studies the creation and programming of digital media for multimedia applications. Multimedia systems combine images, graphics, sound and text to interactively communicate information. Each of these media has its own standards, algorithms and file formats. The foundations strand examines the principles of how media is created. The programming strand explores the programming of multimedia applications, using a multimedia applications such as QuickTime for Java. The practical strand explores the acquisition, encoding and editing of digital video and audio with professional tools, such as Final Cut Pro.

**CSCI957 Advanced Topics in Database Management***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject covers two advanced topics from modern database management systems: object-oriented databases and transaction management in database systems. Topics include details such as design and implementation of object-oriented database systems, hybrid transaction management, optimistic transaction management, nested transactions, management of long transactions, and management of transaction in distributed systems.

**CSCI963 Advanced Computer Graphics**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** In this subject students will learn how to use graphics techniques such as ray tracing and radiosity to produce highly realistic images with features such as shadows, reflection, refraction, texturing, penumbras and motion blur. The rendering algorithms and their underlying mathematics are covered with a practical component being the implementation of a ray tracer. Applications including scientific visualisation are also covered.

**CSCI964 Neural Computing**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject introduces students to the basics of 'soft' computing. Primary focus will be on artificial neural networks, with some attention also given to genetic algorithms, (evolutionary computing), fuzzy logic and neurofuzzy expert systems. These approaches will be compared and contrasted with heuristic, rule-based artificial intelligence methods, such as decision trees and case-based reasoning. Several application areas will be discussed, primarily pattern recognition and/or classification.

**CSCI965 Design and Analysis of Algorithms**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** The objective of this subject is to develop the knowledge, skills and techniques for designing and analysing algorithms. Topics to be studied include: review of standard algorithm designs including divide and conquer, the greedy method, etc; complexity analysis and comparison of algorithms, number theoretical algorithms

**CSCI966 Coding for Secure Communication**

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject provides a fundamental understanding of information protection and efficient coding strategies that can be used to ensure correctness, security and authenticity of data. It uses entropy as the universal measure of information to analyse and explore fundamental bounds on the performance of secure and reliable storage and communication systems, and examine a range of coding schemes that form the main building blocks of such systems. It will include the following topics. i) redundancy in data and compression algorithms ii) efficient error control strategies for secure and reliable communication and storage systems; iii) coding methods for secrecy and authenticity.

**CSCI967 Complexity Theory***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** The subject introduces basic concepts of complexity theory. Topics include NP-completeness and NP-hardness, Cook's theorem and its implications concepts of indistinguishability and pseudorandomness, interactive proof systems and zero-knowledge protocols.

**CSCI968 Network Security**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject provides a survey of network security technologies and explores them in practice. This includes but not limited to, network-based threats, security failure in cryptographic and network protocols, authentication servers, certificates and public-key infrastructure, security provisions in communication protocols and standards, electronic mail security, firewalls and intrusion detection systems.

**CSCI971 Computer Security**

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject provides a review of computer security. Topics include: digital signatures, elliptic curve cryptography, El Gamal public key

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Arts	methods, the Advanced Encryption Standard (AES), Security Standards, Security Evaluation Standards, Linear Cryptanalysis, Differential Cryptanalysis.
Commerce	<b>CSCI974 Systems Analysis</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject concentrates on the analysis and design stages of the software implementation process. It provides students with an understanding of the engineering issues related to the initial implementation of a specified system and to the problems of long term maintenance and evolution. Dataflow, entity-relationship, object models and other design approaches are reviewed. Case studies include projects in the real time area.
Creative Arts	<b>CSCI981 Preliminary Topics in Computer Science B</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.
Education	<b>CSCI982 Preliminary Topics in Computer Science C</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.
Engineering	<b>CSCI983 Preliminary Topics in Computer Science D</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.
Graduate School of Business	<b>CSCI991 Project</b> Annual      Wollongong      On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject involves undertaking a project. Where possible the projects are related to the research interests of the School and/or staff and are chosen to develop the student's research skills.
Health & Behavioural Sciences	<b>DESN921 Creative Industries: Design for Interactive Multimedia</b> Spring      Wollongong      On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: Not to count with DESN129. <b>Subject Description:</b> This subject provides
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an introduction to design fundamentals and the values of visual design to interactive multimedia production. Students will explore formal composition principals, application of type and image, and approaches to digital layout. Within a framework of weekly lectures and tutorials, students will be required to undertake research and develop design concepts and solutions to set project briefs.

### ECTE901 Multimedia Signal Processing

Autumn      Wollongong      On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE401

**Subject Description:** The aim of this subject is to extend the digital signal processing knowledge gained in undergraduate courses. The contents consist of applying digital signal processing to practical applications including speech, audio, image and video processing and current research developments in these areas.

### ECTE902 Stochastic Signal Processing

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE402

**Subject Description:** The aim of this subject is to provide students with a basic understanding of design and analysis of stochastic and adaptive signal processing algorithms. Topics covered include: random variables, signals and vectors, correlation and covariance matrices and their properties, autoregressive (AR), moving average (MA) and autoregressive moving average (ARMA) signal models, whitening filter and innovation process, modern power spectrum estimation techniques including parametric methods, minimum variance spectral estimation, and eigenanalysis algorithms (MUSIC and ESPRIT), linear prediction, maximum likelihood and MSE estimation, Wiener and Kalman filters, the LMS algorithm and adaptive filtering and current research developments in these areas.

### ECTE903 Image and Video Processing

Spring      Wollongong      On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE403

**Subject Description:** The aim of this subject is to extend digital signal processing knowledge gained in undergraduate courses. The contents will consist of: applying digital signal processing in image and video processing applications, including current research developments.

### ECTE904 Adaptive Signal Processing

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE404

**Subject Description:** The aim of this subject is to extend digital signal processing knowledge gained in undergraduate courses. The contents will consist of:

applying digital signal processing in adaptive signal processing (echo cancellation, channel equalisation, etc.) applications, including current research developments.

### ECTE905 Speech and Audio Processing

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE405

**Subject Description:** The aim of this subject is to extend the digital signal processing knowledge gained in undergraduate courses. The contents will consist of: applying digital signal processing in speech and audio processing applications, including current research developments.

### ECTE906 Advanced Signals and Systems

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject deals with the analysis, modelling and simulation of multiple-input multiple-output linear and stochastic systems using the state-space approach. It covers linear spaces and linear operators, vector representation of signals, linear transformations, mathematical description of continuous-time and discrete time systems, impulse-response and transfer-function matrices, fundamental and state transition matrices, review of probability and random variables concepts, mathematical description of random signals, and response of linear systems to random signals.

### ECTE911 AC-Sourced Power Electronics

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ELEC912/ECTE411

**Subject Description:** Topics covered in this subject include: ac-sourced power electronics devices and their main applications, ac to dc power conversion and its industrial applications, ac voltage controllers, high power conversion in electric power utilities, harmonics and current research developments.

### ECTE912 Power Electronics and Drives

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE412, ECTE925

**Subject Description:** The aim of this subject is to provide students with an understanding of power conversion circuits using modern power switching devices and their application to equipment supplies and the control of electric drives. Topics covered include: power switching devices and their application, dc-dc converters, ac-dc converters, including switch-mode power supplies, dc-ac conversion using inverters, methods of pulse width modulation, selection of motors for industrial applications, and the design of closed loop speed control systems for dc and ac motors and current research developments in these areas.

### ECTE913 Micro-Electronics

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE413

**Subject Description:** The aim of this subject is to extend the electronics knowledge gained in undergraduate courses. Topics covered will include: theory of operation of BJT and FET devices; the use of FET devices in analogue and digital circuits; CMOS logic family; oscillators; high frequency amplifiers; VLSI design techniques; gate arrays; programmable logic devices; memory cells and current research developments. The practical component will consist of using Electronics Simulation Packages to (a) model circuits and examine their behaviour; (b) perform a logical design, (c) program the design into a programmable device and test its performance.

### ECTE921 Power Quality

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ELEC970/ECTE421

**Subject Description:** This subject will study the different types of systems which can propagate in the electric power supply, their origins and their effects on sensitive equipment such as computers, telecommunications systems, PLCs and variable speed drives. The disturbances include harmonics, voltage sags, capacity switching transients, voltage unbalance, etc. Topics discussed will include: the ability of equipment to emit disturbances, its susceptibility, industry standards; design techniques to ensure standards are met; and current research developments.

### ECTE922 Power Quality Monitoring

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE422

**Subject Description:** This subject will treat measurement techniques and waveform interpretation relevant to the operation of sensitive equipment with a non-ideal power supply. The different types of waveform disturbances and their characterisation will be discussed, such as harmonics, inter-harmonics, flicker and voltage sag. Relevant standards for signal analysis will be examined and their approach justified. There will also be a treatment of transducers and current research developments will be included.

### ECTE923 Power System Analysis

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE423/ECTE924

**Subject Description:** The aim of this subject is to provide students with an understanding of the advanced techniques required for power systems calculations and analysis. Topics covered in this subject include: an introduction to power systems comprising thermal and hydro power stations, transmission lines and

Arts	
Commerce	
Creative Arts	
Education	
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

Arts	<p>distribution systems, computer applications in power systems planning, design, control and operation, review of basic analysis tools, reactive power management, load flow and fault analysis, and transient stability and current research developments in these areas.</p>	<p>periodic tasks, non pre-emptive scheduling, intractability results, resource allocation, hybrid real-time/non-real-time models, distributed real-time systems, fault tolerant systems and current research developments in these areas.</p>
Commerce	<p><b>ECTE924 Power System Abnormalities</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  Exclusions: ECTE424  <b>Subject Description:</b> Topics covered include: reliability concerns, insulation requirements and protection methods of energy systems. The design aspect of energy systems for reliable and economical energy supply, internal and external overvoltage protection of energy systems and terminal equipment, stability limits of energy systems; the application of electromagnetic transient programmes (EMTP) for insulation co-ordination and current research developments will be discussed.</p>	<p><b>ECTE932 Computer Systems</b>  Spring Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  Exclusions: ECTE432  <b>Subject Description:</b> The aim of this subject is to provide students with the knowledge of current computer architecture and the skill to design and interface an RISC processor. The topics covered include processor data path and control, CPU architecture, performance issues, enhancing performance through pipelining, memory hierarchy, Cache, DMA, Buses and other connections, interfacing I/O devices and I/O performance measurements and current research developments in these areas.</p>
Creative Arts		
Education	<p><b>ECTE925 Industrial Drives and Actuators</b>  <i>Not on offer in 2007</i>  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  Exclusions: ELEC928/ECTE425  <b>Subject Description:</b> Topics covered in this subject include: selection of dc, ac motors (induction and/or permanent magnet) and actuators for industrial applications and the design of closed loop speed control systems for dc and ac motors, including current research developments. In ac motor control, field orientation will be given particular emphasis.</p>	<p><b>ECTE933 Embedded Systems</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  <b>Subject Description:</b> The subject will examine the key properties of software, firmware, and hardware systems in the embedded, resource constrained, mobile, and highly distributed world. It will explore topics, including embedded processors instruction sets, performance and power consumption, the embedded computing platform, program analysis and design, embedded processors and operating systems, hardware accelerators, networks for embedded systems, and systems-on-silicon and current research developments in these areas.</p>
Engineering		
Graduate School of Business	<p><b>ECTE926 Power Distribution Systems</b>  Spring Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  Exclusions: ECTE426  <b>Subject Description:</b> The aim of this subject is to provide students with an understanding of the design concepts and operation of electrical power distribution systems relevant to the electrical utility industry and industrial plants containing large power distribution applications. Topics covered in this subject include: an introduction to distribution system planning and automation, load modelling and calculations, system equipment modelling and selection, protection and insulation coordination, power quality and system load interaction, design of radial systems, voltage control, capacitor applications, earthing and reliability and current research developments in these areas.</p>	<p><b>ECTE941 Intelligent Control</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  Exclusions: ELEC943/ECTE441  <b>Subject Description:</b> This subject will review the latest control techniques used where the system is poorly known or changing with time or conditions. Methods examined in detail may include: fuzzy systems, neural networks, adaptive control, crisp and neuro fuzzy control and current research developments in these areas.</p>
Health & Behavioural Sciences		
Informatics		
Law	<p><b>ECTE931 Real-Time Computing</b>  Autumn Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  Exclusions: ECTE431  <b>Subject Description:</b> Requirements and specification methods in real time systems, software design, development and testing cycle, timing analysis of real-time systems, classical problems, pre-emptive scheduling of</p>	<p><b>ECTE942 Computer Controlled Systems</b>  Spring Wollongong On Campus  <b>Credit Points:</b> 6  <b>Pre-requisites:</b> None  <b>Co-requisites:</b> None  Exclusions: ECTE442  <b>Subject Description:</b> This subject provides the knowledge and skills required to model, analyse and design computer controlled systems in the z-domain and discrete-time. The contents will consist of: discrete time state space modelling of systems, stability analysis in state space, controllability and observability, pole placement design and state feedback, state observer design and predictive control and current research developments in these areas.</p>
Science		



**ECTE943 Digital Control***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

Exclusions: ELEC943/ECTE443

**Subject Description:** This subject provides the knowledge and skills required to model, analyse and design computer controlled systems in the z-domain. The contents will consist of: Impulse sampling, stability analysis in the Z-domain, root locus analysis and design in the Z-domain, W-transformation, frequency response analysis and design in the Z-domain and current research developments.

**ECTE944 Identification and Optimal Control***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

Exclusions: ELEC944/ECTE444

**Subject Description:** The subject provides the knowledge and skills required to identify the model of a system and optimise its performance. The contents will consist of: system identification using the least square method and quadratic performance index; quadratic optimal control; Kalman filters; and applications of genetic algorithms in system identification and optimal control, including current research developments.

**ECTE945 Advanced Intelligent Control***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

Exclusions: ECTE941

**Subject Description:** The aim of this subject is to provide students with the knowledge and skills required to model, analyse and design a system using intelligent methods. The contents will consist of: introduction to fuzzy systems, introduction to artificial neural network, crisp fuzzy control systems, adaptive fuzzy control systems, and neuro-fuzzy control systems. Students will be required to undertake an advanced project involving current research developments.

**ECTE946 Advanced Computer Controlled Systems***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

Exclusions: ECTE942

**Subject Description:** The aim of this subject is to provide students with the knowledge and skills required to model, analyse and design computer controlled systems in the z-domain. The contents will consist of: Discrete time state space modelling of system, stability analysis in state space, controllability and observability, pole placement design and state feedback, state observer design. Students will be required to undertake an advanced project involving current research developments.

**ECTE953 Advanced Project**

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 12**Pre-requisites:** A WAM of 72.5% for 24 credit points of 900-level including ECTE955.**Co-requisites:** 36 credit points at 900-level

Exclusions: ELEC953

**Subject Description:** The aim of this subject is to provide an opportunity for students to undertake a major engineering project and develop their initiative. ECTE953 Advanced Project requires students to work on individual projects that may involve some background reading and analysis, the development of hardware, the development of software, or an experimental program. Where possible the projects are related to the research programs of the School and are chosen to develop the student's initiative. It will involve weekly tutorial sessions; the presentation of seminars; and writing of reports. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

**ECTE955 Advanced Laboratory**

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

Exclusions: ELEC955

**Subject Description:** The aim of this subject is to provide students with an opportunity to apply and verify theory in areas associated with the postgraduate programs through laboratory experiments and computer studies. Students will be expected to design, and perform experiments; analyse results; and write reports on projects selected to illustrate practical issues selected from the two postgraduate programs.

**ECTE956 Internet Technology Laboratory**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** ECTE991

**Subject Description:** This subject consists of a series of experiments, during which the students (working individually or in small groups) become familiar with recent technological developments related to the Internet and its applications. Because the experiments are current 'hot topics' in Internet technology, they will be updated regularly to include recent developments. These will include wireless networking, multimedia applications, remote control and operation, etc.

**ECTE957 Advanced Internet Project**

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 12**Pre-requisites:** A WAM of 72.5% for the full-time first session load (i.e., four six credit point subjects, including ECTE956 Internet Project and ECTE991 Internet Fundamentals).**Co-requisites:** ECTE991

**Subject Description:** The aim of this subject is to provide an opportunity for students to undertake a major technology project and develop their initiative. ECTE957

Arts	
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Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

Arts	Advanced Internet Project requires students to work on individual projects that may involve some background reading and analysis, the development of hardware, the development of software, or an experimental program. Where possible the projects are related to the research programs of the School and are chosen to develop the student's initiative. It will involve weekly tutorial sessions; the presentation of seminars; and writing of reports. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.
Commerce	
Creative Arts	<b>ECTE958 Advanced Mechatronics Laboratory</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ECTE955 <b>Subject Description:</b> The aim of this subject is to provide students with an opportunity to apply and verify theory through mechatronics laboratory experiments and computer studies. Students will be expected to design, and perform experiments; analyse results; and write reports on projects related to mechatronics activities within the research programs.
Education	
Engineering	<b>ECTE961 Telecommunications Queueing Theory</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ELEC960/ECTE461 <b>Subject Description:</b> The aim of this subject is to provide students with telecommunication engineering skills including analysis of delay and loss queueing systems, undertake Markov modelling and analysis, and calculate blocking probabilities of telephone switching equipment. Topics covered will include: queueing theory, Markov chain analysis, throughput and congestion analysis, Erlang and Engset distributions, blocking probability, overflow traffic and current research developments.
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	<b>ECTE962 Telecommunications System Modelling</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ECTE462 <b>Subject Description:</b> The aim of this subject is to provide students with telecommunication engineering skills including skills to analyse and dimension telephone exchanges, trunk lines, Internet switches and circuit and packet switched networks. Topics covered will include: telephone and data networks and systems, mixed voice and data queueing systems, optimal capacity allocation, direct and alternate routing and current research developments.
Law	
Science	<b>ECTE963 Transmission Systems</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ELEC962/ELEC980/ECTE463 <b>Subject Description:</b> Topics covered include:

Maxwell's equations, wave propagation in transmission lines, the Smith chart, wave guides, optical fibres and current research developments. The aim of this subject is to provide methods of characterising distributed passive transmission media such as transmission lines, wave guides, and fibre optics.

### ECTE964 Antennas and Propagation

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ELEC962/ELEC983/ECTE464

**Subject Description:** Topics covered include: wave propagation in the air, signal radiation, antennas and current research developments. The aim of this subject is to provide methods of characterising antenna systems for use in communications.

### ECTE965 Wireless Communication Systems

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE964, ECTE966, ECTE967

**Subject Description:** The aim of this subject is to provide students with an understanding of the systems used in wireless communications. Topics covered include: the regulatory environment, electromagnetism fundamentals, antennas and antenna systems, near earth propagation, the multi-path propagation environment, multi-user communications in wireless systems, Medium Access Control and mobility management mechanisms and current research developments in these areas. Case studies will also be undertaken.

### ECTE966 Spread Spectrum Communications

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE466

**Subject Description:** The aim of this subject is to teach students the theory and highlight the major problems involved in application of spread-spectrum communications. The contents will consist of: basic spread-spectrum techniques, principles of code division multiple access (CDMA), design of spreading sequences, detection techniques for CDMA and current research developments. The taught concepts will be illustrated by examples of existing spread-spectrum communication systems.

### ECTE967 Mobile Networks

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ECTE467

**Subject Description:** The aim of this subject is to provide students with the knowledge to evaluate current and emerging mobile networks. Topics covered will include: analogue and digital mobile networks, roaming in mobile networks, GSM standards and principles, GSM network structure, call hand-over analysis, mobility in the Internet, emerging third generation mobile networks and current research developments.





Arts	<b>ECTE983 Computer Networking</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ELEC969/ECTE483 <b>Subject Description:</b> The aim of this subject is to provide students with an understanding of the techniques that are used to provide communication between computer systems. Topics covered will include: modems, addressing, routing, interworking, congestion control in computer networks and current research developments.	<b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ECTE485 and ECTE985 <b>Subject Description:</b> The aim of this subject is to provide an overview of the Internet at a system level. In other words, the subject will provide an operational description of the Internet and its main components. The following topics will be covered: Internet evolution and current status, generic network infrastructure and configuration, layered communication architectures and protocols, access technologies, Internet security and management, case studies of Internet applications.
Commerce		
Creative Arts	<b>ECTE984 Network Design and Analysis</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ECTE484 <b>Subject Description:</b> The aim of this subject is to provide students with the engineering skills to analyse multi-service packet switched networks and systems. Topics covered will include: simulation and numerical techniques in queueing, software tools for analysis of queueing systems and networks, queueing performance analysis of Internet, ATM and mobile multi-service networks, and current research developments.	<b>ECTE992 Internet Networking Protocols</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> ECTE991 <b>Subject Description:</b> This subject will provide students with an understanding of protocols used in computer networks with a particular focus on Internet networks. Topics to be studied will include: LAN medium access control protocols, congestion/flow/error control, routing, addressing, internetworking; design and operation of the Internet (including IPv4 & 6, OSPF, BGP, Mobile IP, CIDR, TCP and UDP, MPOA, and MPLS) quality of service provisioning (such as RSVP, RTP, IETF DiffServ) and current research developments.
Education		
Engineering	<b>ECTE985 Internet Communications</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ELEC969/ECTE485 <b>Subject Description:</b> The aim of this subject is to provide students with an understanding of the techniques that are used to provide communication between computer systems. Topics covered will include: layered protocol architectures, circuit and packet switching, asynchronous and synchronous transmission, coding, error detection and correction, flow control and current research developments.	<b>ECTE993 Wireline and Optical Communications</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> ECTE991 <b>Subject Description:</b> This subject will provide a detailed overview of wireline internet access networks and fibre optic techniques. The following topics will be covered: wireline access technologies, high speed modems, xDSL technology for broadband internet access using existing copper loop, cable modem technology, optical fibre technology (including fibre to the home and curb options), optical fibre link design considerations, WDM, optical standards and optical switching techniques.
Graduate School of Business		
Health & Behavioural Sciences		
Informatics	<b>ECTE986 Telecommunications Network Management</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ELEC965/ECTE486 <b>Subject Description:</b> The aims of this subject are to provide students with an understanding of the technical issues of telecommunications management, to provide practical hands-on experience of network configuration and management systems and to make students aware of economic, management and political issues in telecommunications management. Topics covered will include: private and public communications systems; LANs and SNMP; integration of voice, data and video in networks; general management issues; international standards; and current research developments.	<b>ECTE994 Wireless and Mobile Communication Systems</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> ECTE991 Exclusions: ECTE465/466 and ECTE965/966 <b>Subject Description:</b> The aim of this subject is to provide a detailed overview of wireless and mobile communication systems. The following topics will be covered: mobile radio channel characterisation, channel access techniques, basic spread-spectrum techniques, principles of code division multiple access (CDMA), digital mobile networks (including, GSM and third generation mobile networks). As a special case study, this subject will cover in detail the IEEE 802.11 wireless data network standard and its effective use in a campus environment for Internet access.
Law		
Science	<b>ECTE991 Internet Fundamentals</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 6	

### ECTE995 Content Servers and Caching Technologies

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** ECTE991

**Subject Description:** The aim of this subject is to provide a detailed overview of content servers and cache technology. The following topics will be covered: content server technology (including the different classes RADE systems) and their comparative performance in terms of functionality, cost and reliability; analyse selection criteria for content servers given a functional specification; caching technology, analyse best practice cache dimensioning and selection guidelines.

### ECTE996 Multimedia Communications

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** ECTE991

**Subject Description:** The aim of this subject is to provide a detailed overview of multimedia communication systems. The following topics will be covered: image and video coding, motion picture expert group (MPEG) and JPEG standards and their functionality, speech and audio coding, speech and audio coding standards for internet applications (Internet telephony), universal multimedia access (UMA) and MPEG 7.

### ECTE997 Web Technology and Applications

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** ECTE991

**Subject Description:** The aim of this subject is to provide a detailed overview of web technologies and applications. The following topics will be covered: real-time streaming technologies, embedded Internet devices, web-based intelligent agent technology, web-application case studies (such as distance and flexible delivery of multimedia education, meta catalogue services etc).

### GHMD983 Statistics in Health Research

Spring Wollongong On Campus

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Introduces basic statistical concepts and methods. Topics covered: collecting data, designing statistical studies, principles of data presentation; exploratory data analysis, probability and statistical models emphasising binomial and normal distributions; categorical data, contingency tables and the Chi-squared distribution; sampling, sample means and the central limit theorem; inference - point estimation, confidence intervals, testing hypotheses; inference about single parameters; comparing means and proportions, analysis of variance, demography.

### IACT901 IT Strategic Planning

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject is essentially about the application of technology for competitive advantage. Throughout the subject, the spotlight will be trained on techniques and frameworks for 'thinking strategically about a company's technological orientation'. A wide spectrum of business and technology issues will be covered that address the problems and issues surrounding the analysis and development of an IT strategic plan.

### IACT902 Applied Project Management

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject deals with the efficient management of a medium size project to ensure that a project meets deadlines and is within its budget. It covers the process of planning, directing and controlling the development of an IT project. Topics covered will include project management tools, software and techniques; expectations management matrices; and use of people management (the subtle art of delegation and accountability). Students will test the principles on the plan, design and implementation of a medium size project.

### IACT904 International Telecommunications Policy Issues

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** IACT 904 provides students with an understanding of the policy issues relating to the emergence of political, economic and technological change in international telecommunications. The interdisciplinary foundations of telecommunications policy are examined. Issues in the development of telecommunications policy in Australia and overseas are reviewed as well as the regulatory frameworks adopted by different countries (eg. Australia and the United States) and regions (eg. European Union and South East Asia).

### IACT905 Information Technology and Innovation

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** IACT 905 provides students with an understanding of the various political, economic, social and technical factors surrounding information technology and the innovation process. This subject addresses key themes such as: the importance of innovation to the economy and the firm; the links between information, information technology and innovation; and, the development of effective national policies to promote industrial innovation.

### IACT906 Business On-Line

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject aims to provide students with an understanding of e-business in the

Arts
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Science

Arts	context of today's global business environment. Today most businesses compete in a global environment; a sound business strategy for on-line business is essential to facilitate this. This subject covers key areas of e-business, including: Strategy formulation and implementation; e-branding; service leadership; economics and industry impacts of e-business and Internet effectiveness.
Commerce	<b>IACT916 Organisational Issues in Information Technology</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Effect on organisational information flows of growth in size and complexity: the management and technological response; information technology as a catalyst in codifying work procedures and creating new organisational structures; hierarchical versus horizontal approaches to information management; implications of broad-band networks for traffic integration.
Creative Arts	
Education	<b>IACT917 Information Management</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject focuses on the importance of information as a resource, on which the knowledge base of successful organisations is dependent. While the main focus of the subject is information management within the organisation, a broader context is important. National and international issues relating to information access will be addressed. These include: standards relating to electronic storage and retrieval of electronic documents (digital archiving); legal protection for information as an economic good (for example as patents, copyright and other forms of intellectual property); and social and ethical issues (eg privacy and security) relating to information management.
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	<b>IACT918 Corporate Network Management</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject investigates the documentation and management of telecommunications networks. Topics to be covered include 1. Documenting the Network: requirements capture and specification, functional specification, design specification, documenting the network configuration 2. Managing the Network: influences on the network, management architectures and standards, performance management, fault management, disaster management, managing changes in a network, cost minimisation management 3. Corporate and Regulatory Requirements: management teams, operations and support, standards and protocols.
Informatics	
Law	
Science	<b>IACT919 Online Information Services</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject examines the emergence of electronic information supermarkets and

the changes in ownership that have taken place within the online information industry as mass media conglomerates have entered the field. Other aspects covered include: the role of government in the development of online databases and networks; the creation of 'value-added' products through re-formatting, marketing and electronic delivery of information; the future of public information sources such as libraries and government data collection and publication agencies in a changing online environment; and the potential of network developments in the delivery of online information resources. Students will be required to use some electronic information services including Australian and International databases and other online information resources.

### IACT922 Case Studies in Information Technology Applications

Spring Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** IACT922 examines leading edge technological developments and the issues arising from the innovative uses of such technology. This subject covers innovative and new applications of information technology to create services and systems, eg electronic banking, video conferencing, multimedia, EDI and CD-ROM. In order to provide a thorough background and understanding of an application, normally only one case will be studied in the subject in any one semester. Cases that may be covered include, multimedia, EDI, EFTPOS, use of IT in supply chain optimization, management and execution or Location- Based Services (LBS). Subject content will engage students at different levels of understanding from strategic to technical.

### IACT924 Corporate Network Design & Implementation

Spring Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** The subject investigates the design and implementation of a telecommunications network plan. Topics to be covered include (1) The Need for Planning and the Planning Process: planning teams, strategic planning, the network plan, security planning and implementation planning. (2) The Design Process: design teams, translating the plan into design criteria, requirements capture and specification, design requirements and criteria, choosing topographies and architectures, evaluating plans (3) The Implementation Process: implementation teams, validating implementation plans, managing people and technology, managing the implementation process.

### IACT926 Information Society, Knowledge Work and Information Technology

*Not on offer in 2007*  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** The subject examines the concept of 'information society' and its measurement. It also examines the changing structure of the workforce with an investigation of the place and role of knowledge

workers in the labour force being a core element. An examination of the trends affecting knowledge workers in Australia, and internationally, with respect to increasing credentialism, life-long learning and issues relating to their education and training will be undertaken. The introduction and application of IT affects each of these areas is therefore another critical component of study.

### **IACT927 Research Report Part 1**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject involves undertaking a project. Where possible the projects are related to the research interests of the School and/or staff and are chosen to develop the student's research skills. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

### **IACT928 Research Report Part 2**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** iact927

**Co-requisites:** None

**Subject Description:** This subject involves undertaking a project. Where possible the projects are related to the research interests of the School and/or staff and are chosen to develop the student's research skills. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

### **IACT930 Special Topics in Information and Communication Technology**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject aims to provide the student with an understanding of topics at the forefront of the discipline. Topics will be selected from areas of interest of staff members or visiting staff members to the Department. These will include topics in the application of information and communication technology.

### **IACT931 Special Topics in Information and Communication Technology A**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: IACT403, CSCI324, MCS9324

**Subject Description:** Topics will be selected from areas of interest of staff members or visiting staff members to the School. The design evaluation and implementation of interactive computing systems for human use (HCI) and the major phenomena surrounding them will be examined. Also considered are joint performance of tasks by humans and machines, structure of human machine communication, social and organizational interactions with machine design, human capabilities to use machines including their learnability as well as algorithms and programming of the interface itself, engineering concerns that arise in designing interfaces, the process of specification design and implementation of interfaces and design tradeoffs.

### **IACT932 Special Topics in Information and Communication Technology B**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics will be selected from areas of interest of staff members or visiting staff members to the Department. These will include topics in the application of information and communication technology. IT is a rapidly changing area. This subject will allow investigation into topics at the forefront of the discipline.

### **IACT938 IT Strategic Planning**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject is essentially about the application of technology for competitive advantage. Throughout the subject, the spotlight will be trained on techniques and frameworks for 'thinking strategically about a company's technological orientation'. A wide spectrum of business and technology issues will be covered that address the problems and issues surrounding the analysis and development of an IT strategic plan.

### **IACT940 Research Methodology**

Autumn Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to research methodology. Topics include the purpose of research, formulating a research question, conducting a literature review and writing a research proposal. Students will gain an understanding of the different research methodologies, including quantitative and qualitative analysis. 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. The subject provides an introduction to the research process for students undertaking Honours and postgraduate research projects in the School of Information Technology and Computer Science.

### **IACT950 Research Report**

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** IACT940

**Co-requisites:** None

**Subject Description:** This subject involves undertaking a project. Where possible the projects are related to the research interests of the School and/or staff and are chosen to develop the student's research skills. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

### **INFO911 Data Mining and Knowledge Discovery**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	Exclusions: INFO411 <b>Subject Description:</b> Introduction to Data Mining and Knowledge Discovery, Data Bases and Warehouses, Data Structures, Exploratory Data Analysis Techniques, Association Rules, Artificial Neural Networks, Tree Based Methods, Clustering and Classification Methods, Regression Methods, Overfitting and Inferential Issues, Use of Data Mining packages.
Commerce	<b>INFO912 Mathematics for Cryptography</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Logic: informal propositional logic, circuit theory. Natural Deduction style proofs in propositional & predicate logic. Interpretations & Models. Nonclassical logics. Number Theory: elementary number theory, modular exponentiation, discrete logarithms, Galois arithmetic & polynomials, error correcting codes & cryptography. Elliptic curves, groups for cryptography. Combinatorics: combinatorial probability, Knapsack problem, network and graph theory, combinatorial designs, game theory & linear programming applied to cryptography.
Creative Arts	<b>INFO913 Information Theory</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> MATH121 or MATH122 or (MATH187 and MATH188), or (MATH141 and MATH142). <b>Co-requisites:</b> None <b>Subject Description:</b> The following is a selection of topics which may vary. The idea of probability, entropy, inequalities involving entropy, data compression, Huffman and Fano codes, information sources, McMillan's theorem, communication and capacity, block codes, Shannon's theorems, applications to other areas which may include communication, linguistics, genetics and financial investment.
Education	<b>ITCS900 Fundamentals of Contemporary Technologies</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject aims to develop academic skills relevant to postgraduate studies and postgraduate writing in Information Technology and Computer Science. Students will develop an understanding of disciplinary expectations and requirements and the development of skills in critical listening, reading and analysis of text and data, the development of academic argument and the communication of text, data and analysis in written and spoken form. Students will also develop skills in locating, evaluating, and effectively using information appropriately in postgraduate studies. Topics covered include; • Critical reading in software engineering, network management, multimedia and content management • Analysis and evaluation of problems and solutions in Computer Science and Information Technology
Engineering	<b>ITCS905 Systems</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: MCS9102 <b>Subject Description:</b> This subject establishes the position of Computer Science and Information Technology in a non-programming context. Areas introduced include Human-Computer Interface, Information Modelling, Intelligent Systems, Networks, Operating Systems, Software Design and Development and Professional ethics, rights and responsibilities.
Graduate School of Business	<b>ITCS907 Java Programming &amp; Object Oriented Design</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: MCS9213 <b>Subject Description:</b> This subject provides: 1. an introduction to the Java language and some of its standard class libraries 2. experience with object oriented design and implementation techniques 3. the use of UML to document OO applications Topics will include: Java language, subset of Java class libraries (windowing, graphics, networking, threads), object oriented design and implementation, and introduction to security issues.
Health & Behavioural Sciences	<b>ITCS908 Information Technology &amp; Citizens Rights</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: MCS9201 <b>Subject Description:</b> This subject covers the body of ideas and commonly held principles that broadly apply to ethical behaviour in the information technology environment. ITCS908 will examine the social and ethical implications of information technologies as they apply to citizens and information technology professionals. It will present legal, regulatory, social and ethical perspectives on the use of such technologies through topics of intellectual property, privacy, networking, security, reliability. The inclusion of a professional ethics is to prepare students for careers in the information technology industry. The extent to which technological advancements have altered societal expectations is also examined.
Informatics	<b>ITCS921 Database Design and Implementation</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: MCS9315 <b>Subject Description:</b> This subject investigates the process of relational database design starting from conceptual database design, through logical database design up to and including physical database design, database tuning and administration. The topics will include conceptual database design based on Object Modelling Technique, methodologies for conceptual
Law	
Science	



design, view integration, logical database design, database normalization and de-normalization, physical database design, generation of database applications, database tuning, design of distributed database systems.

### ITCS922 Computer Security

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** MCS9361

**Subject Description:** This subject develops the knowledge and skills necessary to identify the security problems that may occur in a distributed computer environment, and then to devise means for countering the threats. Covers: Identification: passwords, challenge-response protocols Private Key Cryptography: classical ciphers, Feistel cryptosystems Public Key Cryptography: RSA, Merkle-Hellman, El-Gamal, Elliptic-Curve cryptosystems Hashing: Birthday paradox, serial and parallel hashing, MD family, keyed hashing Digital Signatures: generic, RSA, El-Gamal, blind, undeniable, fail-stop Key Establishment Protocols: classical key transport, DH agreement, Kerberos, SPX, STS protocol, BAN logic Access Control: MAC, DAC, RBAC, implementations of access control, security kernel, Multics, UNIX, capabilities, access control lists, Network Security: IPsec, viruses, web security, copyright protection.

### ITCS929 Concepts and Issues in Healthcare Computing

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the essential concepts of health computing, limitations of technology, issues of privacy and security, economics of healthcare computing, managing healthcare computing projects, evaluation methods in medical informatics, risk assessment in health informatics and the important issues involved in computer applications in healthcare.

### ITCS930 Introduction to Health Informatics

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** ITCS430

**Subject Description:** The subject covers clinical decision making and decision support systems and how health informatics and health information systems can assist. Topics include decision-making and decision-support systems in healthcare; knowledge engineering in health informatics, the reasons for the necessity of systematically processing data, information and knowledge in medicine and healthcare; benefits and constraints of using information and communication technology healthcare systems; patient management; primary care systems and knowledge management.

### ITCS931 Advance Web Application Development

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is an advanced web applications development subject utilising the visual basic integrated development environment. Requirements analysis and component solution architectures for e-commerce applications will be studied and solutions implemented utilizing advanced features of VB IDE. See Subject Outline for details.

### ITCS932 Web Design

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to the design and programming of multi-tier web sites, where dynamic pages present data from databases. Programming will be done with frameworks, such as Apple Web Objects to create web applications that support dynamic web pages and object models of databases. Topics include the design and creation of user process, site architecture, elegant page layouts and simple site navigation. Pages will be designed and content created with professional web tools, such as Adobe web tools. Emphasis is placed on user process, good media design, clean architecture and efficient algorithms.

### ITCS933 Software Engineering Requirements and Specifications

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject will demonstrate how software development can be viewed as a kind of engineering - an activity of building useful things to serve recognisable purposes. For software engineers, these useful things are a special kind of machine known as software systems. This subject emphasises the importance of understanding the application domains that software systems interact with and the problems we try to solve in these domains. The subject focuses on writing explicit and precise descriptions known as: (1) Requirements - descriptions of application domains and the problems to be solved there; (2) Specifications - descriptions of the interface between the machine and the application domain. The subject addresses techniques used to record, elicit, and reason about these descriptions. The subject examines the approach to Requirements and Specification techniques taken by a range of systems engineering methodologies. The concepts of method engineering are introduced and the role of software tools to support this activity is discussed.

### ITCS934 Software Process Management

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The primary aim of this subject is to acquaint students with the formal methodologies associated with the task of managing the software development process. Topics may include: Project Planning, Cost Estimation, Project Scheduling, Factors Influencing Productivity, Productivity Metrics, Risk Assessment and Management, Planning for Change, Release and Configuration Management, Software

Arts	
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Science	

Arts	Process Standards, Software Contracts, Approaches to Maintenance, Long-Term Software Development, Case Studies of Real World Projects, Ethics, Professional Organisations, Legal Implications and Liabilities
Commerce	<b>ITCS936 Detailed Design of Integrated Solutions for eBusiness</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: ITCS436 <b>Subject Description:</b> This subject develops the students' understanding of the system development process by taking the student through all the phases of analysis design and construction of an eBusiness solution. The methods adopted provide an in-depth understanding of the logistical problems associated with gathering user requirements, and analysis and design, using the 'Patterns for eBusiness' method.
Creative Arts	
Education	<b>ITCS937 Security, Risk Management and Control in Electronic Commerce</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject aims to provide students with a deep understanding of the security, risk management and regulatory aspects of e-commerce facing businesses in the on-line business environment. Today most businesses compete in a global business environment; a sound business strategy that addresses these issues is essential. This subject covers key issues in e-commerce, including: security options, trusted authorities, secure payment systems for the Internet, the regulatory environment and Government policy; risk management and control.
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	<b>ITCS938 eBusiness Technologies</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None Exclusions: IACT305 <b>Subject Description:</b> The subject explores the technology being adopted by organisations and the various means of maximising business potential using Internet technology, including eBusiness (B2B, B2C, B2G etc.). The focus of the course is from the IT professional perspective, giving the student a feel for what is required in a commercial business environment. The technology aspects will cover both developing in house software, as well as selecting 'best practice' outsourced options. Comparisons are drawn between the two adoption methods, and the student is engaged by scenario role playing as part of the group assignments.
Informatics	
Law	
Science	<b>ITCS940 Multimedia Programming Foundations</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject provides an introduction to multimedia programming by exploring

multimedia infrastructure and developing skills in the programming technologies used in multimedia. Infrastructure includes both how the elements of a multimedia system relate, for example MPEG 21, and foundational concepts used in producing multimedia, for example matrix transforms, simulations, kinematics and the dynamics of motion. Programming technologies include OO programming, 2D graphics, simple image and audio processing in Java; web presentation technologies such a SMILE; multimedia messaging; and an overview of multimedia applications programming interfaces, such as Java media framework and QuickTime.

**ITCS941 Multimedia Graphics**  
 Autumn Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** ITCS940  
**Subject Description:** This subject explores the creation of graphics for multimedia applications, covering graphics theory, programming and creative tools. It will commence with an overview of 2D graphics, including an examination of the support for 2D graphics in languages, such as Java 2D and their use in creative tools, such as Adobe Illustrator. It will focus on 3D graphics. Theory topics include basic three dimensional theory, reflection models, shading techniques, rendering, event models of user interaction, parametric representations, anti-aliasing, compositing of images, colour management, ray tracing, radiosity, shadows, texture, colour science and simple animation. Programs will be implemented in a common graphics language used in multimedia, such as OpenGL. The subject will compare and contrast it to other graphics programming technologies used in multimedia, such as MPEG-4 objects, Java 3D and VRML.

**ITCS942 Multimedia 3D Modelling and Animation**  
 Spring Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** This subject studies the design, creation and animation of 3D models with a professional 3D modelling tool, such as Lightwave. Model design and creation topics include coordinate frames, solids of revolution, designing objects from a set of 3D primitives, lighting, design for motion, textures, filters, shading, effects, inverse kinematics, rendering and surface modelling. Animation involves the theory of object motion and relative motion between components of an object, the practical problems of rendering images to visualise motion, the creative skills of coordinating image sequences with audio (voice, music and sound effects) and the programming of images and audio into timed sequences to produce movies in multimedia formats, such as MPEG-1 and QuickTime.

**ITCS943 Game Design and Programming**  
 Autumn Wollongong On Campus  
**Credit Points:** 6  
**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** This subject studies the design and implementation of games engines, artificial intelligence and media creation for different genres of

games. It starts with the design of game play within the context of different genres of games. It examines in detail the technical requirements of games engines both for playing the game and presenting the multimedia to the user. A significant component of the subject is the use of computational intelligence methodologies (expert systems, fuzzy logic and simulation) to make the game appear intelligent to the user.

#### ITCS945 Multimedia Project

Spring2007/Summer2007 Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** 24 cp of subjects from Master of Digital Multimedia with  $\geq 75\%$  average

**Co-requisites:** None

**Subject Description:** This subject involves undertaking a project in an area of multimedia. Projects will be closely aligned to the content of the subjects in the Master of Multimedia, and related to the research interests of the staff. They will be chosen to develop the student's research skills. Each student will deliver a seminar on a recent paper in the area of their project. Also, each student will prepare a final thesis and deliver a multimedia seminar about the work undertaken.

#### ITCS949 Industry-based Information Technology Project

Annual Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject requires that students combine an industry-based working environment with their academic studies, i.e., students will synthesise materials drawn from other subjects within the degree currently being studied; they will apply this synthesis to an in-depth investigation of a complex problem; and they will devise or recommend creative and appropriate solutions to the problem. This will typically take the form of undertaking a substantial industry-based Information Technology project related to their employment within the Information Technology sector. The projects are to be closely aligned with current developments in Information Technology, ideally associated with project development or management. Project proposals from students must identify the area of study, and show how this relates to the course and why it is important; describe a plan for conducting the project, including consideration of appropriate methodology and techniques; and describe the anticipated results and products. Students are required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken. An academic supervisor will be appointed for each student, who will maintain frequent contact with the student throughout the project.

#### ITCS950 Patterns for eBusiness

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject explores advanced 'pattern-oriented' approaches to the design and development of eBusiness solutions. The 'Patterns for eBusiness' initiative provides a conceptual framework that can be exploited at all stages in the eBusiness software lifecycle. In particular, this conceptual

framework and vocabulary bridges the communications gap between business analysts and systems developers seeking to devise integrated solutions for eBusiness.

#### ITCS951 Web Services for Dynamic eBusiness

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** ITCS451

**Subject Description:** Web Services are at the core of what is being termed the next generation of eBusiness. The term 'Web Services' refers to the set of standard protocols and associated technologies that enable software applications to communicate with each other across the Internet. To effectively exploit the potential of Web Services requires appropriate effort in the proper design of business processes and service architectures.

#### ITCS952 Exploiting Collaborative Technologies

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Students learn how to practically exploit Collaborative Technologies within eBusiness contexts. The concepts of Collaboration and the details of Collaborative Technologies will be investigated and explained from different eBusiness perspectives including the eBusiness Solutions perspective and the Patterns for eBusiness perspective. Examples of focus will include collaborative tools and techniques to support Knowledge Management and to support eLearning within an eBusiness solutions framework. Collaboration patterns will include modern variants of traditional categories including contextual (asynchronous) collaboration and interactive (synchronous) collaboration. Includes a practical focus ie a laboratory component that explores working with advanced collaborative applications including (for example) QuickPlace, Virtual Classroom, .NET and various extensions to the J2EE (Java 2 Enterprise Edition) platform. The subject will exploit collaborative team approaches to practical assignments.

#### MATH902 Solution to Differential Equations By One-Parameter Groups

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** One-parameter groups and Lie series, linear ordinary differential equations, first and second order ordinary differential equations, linear and non-linear partial differential equations.

#### MATH903 Mean Periodic Functions

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** An introduction to L. Schwartz's theory of mean periodic functions using the transform of J P Kahane. Applications to differential equations.

Arts
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Arts	<p><b>MATH904 Stability for Partial Differential Equations</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject is concerned with parabolic and elliptic partial differential equations. The main topic is the stability of solutions under changes in initial values or other parameters connected with the equations. Some of the tools that will be used are an analysis of the spectrum for elliptic operators and the Linearization Principle.</p>	<p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Fluid flow in porous media. Exact solution of related nonlinear boundary value problems. Introduction to inverse scattering transforms and soliton equations. Tests for integrability of a nonlinear equation. Chaotic flows.</p>
Commerce		<p><b>MATH916 Heat Conduction and Moving Boundary Problems</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Solutions of the heat equation, semi-infinite media, solution by Fourier series, solutions by heat-balance, classical moving boundary problems, large Stefan number expansions, integral formulation, bounds, integral equations, polynomial approximations, boundary fixing series solutions.</p>
Creative Arts	<p><b>MATH905 Functional Analysis and Control Theory</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject introduces several function spaces and then examines how they can be used in the theory of partial differential equations and control theory. Some of the topics considered will be the existence and uniqueness of solutions for hyperbolic and parabolic partial differential equations and the exact controllability for systems governed by the wave equation.</p>	<p><b>MATH917 Advanced Numerical Analysis</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Solution of Ordinary and Partial Differential Equations. Integration including multiple integration. Solution of Integral Equations. The algebraic eigenvalue problem.</p>
Education		<p><b>MATH918 Computational Fluid Mechanics</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Finite-difference and finite element methods applied to incompressible inviscid flow problems and incompressible viscous flow problems. Introduction to Boundary-element technique and its application to potential flows. The relationship between these numerical approaches will also be discussed.</p>
Engineering	<p><b>MATH912 Mathematics of Microwave Heating</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Electrostatics, Gauss' law, magnetic fields, induction, Maxwell's equations, the damped wave equation, the forced heat equation, solutions of microwave heating for constant conductivity, temperature dependent conductivity, hotspots.</p>	<p><b>MATH921 Advanced Functional Analysis</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Normed spaces, Banach spaces, linear operators, applications of the theory of linear operators to other areas of analysis such as Fourier analysis, quadrature formulae and integral equations.</p>
Graduate School of Business		<p><b>MATH922 Harmonic Analysis</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> MATH188</p> <p><b>Subject Description:</b> This subject consists of a certain amount of Lebesgue Integration Theory which will be applied to a discussion of various topics in the theory of Fourier Series. The generalization of Fourier Series to harmonic analysis on groups will also be considered.</p>
Health & Behavioural Sciences	<p><b>MATH913 Fluid Mechanics and Wave Theory</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Hyperbolic partial differential equations, conservation laws, shallow water equations, dispersive waves, solution theory, gas dynamics, shock waves, flow past bodies, conformal mapping, aerofoil theory.</p>	<p><b>MATH923 Measure and Integration</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p>
Informatics	<p><b>MATH914 Analytic Dynamics</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Lagrangian and Hamiltonian formulations, symmetry and conservation laws. Regular and chaotic motion. Strange attractors.</p>	
Law	<p><b>MATH915 Applied Non-Linear Partial Differential Equations</b></p> <p><i>Not on offer in 2007</i></p> <p><b>Credit Points:</b> 6</p> <p><b>Pre-requisites:</b> None</p>	
Science		

**Pre-requisites:** None  
**Co-requisites:** None  
**Subject Description:** Lebesgue measure and more general measures, measurable functions, Lebesgue integration and its properties, behaviour of integrals under taking limits, product integrals.

### MATH924 Distributions

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Mikusinski's theory of convolution quotients and an introduction to L. Schwartz's theory of distributions. Properties of the space of continuous functions of a single real variable (equipped with a suitable topology) and dual space.

### MATH925 Topics in Algebra

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Partially ordered sets, lattices, modular lattices, Boolean Algebras and Boolean rings, orthomodular lattices.

### MATH926 Logic and Set Theory

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Axiomatic propositional and predicate logic, nonclassical logics, applications to circuit theory and logic programming, introduction to Axiomatic Set Theory.

### MATH927 Combinatory Logic

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Introduction to Pure and Illature combinatory logic, relation to lambda-conversion, functionality, application to propositional and predicate calculus.

### MATH928 Advanced Measure Theory

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Construction of outer, measures, Hausdorff measures, signed measures, Radon-Nikodym theorem, differentiation of measures.

### MATH929 General Topology

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is a systematic discussion of topological spaces and associated concepts which are of fundamental importance in various areas of mathematics. The topics covered will include topologies, bases and sub bases for topologies, separation properties of topologies, product and quotient topologies, and

connectedness and compactness. Depending upon students' interests and backgrounds, excursions into the following or other areas are possible: topological groups, programming language semantics, elementary algebraic topology, dimension theory and cardinal invariants.

### MATH931 Statistical Behaviour in Dynamical Systems

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Two different statistical phenomena in dynamical systems are considered; recurrence and averaging. In tossing an unbiased coin, recurrence is illustrated by eventually obtaining 'heads', while averaging is illustrated by obtaining approximately the same number of 'heads' and 'tails' over a large number of tosses. The ideas are discussed in the context of systems on an interval, probability and general ergodic theory. Applications will be discussed, and these may include number theory, information theory, mathematical economics, chaos and statistical mechanics.

### MATH941 Financial Calculus

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with MATH317

**Subject Description:** This subject introduces the financial calculus and the mathematical and statistical modelling necessary for solving practical problems in three fundamental aspects of financial markets (i) financial assets pricing (ii) financial derivatives pricing and (iii) risk management. The course brings together arbitrage principles, stochastic models of stock prices and interest rates, Ito's Lemma and analytical and numerical techniques for solving partial differential equations, to derive, solve and extend models for the valuation and hedging of a variety of vanilla and exotic options and interest-rate products.

### MATH942 Numerical Methods in Finance

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with MATH321

**Subject Description:** MATH942 is designed to develop practical skills in numerical and computational mathematics to solve problems that have no analytic solution. Various numerical techniques, such as Newton's iteration method, finite difference and finite element methods, for solving algebraic as well as differential equations are discussed. Methods that are particularly of interest for finance problems such as the Monte Carlo method and the binomial method are also studied.

### MATH943 Practitioners' Seminars

Annual Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 0

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** MATH943 is designed to allow

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Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science



**Co-requisites:** None

**Subject Description:** This subject introduces the basic concepts of algorithms and their relationship to data structures and problem solving. This subject emphasises problem solving techniques leading to the development of algorithms rather than their implementation or a formal mathematical treatment of algorithms. Topics include sorting, searching and counting problems and the principal algorithms used in their solution. Common approaches to algorithm development and analysis will be examined.

#### **MCS9114 Procedural Programming**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ITCS901

**Subject Description:** This subject introduces the procedural approach to program design and implementation. Covers basic language constructs for defining variables of built-in types, flow control constructs and simple I/O. Explores functional decomposition as a design technique, and the implementation of functions. Introduces simple user-defined data types and aggregates.

#### **MCS9124 Applied Programming**

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9114 & MCS9103

**Co-requisites:** None

Exclusions: ITCS902

**Subject Description:** This subject develops a thorough understanding of program design using data structures. It extends MCS9114 and presents pointers, dynamic memory management and exception handling. Other topics include implementation of Sorting and Searching Algorithms including the use of typedefs, void pointers and indexes to generalise algorithms; Implementation of data structures: queues, stacks, linked lists, deques, trees; Use of arrays as an implementation structure – hashing, radix sort, heaps and Heapsort; Random Access files and internal I/O; Testing of programs: black and white box testing, and the use of debuggers; Use of multi-file organisation in encapsulation and data hiding, with make files; These concepts will be treated through formal lectures, tutorials, assignments and laboratory sessions employing an object oriented language.

#### **MCS9201 Information Technology & Citizens' Rights**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ITCS908

**Subject Description:** This subject covers the body of ideas and commonly held principles that broadly apply to ethical behaviour in the information technology environment. MCS9201 will examine the social and ethical implications of information technologies as they apply to citizens and information technology professionals. It will present legal, regulatory, social and ethical perspectives on the use of such technologies through topics of intellectual property, privacy, networking, security,

reliability. The inclusion of a professional ethics is to prepare students for careers in the information technology industry. The extent to which technological advancements have altered societal expectations is also examined.

#### **MCS9203 Algorithms and Data Structures**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9124 or ITCS902

**Co-requisites:** None

Exclusions: ITCS903

**Subject Description:** Approaches to analysing algorithm complexity, introduced in earlier subjects, will be reviewed. The use of abstract data types as a design technique, and their implementation in solutions to problems, will form a large part of the subject. The concept of efficient code and ways to measure efficiency (both empirically, by timings, and theoretically) will be studied.

#### **MCS9204 Object Programming and Frameworks**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9124 or ITCS902

**Co-requisites:** None

Exclusions: Not to count with ITCS903

**Subject Description:** This subject develops a thorough understanding of the object-based approach and introduces topics including encapsulation, data hiding, inheritance, polymorphism and runtime binding. Templates are introduced as method of achieving generalisation. Container classes and the Standard Template Library are introduced as tools of generic programming. Graphical User Interface Design Concepts are discussed, including a framework as an example of OO design and implementation.

#### **MCS9205 Development Methods & Tools**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9124

**Co-requisites:** None

Exclusions: ITCS917

**Subject Description:** This subject provides an introduction to the process of design and analysis of software. Students will receive a formal introduction to the design process and techniques, followed by the opportunity to use modern design techniques to address real-world problems. A range of modern techniques and tools will be covered, in particular UML.

#### **MCS9206 Markup Languages**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: ITCS201 or ITCS206

**Subject Description:** XML (eXtensible Markup Language) can be regarded as a language for creating other languages. In this capacity XML has rapidly become ubiquitous in very many diverse areas of IT and is now regarded as an essential core area of knowledge for every IT practitioner. The primary aims of this subject are to enable students to acquire practical proficiency in exploiting XML and to be able to explain the relevance of XML for many IT and Business contexts. In addition to

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Arts	being a new area of study, by studying XML students can extend or re-enforce their understanding of related study areas, e.g., the students can develop their understanding of data modelling and object-orientation (via XML schemas and XML transformations). As a secondary aim (a minor but relevant part of the subject) the subject will provide a basic practical proficiency in manipulating HTML and hence construction of elementary web pages.
Commerce	<b>MCS9212 Interacting Systems</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> (MCS9102 or ITCS905) and MCS9124 <b>Co-requisites:</b> None Exclusions: ITCS909 <b>Subject Description:</b> The subject develops an understanding of the operating system and tools from a programmer's viewpoint. Topics covered include the file system, processes, communication and tools. In particular, access, security, organisation, operating system effect on performance of a program, support, control; process and interaction, inter-process communication; use of shell scripts and commands to enhance problem solving; tools for development process; program paradigms: parallel, distributed, etc.
Creative Arts	
Education	
Engineering	<b>MCS9213 Java Programming &amp; Object Oriented Design</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> MCS9124 Exclusions: ITCS907 <b>Subject Description:</b> This subject provides: 1. an introduction to the Java language and some of its standard class libraries 2. experience with object oriented design and implementation techniques 3. the use of UML to document OO applications Topics will include: Java language, subset of Java class libraries (windowing, graphics, networking, threads), object oriented design and implementation, and introduction to security issues.
Graduate School of Business	
Health & Behavioural Sciences	<b>MCS9214 Distributed Systems</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> MCS9124 <b>Subject Description:</b> This subject introduces basic concepts of internetworking and distributed systems. Physical communications media are introduced, then the focus shifts to network protocols (TCP/IP), then client-server model and the sockets interface. Other topics to be covered include network addressing and security (firewalls). Real-world programming examples from Unix and Windows-NT environments will be presented. Students will undertake laboratory exercises on Linux-based PCs.
Informatics	
Law	
Science	<b>MCS9235 Database Systems</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject investigates three major areas of modern database systems: 1. design of relational databases 2. programming of relational
	databases 3. concurrency control and data recovery in database systems. Topics will include: Introduction to conceptual database modelling; Principles of relational database model; Structured Query Language (SQL) and its procedural extensions (PL/SQL, Embedded SQL, JDBC); Database server programming; Normalisation of relational databases; and Transaction management and recovery in database systems
	<b>MCS9301 Information and Communication Security Issues</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> MCS9201 or ITCS908 <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will examine current controls, both legislative and technical, aimed at maintaining data integrity, ease of access to information, and protection of ownership, in the light of on going developments in computer security, multimedia communications, international electronic networks, and electronic publishing. The subject will cover communication security; issues relating to the monitoring of international agreements; OECD guidelines for security of information; maintaining privacy provisions; password security; and future IT developments and their implications for monitoring intellectual property rights and communication security.
	<b>MCS9303 World Wide Networking</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> MCS9102 <b>Co-requisites:</b> None Exclusions: ITCS923 <b>Subject Description:</b> This subject investigates topics such as the following within the context of world wide networking: Web Technologies & Protocols; Software Development and Quality Assurance for Web Applications; Network Security; Client-side and Server-side Practical Tools for the Web; Local and International Web-based Policy and Practice in Education, Business and Government; Content Management for the Web; Current Legal Issues and the Web; and Web Services. Emphasis will be placed on group work with students required to participate in problem solving communications tasks. Web based activities will be an essential element in the conduct of this subject. Other activities may include: the running of a bulletin board or Internet mailing list or the maintenance of a World Wide Web site.
	<b>MCS9315 Database Design and Implementation</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> MCS9235 <b>Co-requisites:</b> None Exclusions: ITCS921 <b>Subject Description:</b> This subject investigates the process of relational database design starting from conceptual database design, through logical database design up to and including physical database design, database tuning and administration. The topics will include conceptual database design based on Object Modelling Technique, methodologies for conceptual design, view integration, logical database design, database



normalization and de-normalization, physical database design, generation of database applications, database tuning, design of distributed database systems.

### **MCS9317 Database Performance Tuning**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9235

**Co-requisites:** None

**Subject Description:** The subject addresses the performance problems of relational database systems. In particular, it presents optimisation of query processing in relational database systems, performance tuning of database applications, transaction processing in database systems, optimisation of transaction processing, performance tuning of relational database servers, performance tuning of three tier database applications. Laboratory classes demonstrate the techniques used for elimination of performance problems in database systems. Oracle 9i database management system is used for demonstration purposes and all practical work in the subject.

### **MCS9318 Software Engineering Practices & Principles**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: CSCI318, CSCI425, CSCI925

**Subject Description:** This subject examines the current state of software engineering both as an academic discipline and as a profession. The subject focuses on issues of requirements engineering, system procurement, and professional practice, and through case studies, the subject considers reasons for the failure and success of various software engineering projects. Topics which may be covered include: Requirements Elicitation, Functional and Non-Functional Requirements, Design Patterns and Refactoring, Reverse Engineering, Software Quality Assurance, Analysis and Verification of Specification and Design, Examples of Formal Techniques in Software Engineering.

### **MCS9322 Systems Administration**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9204

**Co-requisites:** None

**Subject Description:** This subject will cover the practical and theoretical aspects of system administration. The various resource areas which have to be managed will be discussed and examined, and the possible methods of monitoring and controlling them in various systems will be investigated. The features unique to both single processor and networked systems will be investigated.

### **MCS9323 Artificial Intelligence**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9114

**Co-requisites:** None

**Subject Description:** This subject reviews the main components of Artificial Intelligence research including knowledge representation, reasoning, natural language

understanding, and perception. Focuses on Expert Systems and the computational models they embody. Introduces the programming languages Lisp and Prolog.

### **MCS9324 Human Computer Interface**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the design evaluation and implementation of interactive computing systems for human use (HCI) and the major phenomena surrounding them. Also considered are joint performance of tasks by humans and machines, structure of human machine communication, social and organizational interactions with machine design, human capabilities to use machines including their learnability as well as algorithms and programming of the interface itself, engineering concerns that arise in designing interfaces, the process of specification design and implementation of interfaces and design tradeoffs.

### **MCS9334 Real Time Programming**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** MCS9114

**Co-requisites:** None

**Subject Description:** The emphasis of this subject is on low-level interfacing of computer peripherals in high-level languages. Students will be required to complete a number of practical assignments. Topics to be covered will include (a) Motorola MC68HC12 Programmer's model, (b) interrupt handling, (c) I/O registers, (d) data input, error detection and correction, filtering, storage and output, (e) programmable chips for digital, serial, analog and disk I/O, graphics, memory management and real-time clocks.

### **MCS9337 Organisation of Programming Languages**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9124

**Co-requisites:** None

**Subject Description:** This subject develops an understanding of major programming paradigms including imperative, functional, logical, object-oriented, and procedural paradigms. Introduces formal language specification. Covers language definition and syntax; data types and data structures, control structures and data flow; run-time considerations; and interpreted languages.

### **MCS9361 Computer Security**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** MCS9204 or ITCS903

**Co-requisites:** None

Exclusions: ITCS922

**Subject Description:** This subject develops the knowledge and skills necessary to identify the security problems that may occur in a distributed computer environment, and then to devise means for countering the threats. Covers: Identification: passwords, challenge-response protocols Private Key Cryptography: classical ciphers, Feistel cryptosystems Public Key Cryptography: RSA, Merkle-Hellman, El-Gamal, Elliptic-Curve cryptosystems Hashing: Birthday paradox, serial and

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Arts	parallel hashing, MD family, keyed hashing Digital Signatures: generic, RSA, El-Gamal, blind, undeniable, fail-stop Key Establishment Protocols: classical key transport, DH agreement, Kerberos, SPX, STS protocol, BAN logic Access Control: MAC, DAC, RBAC, implementations of access control, security kernel, Multics, UNIX, capabilities, access control lists, Network Security: IPsec, viruses, web security, copyright protection.
Commerce	<b>MCS9457 Advanced Topics in Database Management</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> MCS9315 <b>Co-requisites:</b> None <b>Exclusions:</b> CSCI957 <b>Subject Description:</b> This subject covers two advanced topics from modern database management systems: object-oriented databases and transaction management in database systems. Topics include details such as design and implementation of object-oriented database systems, hybrid transaction management, optimistic transaction management, nested transactions, management of long transactions, and management of transaction in distributed systems.
Creative Arts	
Education	
Engineering	<b>STAT901 Modern Inference</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Introduction to programming in S-Plus; bootstrap methods; Monte-Carlo methods; permutation tests; nonparametric regression; the sign, Kruskal-Wallis and Spearman tests and extensions of them; ties.
Graduate School of Business	<b>STAT902 Advanced Data Analysis</b> Autumn Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> A selection of topics from: Regression model building and checking; Causal modelling; Cluster analysis; Multi-dimensional scaling; Log-linear models; Generalised linear models; Time series methods; Principal components, Factor analysis; Canonical correlations; Statistical computer packages.
Health & Behavioural Sciences	
Informatics	<b>STAT903 Survey Design and Analysis</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Survey methods - survey development; Cluster and multi-stage sampling; Repeated and longitudinal surveys; Non-sampling errors; General methods of variance estimation; Small area estimation; Non-response adjustment; Analysis of complex survey data; Report writing.
Law	
Science	<b>STAT904 Statistical Consulting</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None

**Subject Description:** Project management; Client liaison; Problem identification; Consulting ethics and principles; Sources of data; Choosing design and analysis procedures; Common problems in statistical consulting; Setting sample size - power calculations; Consulting case studies; Report writing.

### STAT905 Time Series

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Prediction theory; Linear models: identification, estimation, diagnostic checking; Multivariate models.

### STAT906 Experimental Design

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The general linear model; Complete and incomplete block designs; The construction of optimal block designs; Factorial designs and fractional factorial designs; Response surface methodology.

### STAT920 Stochastic Methods in Finance

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** STAT920 covers necessary probabilistic concepts and models such as linear stochastic models, nonlinear stochastic models and nonlinear chaotic models used in finance. Topics discussed in this subject also include martingale methods, stochastic processes, optimal stopping, the modeling of uncertainty using a Wiener process, Ito's formula as a tool of stochastic calculus, fundamentals of stochastic differential equations and the applications of these methods to finance.

### STAT921 Multiple Regression and Time Series

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** STAT332

**Subject Description:** STAT921 is an advanced course covering relationships between variables and the analysis of observational studies and designed experiments. Topics covered include multiple linear regression, non-linear regression, generalised linear regression, ARIMA models, forecasting of time series and Box-Jenkin's approach.

### STAT922 Statistical Inference and Multivariate Analysis

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** STAT333

**Subject Description:** STAT922 covers inference (estimation and hypothesis testing) in both one and many dimensions. Topics covered include transformations, maximum likelihood and minimum

variance unbiased estimation, the likelihood ratio, score and Wald tests, vector random variables, the multivariate Normal distribution, principal components analysis, factor analysis and discriminant analysis.

### **STAT923 Applied Probability and Financial Risk**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Exclusions:** STAT304

**Subject Description:** This subject develops the stochastic models required for decision making under uncertainty in finance, economics and actuarial statistics. Stochastic models include processes in both discrete time (random walk, Markov chains) and continuous time (birth and death processes, Gaussian processes). The applications focus on the measurement, management and control of risk and its consequences. Particular topics include gambler's ruin, log-normal price models, Value at Risk (VaR) measures and Markowitz portfolio selection.

### **STAT941 Statistical Quality Control 1**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Why control charts?; Level of variability; Differences between specification limits and control limits; Deming's philosophy; Quality circles; Cause and effect diagrams; Pareto diagrams; Control charts; Benefits of using control charts; Shewhart charts, such as x-charts, c-charts, p-charts, R-charts, s-charts; Cumulative sum (CUSUM) control charts; Exponentially weighted moving averages; Moving average and moving range charts; Average run length of the above mentioned control charts; Comparison of charting methods; Process capability indices; Determining process capability using control charts; Some case studies.

### **STAT942 Design and Analysis For Quality Control**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Experimental design; Principles of design; Importance of randomisation; Randomised block designs; Factorial designs; Fractional factorials; Taguchi's philosophy and how it relates to experimental design; Introduction to variance components; Fixed models as opposed to random (mixed) models; Estimation of variance components; Evolutionary processes.

### **STAT943 Statistical Quality Control 2**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** MATH188

**Co-requisites:** None

### **STAT944 Regression and Observational Studies**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Linear regression; Regression diagnostics; Multicollinearity; Residual analysis; Response surface methodology; Logistic regression; Planning of observational studies; Effects of matching and covariates as controls. Concepts of confounding.

### **STAT949 Statistical Thinking**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The importance of variability; Why statistics?; Statistics and quality; Exploratory data analysis; Numerical and graphical summaries; Measures of location and spread; Elementary probability; The Binomial; Poisson and Normal Distributions; The role of the Central Limit Theorem in statistics; The nature and purpose of statistical inference; Point estimation and confidence intervals; Concepts of hypothesis testing; Simulation techniques; Sampling methods; Elementary control charts.

### **STAT955 Sample Surveys and Experimental Design (With Project)**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** STAT232, or STAT252 at Credit level or better, or STAT151 at Credit level or better, or PSYC232 at Credit level or better, or ECON121 at Credit level or better, or (STAT131 and STAT231 both at Credit level or better)

**Co-requisites:** None

**Exclusions:** Not to count with STAT335 or STAT355.

**Subject Description:** Experimental designs: completely randomised, randomised complete block, Latin Square, factorial; the analysis of the data arising from these designs. Steps in conducting a sample survey; methods such as simple random sampling and stratified sampling, number raised and ratio estimation. Statistical computing is an essential part of this subject. Project: Students will undertake a project that relates the work of this subject to an investigation in their field of major interest.

### **STAT971 Preliminary Topics in Statistics A**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A selection of topics will be available from time to time to serve as preliminary material in the Master of Statistics.

### **STAT972 Preliminary Topics in Statistics B**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A selection of topics will be available from time to time to serve as preliminary material in the Master of Statistics.

### **STAT981 Advanced Topics in Statistics A**

Autumn Wollongong On Campus

**Credit Points:** 6

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Arts	<b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Current research interests of staff of the School of Mathematics and Applied Statistics and visitors to the School.		
Commerce	<b>STAT982    Advanced Topics in Statistics B</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Current research interests of staff of the School of Mathematics and Applied Statistics and visitors to the School.		
Creative Arts	<b>STAT983    Advanced Topics in Statistics C</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Current research interests of staff of the School of Mathematics and Applied Statistics and visitors to the School.		
Education	<b>STAT990    Minor Project</b> Spring            Wollongong            On Campus Autumn          Wollongong            On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None		
Engineering	<b>STAT991    Project</b> Annual            Wollongong            On Campus Spring2007/Autumn2008    Wollongong    On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None		
Graduate School of Business			
Health & Behavioural Sciences			
Informatics			
Law			
Science			

# Faculty of Law

## Courses Offered

### Research

Doctor of Philosophy  
 Master of Laws – Research  
 Master of Laws – Research (Natural Resources Law)  
 Master of Maritime Studies – Research  
 Master of Natural Resources Law – Research

### Coursework

Master of Laws (International and Comparative)  
 Master of Laws in Prosecutions  
 Master of Maritime Studies  
 Master of Transnational Crime Prevention  
 Graduate Diploma in Legal Practice  
 Graduate Diploma in Law (Prosecutions)  
 Graduate Certificate in Law (Prosecutions)  
 Graduate Certificate in Maritime Studies  
 Graduate Certificate in Transnational Crime Prevention

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).

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# Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Law
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	48 per annum
Delivery Mode:	Supervised individual research
Location:	Wollongong
UOW Course Code:	201
CRICOS Code:	028400J

## Overview

Doctor of Philosophy (PhD) candidates undertake in-depth research in order to make an original contribution to the body of knowledge in law.

## Entry Requirements / Assumed Knowledge

Candidates should have an undergraduate degree from a recognised institution with Honours Class II, Division 2 or above. Candidates who do not possess such a degree may be permitted to demonstrate capacity for research, for example by first completing a Special Research Paper in Law, and should contact the Faculty of Law's Postgraduate Coordinator.

## Course Requirements

Candidates are required to satisfactorily complete a major thesis to the value of 48 credit points per annum.

## Course Program

Subjects	Session	Credit Points
THES924 Major Thesis - full-time students	Autumn/Spring	48 per annum
THES912 Major Thesis - part-time students	Autumn/Spring	48 per annum

## Current Research Areas

Anti-discrimination law  
 Biotechnology and the law  
 Company law  
 Comparative law  
 Conflict of laws  
 Constitutional law  
 Consumer protection law  
 Court policy and administration  
 Criminal law  
 Cross-cultural legal issues  
 Environmental and planning law  
 Fisheries law and policy  
 Human rights and international law  
 Indigenous people and law  
 Industrial relations law  
 Intellectual property law  
 International law  
 Law relating to the sea  
 Maritime Policy  
 Natural resources law  
 Refugee law

Sociology and law  
Taxation law and practice  
Transnational crime

## Master of Laws - Research

Testamur Title of Degree:	Master of Laws – Research
Abbreviation:	MLaws – Res
Home Faculty:	Law
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1311
CRICOS Code:	042525A

### Overview

This research program is designed for candidates to complete a thesis in relation to a discipline of Law.

### Entry Requirements / Assumed Knowledge

Candidates should have an undergraduate degree in Law from a recognised institution, or recognised overseas equivalent.

### Advanced Standing

Candidates may be exempt from LAW993 Research Project (Minor Thesis) if they have completed a substantial piece of written research as part of their Honours Law Degree at undergraduate level.

### Course Requirements

Candidates are required to satisfactorily complete a 48 credit point research thesis plus 24 credit points of coursework prior to completion of the thesis.

### Course Program

Subjects	Session	Credit Points
LAW993 Research Project (Minor Thesis)	Autumn/Spring	8
LAW994 Research Proposal	Autumn/Spring	8
<b>Plus one 8 credit point subject relevant to the particular needs of the student, chosen from the following:</b>		
LLB9337 Comparative Studies in Law	Spring	8
LLB9100 Introduction to Legal Systems	Spring	8
<b>Plus 48 credit points in one of the following subjects depending on whether you are part-time or full-time:</b>		
THES924 Major Thesis – full-time students	Autumn/Spring	48
THES912 Major Thesis – part-time students	Autumn/Spring	48

### Current Research Areas

Refer to listing under Doctor of Philosophy entry.

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Creative Arts
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Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Master of Laws - Research (Natural Resources Law)

Testamur Title of Degree:	Master of Laws – Research (Natural Resources Law)
Abbreviation:	MLaws – Res (NRL)
Home Faculty:	Law
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1311
CRICOS Code:	042525A

### Overview

This research program is designed for candidates to complete a thesis in relation to a discipline of Law and Natural Resources.

### Entry Requirements / Assumed Knowledge

Candidates should have an undergraduate degree in Law from a recognised institution, or recognised overseas equivalent.

### Advanced Standing

Candidates may be exempt from LAW993 Research Project (Minor Thesis) if they have completed a substantial piece of written research as part of their Honours Law Degree at undergraduate level.

### Course Requirements

Candidates are required to satisfactorily complete a 48 credit point research thesis plus 24 credit points of coursework prior to completion of the thesis.

### Course Program

Subjects	Session	Credit Points
LAW993 Research Project (Minor Thesis)	Autumn/Spring	8
LAW994 Research Proposal	Autumn/Spring	8

**Plus one 8 credit point subject relevant to the particular needs of the student, chosen from the following:**

LLB9337	Comparative Studies in Law	Spring	8
LLB9100	Introduction to Legal Systems	Spring	8

**Plus 48 credit points in one of the following subjects depending on whether you are part-time or full-time:**

THES924	Major Thesis – full-time students	Autumn/Spring	48
THES912	Major Thesis – part-time students	Autumn/Spring	48

## Master of Maritime Studies - Research

Testamur Title of Degree:	Master of Maritime Studies – Research
Abbreviation:	MMaritimeStud – Res
Home Faculty:	Law
Starting Session(s):	Autumn/Spring
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Campus:	Wollongong
UOW Course Code:	1320
CRICOS Code:	045472G

### Overview

The course is a research degree with a specialisation in Maritime Studies.

### Entry Requirements / Assumed Knowledge

Candidates should have an undergraduate degree in any discipline from a recognised institution or recognised overseas equivalent; or a University of Wollongong Graduate Certificate in Maritime Studies; or relevant professional experience.

### Advanced Standing

Candidates may be exempt from all or part of the coursework requirement depending on their research, academic and/or professional experience.

### Course Requirements

Candidates are required to satisfactorily complete a 48 credit point research thesis plus 24 credit points of coursework prior to completion of the thesis.

### Course Program

Subjects	Session	Credit Points
CMP911 Research Project in Maritime Studies	Autumn/Spring	8
Plus two 8 credit point subjects relevant to the particular needs of the student chosen from the Master of Maritime Studies coursework schedule, or other subjects approved by the Course Coordinator.		
Plus 48 credit points in one of the following subjects depending on whether you are part-time or full-time:		
THES924 Major Thesis – full-time students	Autumn/Spring	48
THES912 Major Thesis – part-time students	Autumn/Spring	48

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

# Master of Natural Resources Law - Research

Testamur Title of Degree:	Master of Natural Resources Law – Research
Abbreviation:	MNRL – Res
Home Faculty:	Law
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1318
CRICOS Code:	042537G

## Overview

This course enables candidates to complete supervised research in an area of Natural Resources Law.

## Entry Requirements / Assumed Knowledge

Candidates should have a recognised undergraduate degree.

## Advanced Standing

Candidates may be exempt from LAW993 Research Project (Minor Thesis) if they have completed a substantial piece of written research as part of their Honours Degree at undergraduate level.

## Course Requirements

Candidates are required to satisfactorily complete a 48 credit point research paper plus 24 credit points of coursework prior to completion of the thesis.

## Course Program

Subjects	Session	Credit Points
LAW993 Research Project (Minor Thesis)	Autumn/Spring	8
LAW994 Research Proposal	Autumn/Spring	8
<b>Plus one 8 credit point subject relevant to the particular needs of the student, chosen from the following:</b>		
LLB9337 Comparative Studies in Law	Spring	8
LLB9100 Introduction to Legal Systems	Spring	8
<b>Plus 48 credit points in one of the following subjects depending on whether you are part-time or full-time:</b>		
THES924 Major Thesis – full-time students	Autumn/Spring	48
THES912 Major Thesis – part-time students	Autumn/Spring	48



## Master of Laws (International and Comparative)

Testamur Title of Degree:	Master of Laws (International and Comparative)
Abbreviation:	LLM (I & C)
Home Faculty:	Law
Duration:	1 year full-time
Total Credit Points:	48
Starting Session(s):	Spring
Location:	Wollongong
UOW Course Code:	584
CRICOS Code:	012118J

### Overview

This program is designed to introduce students from a range of different countries and legal systems to the principles of international and comparative law. Students may also study and research various aspects of natural resources law, commercial law and the Anglo-American system of common law as it is practised in Australia.

Options cater to students from civil law and common law countries and those who do not use English as their language of first choice.

### Entry Requirements / Assumed Knowledge

Students should have an undergraduate degree in law from a recognised institution, or recognised overseas equivalent.

### Course Requirements

Students are required to satisfactorily complete 48 credit points, comprising compulsory subjects, research essay and other subjects chosen from the Course Program to complement the student's background and interests.

### Course Program

Subjects	Credit Points
<b>Prescribed Subjects</b>	
LLB9100 Introduction to Legal Systems	8
LLB9343 International Law	8
LLB9337 Comparative Studies in Law	8
LAW993 Research Essay	8
<b>Options: Language</b>	
ELL901 English for Postgraduate Studies 1	
<b>or</b>	
ELL903 English for Postgraduate Studies 2	6
LLB9395 Legal Research and Writing	2
<b>Options: Natural Resources/Environmental Law</b>	
LLB911 Introduction to Natural Resources Law	8
LAW924 International Environmental Law	8
LLB918 Law of Land and Nature Conservation	8
LAW922 International Maritime Environmental Law	8
LLB919 Water Resources Law	8
LLB920 Local Government and Natural Resources Law	8
<b>Options: International Law</b>	
LAW922 International Maritime Environmental Law	8
LAW923 Law of the Sea	8
LAW924 International Environmental Law	8
LLB9344 Indigenous Peoples and Legal Systems	8

Arts
Commerce
Creative Arts
Education
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Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

**Options: Commercial Law**

LLB9320	Commercial and Consumer Contracts	8
LLB9331	Intellectual Property Law	8
LLB9360	Foreign Investment Law in the People's Republic of China	8

**Options: Industrial Relations Law**

LLB9330	Law of Employment	8
LLB9332	Labour Relations Law	8
LLB9335	Anti-Discrimination Law	8
Options:	Common Law	
LLB9210	Law of Contracts	8
LLB9301	Evidence	8
LLB9304	Criminal Law	8
LLB9305	Property and Trusts A	8
LLB9307	Law of Torts	8
LLB9344	Indigenous Peoples and Legal Systems	8
LLB9348	Media Law	8
LLB9350	Special Study in Law A	8
LLB9351	Special Study in Law B	8
LLB9360	Foreign Investment Law in the People's Republic of China	8
LLB9362	Advanced Revenue Law	8

NOTE: Not all optional subjects are offered every year. Students are advised to contact the Faculty before enrolling.

## Master of Laws in Prosecutions

Testamur Title of Degree:	Master of Laws in Prosecutions
Abbreviation:	LLM (Prosecutions)
Home Faculty:	Law
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Starting Session(s):	Autumn/Spring/Summer
Campus:	Wollongong
UOW Course Code:	1564
CRICOS Code:	058978G

### Overview

This program is designed specifically to address the educational needs of students with a special knowledge of or interest in criminal prosecutions. It draws on and extends the Faculty's existing expertise in the areas of professional legal training and transnational crime prevention to provide a theoretical and applied basis for meeting the educational needs of those involved in prosecutions.

### Entry Requirements / Assumed Knowledge

Students should have a degree in Law from a recognised institution or recognised overseas equivalent, or be admitted to practice as a barrister or solicitor.

English language requirements:

- IELTS overall band 7.0 or
- IELTS overall band 6.0 with attendance in either ELL901 English for Postgraduate Studies 1 in Autumn Session or ELL903 English for Postgraduate Studies 2 in Spring Session.

### Advanced Standing

The courses in Prosecutions are fully articulating. Graduates of the Graduate Diploma in Law (Prosecutions) can complete the Masters degree with an additional 24 credit points from the subjects listed in the Course Program.

## Course Requirements

Students are required to satisfactorily complete 72 credit points, comprising a 12 credit point research paper and ten subjects (60 credit points), from the subjects listed in the Course Program.

## Course Program

Subjects	Credit Points
<b>Prescribed Subject</b>	
LWPD920 Prosecutions Research Project	12
<b>Elective Subjects</b>	
LWPD901 Applied Criminal Law	6
LWPD902 Advanced Criminal Evidence	6
LWPD904 Advocacy Practicum	6
LWPD907 International Law and Criminal Jurisdiction	6
LWPD908 International Developments in Civil Rights	6
LWPD909 Studies in Transnational Crime and Transnational Criminal Law	6
LWPD910 Cooperation in International Criminal Justice	6
LWPD911 Introduction to Common Law Systems	6
LWPD912 International Humanitarian Law	6
LWPD913 Prosecuting Cybercrime	6
LWPD914 Comparative Criminal Justice	6
LWPD915 Criminal Appellate Advocacy	6
LWPD916 Prosecuting Transnational Economic Crime	6
LWPD917 Military Prosecutions	6
LWPD918 Technical and Forensic Evidence	6
LWPD919 Special Studies in Prosecutions	6
LWPD921 Expert Evidence	6
LWPD922 Research Paper in Prosecutions	12
LWPD923 Prosecutorial Practice	6
LWPD924 Court Practice	6

NOTE: Not all subjects are offered every year. Students are advised to contact the Course Coordinator before enrolling.

## Master of Maritime Studies

Testamur Title of Degree:	Master of Maritime Studies
Abbreviation:	MMaritimeStud
Home Faculty:	Law
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Starting Session(s):	Autumn/Spring
Campus:	Wollongong
UOW Course Code:	AN520, DE520, FP520
CRICOS Code:	042637D

## Overview

The program is designed to meet the professional development requirements of those working in marine fields, such as navies, relevant government departments and agencies, NGOs and the private sector, or those who intend to pursue a career in a maritime or related field.

## Entry Requirements / Assumed Knowledge

Students should have an undergraduate degree or equivalent or an appropriate professional background.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Advanced Standing

Students who have completed the Graduate Certificate in Maritime Studies may be eligible for 8 credit points of advanced standing in recognition of professional experience or prior learning.

## Course Requirements

Students are required to satisfactorily complete 48 credit points, comprising 16 credit points of prescribed subjects and 32 credit points of elective subjects, from the subjects listed in the Course Program.

## Course Program

### Subjects Credit Points

#### Prescribed Subjects

CMP902	Law of the Sea	8
CMP911	Research Project	8

#### Elective Subjects

CMP904	Maritime Regulation and Enforcement	8
CMP905	Legal Regulation of Shipping	8
CMP906	Comparative Oceans Policy	8
CMP909	International Marine Environmental Law	8
CMP910	Special Topic in Maritime Studies	8
CMP912	Minor Thesis in Maritime Studies	8
CMP913	Integrated Marine and Coastal Management	8
CMP914	International Fisheries Law	8
CMP915	Marine and Coastal Resources Management	8

NOTE: Not all subjects are offered every year. Students are advised to contact the Course Coordinator before enrolling.

## Master of Transnational Crime Prevention

Testamur Title of Degree:	Master of Transnational Crime Prevention
Abbreviation:	MTransCrimePrev
Home Faculty:	Law
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1516, FP1516
CRICOS Code:	037086F

## Overview

This program is designed for students from law enforcement agencies and the private sector, including police, customs, anti-corruption, immigration, banking, finance, accounting and other institutions from Australia, the Asia-Pacific region and beyond.

## Entry Requirements / Assumed Knowledge

Students should be graduates or have extensive relevant experience at a high level.

English language requirements:

IELTS overall band 7.0 or

IELTS overall band 6.0 with attendance in either ELL901 English for Postgraduate Studies 1 in Autumn Session or ELL903 English for Postgraduate Studies 2 in Spring Session.

## Advanced Standing

Students successfully completing the Graduate Certificate in Transnational Crime Prevention have the option to articulate into this course.

## Course Requirements

Students are required to satisfactorily complete 48 credit points from the subjects listed in the Course Program.

## Course Program

Subjects	Credit Points
<b>Prescribed Subjects</b>	
LEGL910 International Cooperation in Crime Prevention	4
LEGL911 International Criminal Law	4
LEGL912 Comparative Criminal Justice	4
LEGL920 Transnational Corporate Crime	4
LEGL921 Crime and Transnational Financial Transactions	4
LEGL922 Financial Investigations Practice and Procedure	4
LEGL923 Crime and Information Technology Regulation	4
LEGL930 Legal Research and Writing	2
LEGL931 Computing and Statistical Skills	2
LEGL940 Transnational Organised Crime	8
<b>Plus one of the following electives:</b>	
LEGL950 Transnational Crime Prevention Research Project	8
LEGL951 Special Studies in Transnational Crime Prevention and Investigation	8

## Graduate Diploma in Legal Practice

Testamur Title of Degree:	Graduate Diploma in Legal Practice
Abbreviation:	GDipLegPrac
Home Faculty:	Law
Duration:	20 weeks full-time or part-time equivalent
Total Credit Points:	48
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	637, FP637
CRICOS Code:	030380A

## Overview

This course provides law graduates with the opportunity to complete, through a flexible learning delivery mode, the admission requirements to practise as a solicitor in New South Wales, Australia.

## Entry Requirements / Assumed Knowledge

Students should have a University of Wollongong LLB degree, a Diploma in Law from the Legal Practitioners Admission Board or a law degree from an accredited tertiary institution, including the successful completion (pass level) of the equivalent of the University's skills training and legal profession studies subjects (ie, skills training, conveyancing, litigation practice and professional responsibility/ethics).

However, students who have not completed equivalent subjects as described above will have appropriate skills training in the Graduate Diploma in Legal Practice program offered by the Faculty of Law at the University of Wollongong.

## Course Requirements

Students are required to satisfactorily complete all coursework and professional experience components of the Practical Legal Training Course.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Course Program

Subjects	Session	Credit Points
LLB843 Professional Practice	Autumn/Spring	8
LLB844 Practice Management	Autumn/Spring	8
LLB845 Conducting Litigation	Autumn/Spring	16
LLB846 Commercial and Property Practice	Autumn/Spring	16

## Professional Recognition

The Legal Practitioners Admission Board recognises this course for graduates applying for admission as legal practitioners in New South Wales.

## Other Information

International law graduates should first contact the Legal Practitioners Admission Board for directions as to what requirements they must meet in order to qualify for admission in New South Wales. They may be required to complete some additional law studies and it is usual to complete these before commencing the practical legal training requirements.

## Graduate Diploma in Law (Prosecutions)

Testatur Title of Degree:	Graduate Diploma in Law (Prosecutions)
Abbreviation:	GDipLaw (Pros)
Home Faculty:	Law
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	681
CRICOS Code:	058979F

## Overview

This program is designed specifically to address the educational needs of students with a special knowledge of or interest in criminal prosecutions. It draws on and extends the Faculty's existing expertise in the areas of professional legal training and transnational crime prevention to provide a theoretical and applied basis for meeting the educational needs of those involved in prosecutions.

## Entry Requirements / Assumed Knowledge

Students should have a degree in Law from a recognised institution or recognised overseas equivalent, or be admitted to practice as a barrister or solicitor.

English language requirements:

IELTS overall band 7.0 or

IELTS overall band 6.0 with attendance in either ELL901 English for Postgraduate Studies 1 in Autumn Session or ELL903 English for Postgraduate Studies 2 in Spring Session.

## Advanced Standing

The courses in Prosecutions are fully articulating. Students completing the Graduate Certificate in Law (Prosecutions) can attain the Graduate Diploma in Law (Prosecutions) by completing 4 subjects from the Course Program. Graduates of the Graduate Diploma can complete the Masters degree with an additional 24 credit points from the subjects listed in the Course Program.

## Course Requirements

Students are required to satisfactorily complete 48 credit points from the subjects listed in the Course Program.

## Course Program

Subjects	Credit Points
LWPD901 Applied Criminal Law	6
LWPD902 Advanced Criminal Evidence	6
LWPD904 Advocacy Practicum	6
LWPD907 International Law and Criminal Jurisdiction	6
LWPD908 International Developments in Civil Rights	6
LWPD909 Studies in Transnational Crime and Transnational Criminal Law	6
LWPD910 Cooperation in International Criminal Justice	6
LWPD911 Introduction to Common Law Systems	6
LWPD912 International Humanitarian Law	6
LWPD913 Prosecuting Cybercrime	6
LWPD914 Comparative Criminal Justice	6
LWPD915 Criminal Appellate Advocacy	6
LWPD916 Prosecuting Transnational Economic Crime	6
LWPD917 Military Prosecutions	6
LWPD918 Technical and Forensic Evidence	6
LWPD919 Special Studies in Prosecutions	6
LWPD921 Expert Evidence	6
LWPD922 Research Paper in Prosecutions	12
LWPD923 Prosecutorial Practice	6
LWPD924 Court Practice	6

NOTE: Not all subjects are offered every year. Students are advised to contact the Course Coordinator before enrolling.

## Graduate Certificate in Law (Prosecutions)

Testamur Title of Degree:	Graduate Certificate in Law (Prosecutions)
Abbreviation:	GCertLaw (Pros)
Home Faculty:	Law
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	24
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1159
CRICOS Code:	058980B

### Overview

This program is designed specifically to address the educational needs of those with a special knowledge of or interest in prosecutorial practice. It draws on and extends the Faculty's existing expertise in the areas of professional legal training and transnational crime prevention to provide a theoretical and applied basis for meeting the educational needs of those involved in prosecutions.

### Entry Requirements / Assumed Knowledge

Students should have a degree in Law from a recognised institution or recognised overseas equivalent, or be admitted to practice as a barrister or solicitor.

English language requirements:

IELTS overall band 7.0 or

IELTS overall band 6.0 with attendance in either ELL901 English for Postgraduate Studies 1 in Autumn Session or ELL903 English for Postgraduate Studies 2 in Spring Session.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## Advanced Standing

The courses in Prosecutions are fully articulating. Students completing the Graduate Certificate in Law (Prosecutions) can attain the Graduate Diploma in Law (Prosecutions) by completing a 24 credit points from the Course Program. Graduates of the Graduate Diploma can complete the Masters degree with an additional 24 credit points from the subjects listed in the Course Program.

## Course Requirements

Students are required to satisfactorily complete 24 credit points from the subjects listed in the Course Program.

Subjects	Credit Points
LWPD901 Applied Criminal Law	6
LWPD902 Advanced Criminal Evidence	6
LWPD904 Advocacy Practicum	6
LWPD907 International Law and Criminal Jurisdiction	6
LWPD908 International Developments in Civil Rights	6
LWPD909 Studies in Transnational Crime and Transnational Criminal Law	6
LWPD910 Cooperation in International Criminal Justice	6
LWPD911 Introduction to Common Law Criminal Justice Systems	6
LWPD912 International Humanitarian Law	6
LWPD913 Prosecuting Cybercrime	6
LWPD914 Comparative Criminal Justice	6
LWPD915 Criminal Appellate Advocacy	6
LWPD916 Prosecuting Transnational Economic Crime	6
LWPD917 Military Prosecutions	6
LWPD918 Technical and Forensic Evidence	6
LWPD919 Special Studies in Prosecutions	6
LWPD921 Expert Evidence	6
LWPD922 Research Paper in Prosecutions	12
LWPD923 Prosecutorial Practice	6
LWPD924 Court Practice	6

NOTE: Not all subjects are offered every year. Students are advised to contact the Course Coordinator before enrolling.

## Graduate Certificate in Maritime Studies

Testamur Title of Degree:	Graduate Certificate in Maritime Studies
Abbreviation:	GCertMaritimeStud
Home Faculty:	Law
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	32
Starting Session(s):	Spring
Location:	Australian Defence College, Canberra
UOW Course Code:	1139, AN139
CRICOS Code:	N/A

## Overview

This program is designed to meet the professional education requirements of the Royal Australian Navy.

## Entry Requirements / Assumed Knowledge

The program is open to Officers of the Royal Australian Navy and their civilian equivalents in the Department of Defence who possess an undergraduate degree or its equivalent and/or satisfy the entry requirements of the Navy for entry to the Command and Staff College.



## Course Requirements

Students are required to satisfactorily complete 32 credit points from the subjects listed in the Course Program.

## Course Program

Subjects	Credit Points
CMP901	Strategy and Sea Power 8
CMP902	Law of the Sea 8
CMP905	Legal Regulation of Shipping 8
CMP908	Contemporary Maritime Issues in the Asia-Pacific Region 8

## Credit Towards Other Courses

Students who have successfully completed this program may articulate into the Master of Maritime Studies.

## Professional Recognition

This course meets the professional education requirements of the Royal Australian Navy.

## Graduate Certificate in Transnational Crime Prevention

Testamur Title of Degree:	Graduate Certificate in Transnational Crime Prevention
Abbreviation:	GCertTransCrimePrev
Home Faculty:	Law
Duration:	6 months full-time or part-time equivalent
Total Credit Points:	24
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1137
CRICOS Code:	037085G

## Overview

This program is designed for students from law enforcement agencies and the private sector, including police, customs, anti-corruption, immigration, banking, finance, accounting and other institutions from Australia, the Asia-Pacific region and beyond.

## Entry Requirements / Assumed Knowledge

Students should be graduates or have extensive relevant experience at a high level. The programs are delivered in English and require competency in the language.

English language requirements:

IELTS overall band 7.0 or

IELTS overall band 6.0 with attendance in either ELL901 English for Postgraduate Studies 1 in Autumn Session or ELL903 English for Postgraduate Studies 2 in Spring Session.

## Course Requirements

Students are required to satisfactorily complete 24 credit points, consisting of 6 credit points of core subjects and 18 credit points of electives, from the subjects listed in the Course Program.

## Course Program

Subjects	Credit Points
<b>Core Subjects</b>	
LEGL911	International Criminal Law 4
LEGL930	Legal Research and Writing 2

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

**Plus electives of at least 18 credit points, chosen from the following subjects:**

LEGL910	International Cooperation in Crime Prevention	4
LEGL912	Comparative Criminal Justice	4
LEGL920	Transnational Corporate Crime	4
LEGL921	Crime and Transnational Financial Transactions	4
LEGL922	Financial Investigations Practice and Procedure	4
LEGL923	Crime and Information Technology Regulation	4
LEGL931	Computing and Statistical Skills	2

**Credit Towards Other Courses**

Students who successfully complete this program are guaranteed entry into the Master of Transnational Crime Prevention.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## SUBJECT DESCRIPTIONS

### CMP 901 Strategy and Sea Power

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The course will cover the following issues: the Mahanian legacy, the great White Fleet, the Gunboat Diplomacy, the Washington Disarmament Conference, Power in the Pacific, the Pacific War, the Cold War and the Nuclear Age, ANZUS and the Radford-Collins Agreement, the Asia-Pacific Regional Context, Lehman and the Forward Maritime Strategy, the New World Order.

### CMP 902 Law of the Sea

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject will cover the following: the history of international ocean management regimes; the 1982 Law of the Sea Convention; the Law of Armed Conflict of the Sea; the international legal regulation of marine resources; the protection of the marine environment; and law and order at sea.

### CMP 903 Australian Maritime Power

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The course deals with the historical evolution of Australian maritime power from a naval perspective. Topics covered include: international oceans politics; the uses of the sea; the development of national oceans policy; regional maritime policy issues in the Asia-Pacific; maritime and security arrangements in the Asia-Pacific region; Australia's maritime science and technology plan; co-operative arrangements for regional maritime surveillance and maritime transport.

### CMP 904 Maritime Regulation and Enforcement

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The course focuses on the specific enforcement and regulatory powers, and responsibilities of states in the various maritime zones of jurisdiction, i.e. the territorial sea, the EEZ, continental shelf and high seas. Relevant policy and legal considerations in the development and enforcement of maritime jurisdiction will be covered.

### CMP 905 Legal Regulation of Shipping

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The course addresses the legal and regulatory frameworks relevant to shipping. It comprises two main elements: 1. The International

Regulatory Framework, including: the Law of the Sea Convention; the role of the IMO; IMO related conventions; regional regulatory frameworks; and the arrest and detention of ships. 2. The Australian Domestic Regulatory Framework, including: the constitutional framework; the administrative framework; the Navigation Act; marine insurance; and salvage.

### CMP 906 Comparative Oceans Policy

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The course analyses policy implications of increased sea use, comprising the following aspects: the conceptual basis for an integrated national ocean policy; the integration of national sectoral interests such as marine industries and other stakeholders; integrating ocean and coastal management; Australia's Oceans Policy; ocean policy developments in other parts of the world; and regional cooperation and management of shared ocean space, especially within the Southeast Asia.

### CMP 907 Maritime Security Law and Policy

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Maritime Security Law and Policy addresses the emerging international policy and regulatory framework being developed and implemented in response to post-9/11 maritime security threats. It also examines selected regional and national regulatory measures, including Australia's policy and legislative responses and relevant American measures. Topics to be covered include: the Law of the Sea Convention; the Convention for the Suppression of Unlawful Acts Against the Safety of Maritime Navigation 1988 (SUA Convention), including the Protocol for the Suppression of Unlawful Acts Against the Safety of Fixed Platforms Located on the Continental Shelf 1988 (and the 2005 Protocols to each); the International Ship and Port Facility Security (ISPS) Code; International Maritime Organization guidelines on combating piracy; regional responses by organizations such as APEC and the ASEAN Regional Forum; PSI and bilateral U.S. ship-boarding agreements; the Container Security Initiative and C-TPAT (U.S.); Australian responses such as JOPC, AMIS and new legislation; shortcomings and implementation challenges of new regulatory requirements; and emerging developments and technologies, such as long-range identification and tracking (LRIT) of vessels.

### CMP 908 Contemporary Maritime Issues in the Asia-Pacific Region

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This course deals with the leading maritime issues in the Asia-Pacific region, including: maritime territorial disputes (South China Sea, Taiwan, East China Sea, Kuriles); piracy/

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Arts	sea robbery; archipelagic sea lane passage; military operations in the EEZ; confidence-building; naval cooperation and competition; and maritime terrorism.
Commerce	<b>CMP 909 International Marine Environmental Law and Management</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject covers International marine environmental law and conventions, including Part XII of the Law of the Sea Convention and Agenda 21; the specific concerns with, and importance of, the marine environment; important international conventions impacting upon the use and protection of the marine environment, and the domestic and international legal and policy implications of those conventions; the state of world and regional fisheries, and the legal and political efforts to sustain fish stocks.
Creative Arts	
Education	<b>CMP 910 Selected Topic in Maritime Studies</b> Autumn Wollongong Distance Spring Wollongong Distance <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> 10,000 word research paper in an approved topic in maritime studies.
Engineering	
Graduate School of Business	<b>CMP 911 Research Project in Maritime Studies</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> 10,000 word research paper in an approved topic in maritime studies.
Health & Behavioural Sciences	<b>CMP 912 Minor Thesis in Maritime Studies</b> Autumn Wollongong On Campus Spring Wollongong On Campus <b>Credit Points:</b> 16 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> 20,000 word minor thesis in an approved topic in maritime studies.
Informatics	
Law	<b>CMP 913 Integrated Marine and Coastal Management</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject covers: 1. The processes and importance of marine and coastal environments 2. Marine and coastal resources, ecological systems and ecosystem services. 3. The factors involved with integrated coastal zone management. 4. Planning for integrated management: roles, components, parties and processes.
Science	

<b>CMP 914 International Fisheries Law</b> Spring Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The course addresses: 1. The Law of the Sea Convention framework for international fisheries law; 2. Shortcomings of the Law of the Sea framework; 3. Post-Law of the Sea fisheries instruments; 4. Fisheries enforcement; 5. Regional fisheries management organisations; 6. Fisheries sector dispute settlement.
<b>CMP 915 Marine and Coastal Resources Management</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject addresses: 1. Fisheries allocation and property rights and stakeholders; 2. Implementation instruments and national policy considerations; 3. National enforcement regimes; 4. Dispute settlement and litigation; 5. Ecological assessment of fisheries.
<b>LAW 930 Research Project in Natural Resources Law</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 24 <b>Pre-requisites:</b> 48 credit points at 900 level from the Natural Resources Law & Policy course <b>Co-requisites:</b> 48 credit points at 900 level from the Natural Resources Law & Policy course <b>Subject Description:</b> Content as arranged.
<b>LAW 950 Foreign Investment Law in the People's Republic of China</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> An analysis of the laws and procedures regulating foreign investment in, and trade with, the PRC. This subject will examine those laws relating to: joint ventures and other forms of foreign investment; revenue and finance law including taxation, customs duties and exchange control; foreign trade including compensation trade, technology transfer and intellectual property; and dispute resolution.
<b>LAW 960 Legal Studies For Professionals</b> Spring Wollongong On Campus <b>Credit Points:</b> 6 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject is divided into four components. The first is designed to develop a grasp of the nature and processes of law; the second introduces the area of commercial transactions; the third considers business structures; and the fourth explores the range of legal duties placed on professionals.

## **LAW 969 Occupational Health and Safety Law**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is concerned with the study of the legal regime governing health, safety and welfare of people at work in New South Wales. Its focus will be the Occupational Health and Safety Act 2000 and the Occupational Health and Safety Regulations 2001.

## **LAW 970 Banking and Financial Institutions Law**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** Bachelor of Commerce specialising in Finance or approval by the Head of Department

**Co-requisites:** None

**Subject Description:** The legal framework establishing, controlling and regulating financial institutions, including the Reserve Bank, banks, money market dealers and securities. The law dealing with financial money market instruments, particularly bills of exchange, promissory notes and cheques. Legal basis of the relationship between financial institutions and their clients. The law of securities – nature and types of securities; capacity and authority of borrowers entering transactions; remedies available to secured lenders.

## **LAW 993 Research Essay**

Spring Wollongong On Campus

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A supervised research paper of no more than 10,000 words. Information may be obtained from the Postgraduate Co-ordinator or Sub-Dean regarding the research essay.

## **LAW 994 Legal Research Proposal**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** LAW993 or equivalent

**Subject Description:** This subject will provide students with the skills to develop a research proposal suitable for research at Master's level, and to choose an appropriate methodology for carrying out the research. It will explore the range of approaches available to legal researchers at a time when legal research is in a considerable state of flux. Traditional approaches based on detailed analysis of case law and legislation will be compared and contrasted with socio-legal approaches which rely on theoretical and methodological inputs from other disciplines. In particular, the relevance of empirical research to the issues of implementation and law reform, both qualitative and quantitative, will be examined. After completing the subject, students will be in a position to pursue more detailed studies in relation to their methodology of choice.

## **LAW9302 Law of Business Organisations**

Autumn Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** LAW960

**Co-requisites:** None

Exclusions: LAW 302 Law of Business Organisations

**Subject Description:** This subject considers the key features of the different legal structures which people might adopt for their business and voluntary activities. The legal regulation of a partnership and a company incorporated under the Corporations Act 2001 (Cth), are considered in depth. Practical applications of the law, and public policy dimensions, are addressed throughout. Specific topics covered include: choice of form of business organisation; partnership (formation, internal and external relations, partnership property and dissolution); and corporations law, including registration, regulation, financial reporting and auditing, promoters and pre-registration contracts, internal and external relations, company finance, duties of directors and officers, member's rights, options available in cases of financial difficulty, and winding-up.

## **LAW9317 E-Commerce Law**

Spring Wollongong On Campus

**Credit Points:** 6

**Pre-requisites:** 24 credit points of

Master of Electronic Commerce

**Co-requisites:** None

Exclusions: LAW317, LLB317

**Subject Description:** The subject explores some of the more significant legal and regulatory issues and developments that e-commerce gives rise to. The main perspective is that of the on-line business and its risk management needs for achieving business success. This brings the interests of suppliers consumers and regulators into focus. We begin with an overview of the cyber-marketplace and relevant public policy considerations. Then we adopt a timeline approach focusing on those issues and developments most relevant at start up and once the business opens for on-line trading. Start up introduces intellectual property law, privacy and transactional security issues and responses. On-line trading raises identity, contract, consumer protection, payment systems and jurisdictional issues and responses. Finally, we turn to an area for special study. Students will be invited to select that area, for example from among the issues and developments relating to the infrastructure constituting the cyber-marketplace.

## **LAW9380 Law for Environmental Managers**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** 72 credit points in a discipline other than Law or enrolled in MEnvSc

**Co-requisites:** None

Exclusions: LAW334 or LAW380

**Subject Description:** The goal of this subject is to enable candidates to develop a critical understanding of the law in relation to environmental regulation and management in Australia, with particular emphasis on NSW, including the limitations of legal instruments in achieving environmental objectives.

## **LEGL910 International Cooperation in Crime Prevention**

Autumn Wollongong On Campus

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** None

	Arts
	Commerce
	Creative Arts
	Education
	Engineering
	Graduate School of Business
	Health & Behavioural Sciences
	Informatics
	Law
	Science

Arts	<p><b>Subject Description:</b> This subject examines the politics of international relations and major theories of state cooperation. It aims to provide students with the tools to examine and interpret the interplay between state power, global politics, and key international institutions so as to understand the contextual framework of controlling and combating transnational crime, and the ways in which states both cooperate and sometimes refuse cooperation. We look at transnational crime in a globalizing world and the mechanisms created by states to limit state failure, terrorism and criminal activities such as money laundering and the smuggling of drugs, people and arms. We also examine the creation of the International Criminal Court and its record in the apprehension and prosecution of those responsible for genocide and crimes against humanity.</p>
Commerce	
Creative Arts	<p><b>LEGL911 International Criminal Law</b> Autumn Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> International law related to national extraterritorial regulatory and enforcement jurisdiction, mutual assistance and extradition, and international crimes and tribunals. Includes an overview of relevant international instruments such as the UN Narcotic Drugs and Psychotropic Substances Treaty, the Statute of the International Criminal Court, the Draft UN Convention against Transnational Organised Crime, the Law of the Sea Convention, and bilateral instruments such as extradition treaties and mutual assistance treaties.</p>
Education	
Engineering	
Graduate School of Business	<p><b>LEGL912 Comparative Criminal Justice</b> Autumn Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Common Law, civil law and shari'a criminal justice systems are compared with the objective of developing an appreciation of different legal systems, cultures and ethics. International criminal procedure is examined including international policing cooperation.</p>
Health & Behavioural Sciences	
Informatics	<p><b>LEGL913 Intelligence and Policy in the New Security Environment</b> Autumn Wollongong Distance <b>Credit Points:</b> 4 <b>Pre-requisites:</b> LEGL911 International Criminal Law <b>Co-requisites:</b> None <b>Subject Description:</b> This subject will provide an understanding of intelligence, its purposes, its successes and failures and its history. It will examine the increasing intersection of law enforcement and national security and consider what this means for intelligence. It will describe the intelligence cycle and some of the broad methodologies of intelligence, particularly in the contexts of the information revolution and globalisation. It will explore the attributes of a good intelligence analyst. It will examine methods for cooperating between jurisdictions. And finally, it will consider ethical issues surrounding intelligence, such as the intelligence-policy relationship and issues related to privacy of personal data.</p>
Law	
Science	

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<p><b>LEGL920 Transnational Corporate Crime</b> Spring Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> LEGL911 International Criminal Law <b>Subject Description:</b> Fraud, money laundering, tax evasion and tax havens, securities offences, corporate structures including holding companies and subsidiaries, directors' responsibilities. Case studies and examples provided by relevant guest lecturers from government and commerce.</p>
<p><b>LEGL921 Crime and Transnational Financial Transactions</b> Autumn Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> LEGL911 International Criminal Law <b>Subject Description:</b> The subject focuses on the implications of fraud for the financial sector. It entails analysis of fraudulent activity in financial transactions, e.g. letters of credit, credit cards, electronic transfers, insurance, banking codes, and other banking procedures, together with the rules governing the disclosure of account holders and other forms of government record tracing.</p>
<p><b>LEGL922 Financial Investigations Practice and Procedure</b> Spring Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> LEGL911 International Criminal Law <b>Subject Description:</b> This subject focuses on the investigation of accounts and other relevant financial information held by financial organisations. It entails analysis of financial and other account information, auditing of accounts, and accountant and lawyer ethics and responsibilities eg. in relation to confidentiality, search warrants and subpoenas.</p>
<p><b>LEGL923 Crime and Information Technology Regulation</b> Spring Wollongong On Campus <b>Credit Points:</b> 4 <b>Pre-requisites:</b> None <b>Co-requisites:</b> LEGL911 International Criminal Law <b>Subject Description:</b> The subject focuses on the implications of developments in information technology for corporate and governmental security. It entails analysis of E-commerce regimes, theft of services and intellectual property and information piracy, dissemination of offensive materials, money laundering, vandalism, illegal interception, fraud, mobility and location of crime together with the rules governing the disclosure of account holders by Internet Service Providers (ISP) and forensic skills.</p>
<p><b>LEGL930 Legal Research and Writing</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 2 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The subject is intended to introduce students to the particular characteristics of legal research and writing relevant to the Master of</p>



Transnational Crime Prevention (MTCP) program. The subject content is similar to that offered by the Faculty in LLB9395 Legal Research and Writing.

### LEGL931 Computing and Statistical Skills

Autumn Wollongong On Campus

**Credit Points:** 2

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The subject is intended to introduce students to the application of information technology in legal and financial work, including information retrieval, litigation support, property (land) transactions, company searches, court and office management and the use of expert systems. The subject content is similar to that offered by the Faculty in LLB390.

### LEGL940 Transnational Organised Crime

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LEGL 911 International Criminal Law

**Co-requisites:** None

**Subject Description:** All students will undertake a common core module on the analysis and structure of transnational organised crime, including the sociology of the development of such crime. Thereafter, students will choose one case study on serious organised crime to be selected from Terrorism, Banking Fraud, Firearms Trafficking, Narcotics, People Trafficking, Environmental Crime, Maritime Crime and Intellectual Property Crimes. Examples and case studies will be provided by relevant experts from Government and Commerce.

### LEGL950 Transnational Crime Prevention Research Project

Autumn Wollongong On Campus

Spring Wollongong On Campus

Annual Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** 24 credit points of LEGL subjects

**Co-requisites:** None

**Subject Description:** Students will research and write a dissertation of approximately 10,000 words, on a subject selected by the student and approved by the subject coordinator. The student should approach the topic from an international and comparative law perspective drawing together different threads of the Master of Transnational Crime Prevention (MTCP) program undertaken by the student in light of the students experience and background. Where appropriate, assistance from external experts is encouraged.

### LEGL951 Special Studies in Transnational Crime and Prevention

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** 24 credit points of LEGL subjects

**Co-requisites:** None

**Subject Description:** This subject permits the inclusion in the Master of Transnational Crime Prevention (MTCP) program of an indepth study of a particular aspect of transnational crime prevention within the specialisation of a visiting expert, which would otherwise not be offered by the Faculty.

### LLB 843 Professional Practice

Autumn Wollongong Distance

Spring Wollongong Distance

**Credit Points:** 8

**Pre-requisites:** Bachelor of Laws degree or equivalent

**Co-requisites:** LLB844

**Subject Description:** The subject includes: Professional Responsibility and Competent Practice; Problem Analysis; Dispute Resolution; Cross-cultural Communication; Electronic Research; Writing and Drafting and Professional Experience Program. Students attend on-campus for an introductory session and thereafter meet the requirements of the Professional Experience program in law-related employment or in a placement arranged by the Practical Legal Training Unit. The requirements of this subject are not completed until all components of professional experience and assignments are completed.

### LLB 844 Practice Management

Autumn Wollongong Distance

Spring Wollongong Distance

**Credit Points:** 8

**Pre-requisites:** Bachelor of Laws degree or equivalent

**Co-requisites:** LLB843 or LLB396

**Subject Description:** This subject will introduce students to the statutory and professional requirements in relation to clients' Trust monies and securities, and to principles of practice management including computerised accounting and recording systems, costing, risk management and related matters. The subject contains three inter-related modules: Trust and Office Accounting; and Law Office Management.

### LLB 845 Conducting Litigation

Autumn Wollongong Distance

Spring Wollongong Distance

**Credit Points:** 16

**Pre-requisites:** Bachelor of Laws degree or equivalent

**Co-requisites:** (LLB396 or LLB843) and LLB844

**Subject Description:** The subject includes: Litigation Strategy; Civil Litigation Practice; Criminal Law Practice; Family Law Practice and Advocacy workshop.

### LLB 846 Commercial and Property Practice

Autumn Wollongong Distance

Spring Wollongong Distance

**Credit Points:** 16

**Pre-requisites:** Bachelor of Laws degree or equivalent

**Co-requisites:** (LLB396 or LLB843) and LLB844

**Subject Description:** The subject includes: Commercial Planning; Revenue Implications; Real Property Transactions; Commercial Contracts; Trusts, Wills and Estate Planning; Probate and Estate Administration; Small Business Practice. The subject provides an overview of particular aspects of commercial and property transactions, and related matters which affect clients in planning their business and personal affairs.

### LLB 930 Research Project in Natural Resources Law

*Not on offer in 2007*

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

Arts	
Commerce	
Creative Arts	
Education	
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

Arts	<b>LLB 950 Foreign Investment Law in the People's Republic of China</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> Refer to Faculty <b>Co-requisites:</b> None <b>Subject Description:</b> An analysis of the law and procedures regulating foreign investment in, and trade with, the PRC. This subject will examine those laws relating to: joint ventures and other forms of foreign investment; revenue and finance law including taxation, customs duties and exchange control; foreign trade including compensation trade, technology transfer and intellectual property; and dispute resolution.
Commerce	
Creative Arts	<b>LLB9100 Introduction to Legal Systems</b> Spring Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> An overall perspective on the Australian legal system and its role in the Australian social order; an introduction to the sources and authority of legal rules, the nature of legal institutions and practices, legal materials, reasoning and terminology. Aspects of substantive law will be used to illustrate general principles.
Education	
Engineering	<b>LLB9210 Law of Contracts</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> LLB9100 <b>Subject Description:</b> LLB9210 introduces students to the substantive law of contract. Using the casebook method, students study the legal principles governing the formation, performance and discharge of contracts. Topics covered include the requirements for a valid contract (agreement, consideration and intention to create legal relations), finding and interpreting the terms of a contract, the impact of vitiating factors (such as misrepresentation, mistake, undue influence, duress and unconscionability), the operation of the doctrines of privity and frustration, and the consequences of performance, defective performance or non performance of a contract.
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	<b>LLB9301 Evidence</b> Spring Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> LLB9210 <b>Co-requisites:</b> None <b>Subject Description:</b> Students will be introduced to the rules relating to the sources and admissibility of evidence in civil and criminal trials. Topics will include the burden and standard of proof; the examination of witnesses; credibility, character and tendency evidence; documentary evidence; and the rules in relation to opinion evidence, hearsay, confessions and admissions; illegally obtained evidence; discretions and warnings.
Law	
Science	<b>LLB9302 Law of Business Organisations</b> Autumn Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> LLB9210 <b>Co-requisites:</b> None <b>Subject Description:</b> The subject introduces the central concerns of a law of organisations, and of

the law of business organisations, and the public policies informing the development of the Australian legal response. The range of organisations available for business and non-business purposes and their legal regulation are overviewed. Partnerships and companies and their legal regulations are considered in depth, including current policy issues.

### LLB9303 Family, Children and Welfare

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9100

**Co-requisites:** None

**Subject Description:** The subject examines the legislative framework and common law principles applicable to both the legal recognition of relationships and the resolution of disputes arising from the breakdown of those relationships. Areas covered include: marriage; divorce; nullity; disputes in relation to children under the Family Law Act, 1975 (Cth); property and maintenance disputes for both married and non-married couples; child support and child maintenance; family violence under state and federal legislation; international abduction. The subject also looks at the related areas of state child welfare proceedings and adoption. The course examines what 'family' means today and the challenges our legal system faces in dealing with this fluid concept and recognizing diverse family structures and relationships.

### LLB9305 Property and Trusts A

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9210

**Co-requisites:** None

**Subject Description:** Consideration of the notion of property and interests in property; the distinctions between 'real, personal and intangible' property; legal and equitable interests in property and the notion of title; the notion of ownership; legal protection of property interests. The relationship of landlord and tenant; easements and covenants.

### LLB9306 Property and Trusts B

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9305

**Co-requisites:** None

**Subject Description:** The modern law of real property, including Torrens title, mortgages and co-ownership. Legal and equitable principles relating to the validity of gifts. The law of express trusts, including the powers and obligations of trustees, and remedies of the beneficiary for breach of trust.

### LLB9307 Law of Torts

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9100

**Co-requisites:** None

**Subject Description:** After a general introduction to legal and policy issues surrounding tort law, students will commence with a study of the torts of trespass, nuisance and the action on the case for wilful injury. Students will then spend the bulk of our time considering the principles governing liability in



negligence. Finally, students will consider the impact of statute law on common law tort principles, in particular the recent attempts to limit civil liability.

### **LLB9308 Public Law A**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9100

**Co-requisites:** None

**Subject Description:** The notion of the state and state power; limitations on state power; the constitutional structure of the Australian nation-state; the notion of division and separation of powers; mechanisms of accountability and control of government officials, including access to government information, the Ombudsman, merits review tribunals and judicial review.

### **LLB9309 Public Law B**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9308

**Co-requisites:** None

**Subject Description:** Division of power between Commonwealth and State legislatures; the structure and powers of State and Commonwealth governments, with special emphasis on the limitation of the legislative power of the Commonwealth; the place of the judiciary and judicial review of legislative and executive power; Commonwealth and State fiscal powers; express and implied constitutional rights; constitutional change; the Constitution and Indigenous Australians.

### **LLB9312 Legal Theory**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9100

**Co-requisites:** None

**Subject Description:** This subject addresses a range of fundamental issues in jurisprudence, revolving around the nature of law, the basis for legal authority, the scope and limits of law, and the relationship between law, morality and values such as justice, liberty and autonomy.

### **LLB9320 Commercial and Consumer Contracts**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** LLB9100

**Subject Description:** The special rules relating to common commercial contracts, such as contracts of agency, contracts for the sale of goods, insurance contracts, and contracts of carriage; statutory restrictions on contracts.

### **LLB9321 Banking Law**

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9210

**Co-requisites:** None

**Subject Description:** LLB9321 Finance & Security is designed to develop in students a sound understanding of the law governing financial institutions in Australia, and the manner in which these institutions are regulated. The relationship between financial institutions and their customers will be examined, along with the impact of recent technological developments

on this relationship and on the business of banking. The law dealing with cheques and other negotiable instruments will be discussed in detail. The issue of security for transactions with financial institutions will be analysed, along with the position of banks as creditors when a customer becomes bankrupt.

### **LLB9330 Law of Employment**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9210

**Co-requisites:** None

**Subject Description:** An overview of the rights and duties of individual employers and employees under common law and selected legislation, including: formation, content and termination of the contract of employment; implied duties of employers and employees; remedies at common law; unfair dismissal legislation; statute-derived employment conditions; unfair work contracts; occupational health and safety.

### **LLB9331 Intellectual Property Law**

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9100

**Co-requisites:** None

**Subject Description:** This subject provides an overview of the field of intellectual property law commencing with an analysis of the 2 major and oldest forms of intellectual property – copyright and patents. The course then moves on to the methods of protecting business reputation both at common law/equity, and through the registration of trade marks. Other more recent forms of intellectual property are also covered, such as plant breeder's rights, designs and circuit layouts.

### **LLB9332 Labour Regulation**

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the legal regulation of work and labour relations in Australia. After analysing ideas and methods underpinning regulation of the 'labour market' by law, the current system under the Workplace Relations Act (Workchoices amendments) will be studied by reference to the history of labour regulation in Australia (common law, compulsory arbitration), comparisons with other countries, and international law under the International Labour Organisation. The subject will study regulation of: institutions and relationships, standard minimum pay and conditions, grievance and dispute resolution (including unfair dismissal), individual and collective bargaining and agreements, regulation of trade unions, law of strikes and industrial action. Students will be assessed in this subject on their critical analysis and evaluation of complex issues, with a group research presentation, an individual research essay and a final exam.

### **LLB9334 Environmental Law**

*Not on offer in 2007*

**Credit Points:** 8

**Pre-requisites:** LLB9100

**Co-requisites:** None

**Subject Description:** The goal of this subject is to enable candidates to develop a critical understanding

Arts	
Commerce	
Creative Arts	
Education	
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

Arts	of the law in relation to environmental regulation and management in Australia, with particular emphasis on NSW, including the limitations of legal instruments in achieving environmental policy objectives, the assessment of development proposals and the role of the Land & Environment Court.
Commerce	<b>LLB9335 Anti-Discrimination Law</b> Spring Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> LLB9100 <b>Co-requisites:</b> None <b>Subject Description:</b> An analysis and appraisal of laws prohibiting discrimination in Australia on various grounds, including: sex, marital status, race, disability, age, sexual preference and transgender. Laws prohibiting harassment and vilification will also be examined. The subject includes exploration of the aims and social context of anti-discrimination legislation, as well as related concepts such as equal opportunity, social justice and affirmative action. Examination of processes for complaints, dispute resolution and enforcement, and powers of investigative and adjudicatory bodies.
Creative Arts	
Education	<b>LLB9336 Regulation of Business</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> LLB9100 <b>Co-requisites:</b> None <b>Subject Description:</b> This course is concerned with the law controlling the sale and distribution of products and services, credit, restrictive trade practices and other aspects of the commercial environment. It examines the relation of production and consumption in the economy and the law, the policies and legal rules intended to protect consumers, and legal remedies and institutions which are designed to offer assistance to consumers. Consumer protection is related to business regulation and restrictive trade practices (competition law) since both these areas seek to supplement and support market and other mechanisms which ensure that consumers get the goods and services that they want, at a fair price, and without risk of injury or deception. There is also an examination of consumerism as a world-wide phenomenon with specific emphasis on the international consumer movement and consumer rights as well as anti-competitive concerns about intellectual property in the context of the multilateral trading system of the WTO.
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	<b>LLB9337 Comparative Studies in Law</b> Spring Wollongong On Campus <b>Credit Points:</b> 8 <b>Pre-requisites:</b> None <b>Co-requisites:</b> LLB9100 <b>Subject Description:</b> A comparison of the French civil law with the common law of England and Australia, with the objective of developing an appreciation of different legal systems and approaches.
Law	<b>LLB9338 International Trade Law</b> <i>Not on offer in 2007</i> <b>Credit Points:</b> 8 <b>Pre-requisites:</b> A Law degree <b>Co-requisites:</b> None <b>Subject Description:</b> Public and private law aspects of international trade and investment, including contracts,
Science	

transport, insurance and the settlement of international commercial disputes, the role of the World Trade Organisation, its regime of trade regulation and dispute resolution mechanisms, multilateral agreement on trade in services, and the financing of international transactions.

### LLB9341 Revenue Law

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Revenue Law, or taxation law, is one of the highly technical fields of law bringing together economic, accounting and financial concepts into a legal construct for the determination of how the costs of good government are to be shared among the members of society. Taxation pervades everyone's life in some way, whether in the form of income tax, for instance, or some form of consumption or other tax. LLB9341 is confined to the Income Tax Assessment Act (1936/97), the Fringe Benefits Tax Assessment Act and associated legislation, these fields alone provide more than enough content for a one semester subject, but are essential for those students seeking registration as CPAs or Chartered Accountants after completing their Degree.

### LLB9343 International Law

Autumn Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** LLB9100

**Subject Description:** Sources of international law; the relationship between domestic law and international law; the law of treaties; the structure of the international legal system; statehood, state jurisdiction, state responsibility, nationality and refugees.

### LLB9344 Indigenous Peoples and Legal Systems

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9100

**Co-requisites:** None

**Subject Description:** This subject is an introduction to the relationship between Indigenous and non-Indigenous laws and legal systems in Australia. It considers the nature and status of Aboriginal and Torres Strait Islander laws, and explores some of the specific legal issues of current relevance to Indigenous peoples in Australia. Topics include the impact of European colonisation, over-representation in the criminal justice system, land rights and native title, recognition of Aboriginal law, and self-determination.

### LLB9348 Media Law

Spring Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** LLB9100

**Co-requisites:** None

**Subject Description:** The media plays an increasingly significant role in informing and constituting our society. The subject studies the main areas of Australian law that particularly affect the media and the diverse and competing public policy considerations that do or might justifiably underlie and shape that law.

**LLB9349 Feminism and Law***Not on offer in 2007***Credit Points:** 8**Pre-requisites:** LLB9100**Co-requisites:** None

**Subject Description:** This subject introduces the major themes in feminist thought and modes of contemporary feminist scholarship and applies them to law, legal institutions and the practice of law in Australia. It provides a foundation for future analysis of substantive and procedural law by students and subjects the institutions of law and their practitioners to scrutiny from a feminist perspective.

**LLB9350 Special Study in Law A**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 8**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** An indepth study of a selected area of law.

**LLB9351 Special Study in Law B**

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 8**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** A study in depth of a selected area of law.

**LLB9360 Foreign Investment Law in the People's Republic of China***Not on offer in 2007***Credit Points:** 8**Pre-requisites:** LLB9100**Co-requisites:** LLB9210

**Subject Description:** An analysis of the law and procedures regulating foreign investment in, and trade with, the PRC. This subject will examine those laws relating to: joint ventures and other forms of foreign investment; revenue and finance law including taxation, customs duties and exchange control; foreign trade including compensation trade, technology transfer and intellectual property; and dispute resolution.

**LLB9362 Advanced Revenue Law**

Autumn Wollongong On Campus

**Credit Points:** 8**Pre-requisites:** LLB9341**Co-requisites:** None

**Subject Description:** In this subject, students will be exploring selected aspects of income tax, capital gains tax, fringe benefits tax, the new goods and services tax and state taxes. The course is run on an intensive basis and features presentations from tax professionals, the Australian Tax Office, and the NSW Office of State Revenue.

**LLB9365 International and Comparative Intellectual Property Law***Not on offer in 2007***Credit Points:** 8**Pre-requisites:** None**Co-requisites:** LLB9100

Exclusions: LAW365, and LLB365

**Subject Description:** The subject will examine fundamental IP issues under the provisions of the major IP conventions, as well as domestic law of certain countries in Asia and the Pacific. Topics may include: the interface between IP protection and international trade; IP rights and parallel importation; the civil law concept of droit d'auteur ('author's right system') compared with 'copyright' in common law jurisdictions; IP evolving in cyberspace and access to and use of information technologies; the patenting of biotechnological products and processes, as well as socio-economic and ethical implications of biotechnological patenting; the protection of plant varieties and access to genetic resources and traditional knowledge; the patenting of pharmaceuticals and the problems relating to accessibility to medicines; the developing importance of geographical indications; the interface between competition law and IP law; protection of well-known marks; a comparative examination of the common law and civil law concepts of passing off and unfair competition; and WIPO Development Agenda.

**LLB9395 Legal Research and Writing**

Spring Wollongong On Campus

**Credit Points:** 2**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** An introduction to the location and use of primary and secondary legal materials, including the use of computers in retrieving legal material; observation of legal practice in courts and elsewhere; analysis of legal documents; development of clear, concise and simple styles of presenting ideas and arguments in writing; citation of legal materials.

**LWPD901 Applied Criminal Law***Not on offer in 2007***Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** This subject complements Advanced Criminal Evidence by examining commonly encountered, and frequently complex, issues of the substantive criminal law. To prosecute or undertake criminal defence effectively, students must understand not only the laws of evidence but also the substantive criminal laws relevant to the crime(s) charged and available defences. Criminal law as taught at the undergraduate level introduces basic working principles such as mens rea, actus reus etc. This subject seeks to build on these fundamental understandings by considering how these principles apply in more complex fact situations, as may be raised in cases of alleged party liability and inchoate offences.

**LWPD902 Advanced Criminal Evidence**

Autumn Wollongong Distance

Spring Wollongong Distance

**Credit Points:** 6**Pre-requisites:** None**Co-requisites:** None

**Subject Description:** A sound knowledge of the laws of evidence is fundamental to prosecuting. This subject seeks to expand upon undergraduate teaching by examining in greater detail the laws of evidence as they specifically apply in the criminal context. A detailed treatment of prosecution relevant aspects of criminal evidence including: the oath; unsworn

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evidence; competence and compellability; judicial notice; rule in Browne v Dunn; real evidence; exhibits; probity v prejudice test; multiple accused / charges and admissibility; hostile/refractive witnesses; the ultimate issue; hearsay and exceptions; inferences/circumstantial evidence; best evidence rule; 'accomplice' testimony; privilege; similar fact; character evidence; corroboration; previous convictions; statements made in presence of accused; admission by action; lies and false alibi; motive.

### LWPD906 Criminal Defence in Practice

*Not on offer in 2007*

**Credit Points:** 4

**Pre-requisites:** None

**Co-requisites:** LWPD901 Applied Criminal Law and LWPD902 Advanced Criminal Evidence

**Subject Description:** This subject provides a thorough introduction to criminal defence practice. Students will learn the unique responsibilities and ethical obligations attaching to defence counsel, both in theory and as applied in practice. Students will also learn about the key relationships between defence counsel and other entities, such as the Court, witnesses, prosecution, media and police.

### LWPD907 International Law & Criminal Jurisdiction

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the relationship between international law and criminal jurisdiction. Topics include: the recognised sources of international law; the relationship between international and domestic law; the distinctions between international and transnational law and between prescriptive and enforcement jurisdiction; the legally accepted justifications and uses for extraterritorial jurisdiction and the complexities of universal jurisdiction; the roles of mutual legal assistance and extradition; the jurisdiction of international criminal tribunals; sovereign and diplomatic immunity; and military as compared to civilian criminal jurisdiction in the context of terrorism trials.

### LWPD908 International Developments in Civil Rights

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The law enforcement v civil rights balance see-saws with societal attitudes and with advancements in technologies available to the State and countering technologies available to the citizen. This balance is examined in light of security measures introduced since the attacks on the US on September 11, 2001 with particular focus on Australia's counter terrorism legislation. Also examined are relevant international civil rights instruments and significant decisions of specialist bodies such as the European Court of Human Rights and of eminent domestic courts of final appeal.

### LWPD909 Studies in Transnational Crime & Transnational Criminal Law

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the structure and operations of key organised criminal and terrorist networks as well as their common modus operandi. Specific topics include the deleterious effects of corruption and the trafficking routes of drug, people and arms traffickers. Additionally, this subject examines the principal international responses to these networks, including the international conventions against drugs, trafficking, corruption and organised crime, their protocols and the international agencies established to enforce them.

### LWPD910 Cooperation in International Criminal Justice

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the political imperatives that govern the operation of mutual legal assistance and transnational cooperation. Theories of international cooperation are discussed before an examination of cooperation in criminal matters. The subject considers where cooperation is and is not forthcoming from states and some of the explanations about why states act in the ways they do. The subject deals with legal issues but is taught from a political viewpoint, concentrating on the realpolitik of international relations. Particular issues addressed are state security and how it affects cooperation in criminal justice and specific cases of bilateral and multilateral cooperation in prosecuting the perpetrators of genocide, politicide, homicide, drug trafficking, human trafficking and other crimes. It deals both with UN international criminal tribunals and the other bodies created by states to control or manage crime and to prosecute criminals.

### LWPD911 Introduction to Common Law Criminal Justice Systems

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject covers the historical evolution and modern content of the common law's criminal justice processes and principles. Areas covered include separation of powers, the doctrine of stare decisis, processes of judicial reasoning, the roles of the prosecutor, defence counsel, judge and jury and the criminal justice process. The criminal justice process is exemplified by tracing a criminal prosecution from charging through to sentencing.

### LWPD912 International Humanitarian Law

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** As attested by the creation of the International Criminal Court, international

humanitarian law is of ever increasing significance. Moreover, International Humanitarian Law is enforceable, and is being enforced, through both international and domestic courts. This subject examines not only the substantive laws that comprise International Humanitarian Law but also the critical aspect of enforcement. Topics include: The Geneva Conventions; War crimes; Crimes against humanity; Goals of International Criminal Justice; Competing models for delivery of International Criminal Justice: international tribunals and courts; hybrid bodies; domestic prosecutions; truth and reconciliation commissions.

### **LWPD913 Prosecuting Cybercrime**

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Cybercrime poses unique challenges to law enforcement and prosecution. Cybercriminals are easily conferred, 'virtual anonymity'. Their crimes frequently span multiple jurisdictions. Criminal laws developed for the 'real world' may be inapplicable to cyberspace. Encryption and other technological advances frequently stymie criminal investigation - yet efforts to counter the cybercriminal's tools-in-trade raise valid civil liberties and privacy concerns. The gathering of digitally stored information often entails highly technical procedures that, upon any ensuing prosecution, will require explication to the court. This subject addresses the unique challenge of cybercrime, the range of responses available and the techno-legal knowledge required to successfully prosecute cybercrime offences.

### **LWPD914 Comparative Criminal Justice**

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Domestic prosecution has an ever-expanding international dimension. Prosecutions of foreign nationals, extraditions, reliance upon mutual legal assistance arrangements and off-shore tracing of criminal proceeds are becoming commonplace. The imperatives of cross-border law-enforcement cooperation are such that prosecutors must come to understand the operation of foreign criminal justice systems. Moreover, international criminal tribunals are ascending both in stature and, through their shaping of international human rights norms, legal significance. These tribunals are a multi-jurisdictional melting pot of procedure and substantive law. This subject compares what may be very loosely termed the 'Adversarial' and 'Inquisitorial' systems as well as those systems founded upon Shari'a law. The criminal process and, in particular, the specific role of the prosecutor within the inquisitorial and Shari'a systems is examined.

### **LWPD916 Prosecuting Transnational Economic Crime**

Autumn Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject provides students with an understanding essential to the prosecution of modern

economic crime by examining the anti money laundering and proceeds of crime environment. The subject considers money laundering typologies and the use of corporate structures, financial arrangements and financial facilities, tax evasion and tax havens in the context of money laundering. International arrangements and developments intended to reduce the incidence of money laundering are also examined. In addition the subject considers proceeds of crime issues by examining civil and conviction based confiscation and associated procedures. The subject will look at restraining orders and other procedures intended to locate, restrain and forfeit assets subject to proceeds of crime proceedings. The subject seeks to both impart highly practical knowledge relevant to the prosecution of economic crime and an awareness of related issues.

### **LWPD917 Military Prosecutions**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject entails a study of military laws and processes. Subjects include: the evolution of military law; procedure in Defence Force Magistrate hearings, Boards of Inquiry and General and Field Courts Martial; the functions of convening authorities; the roles and responsibilities of Judge Advocates, Director Army Legal Services and Defence Force Magistrates; conflicts of interest; appeals processes; legal concepts of mens rea in the context of laws governing disciplined forces; defences available in military law; analysing Terms of Reference; the impact of developments in international human and civil rights law; jurisdiction and the incorporation and application of civilian laws; the principles governing the reception of evidence in military hearings and the application of principles applied in civilian courts.

### **LWPD918 Technical & Forensic Evidence**

Spring Wollongong Distance

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject introduces students to those forensic sciences and technical practices most commonly encountered in criminal trials and provides insights as to how derived evidence is commonly presented. The dominant themes are DNA analysis and forensic psychiatry. Lesser emphasis is placed on pathology, crime scene interpretation (including blood pattern interpretation), the analysis of prints and marks and forensic imaging, (including comparative imaging in ballistics and finger/foot/shoe prints). Class matching & statistical analysis is also discussed in these contexts.

### **LWPD919 Special Studies in Prosecutions**

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject permits the inclusion of an in-depth study of a particular aspect of prosecutions that is within the specialisation of a visiting or resident expert and that otherwise would not be offered. Subject content is dependent upon the specialisations of visiting experts.

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Arts	<b>LWPD920 Prosecutions Research Project</b>		
	Autumn	Wollongong	Distance
	Spring	Wollongong	Distance
Commerce	Summer 2007/2008 Wollongong Distance		
	<b>Credit Points:</b> 12		
	<b>Pre-requisites:</b> None		
Creative Arts	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> This subject affords students the opportunity to complete a substantial piece of academic writing and to explore particular areas of personal interest or relevance. Students will research and write a dissertation of approximately 12,000 words together with a briefing précis on a subject selected by the student and approved by the subject co-ordinator. The student should approach the topic from an international and comparative law perspective drawing together different threads of the Masters of Laws (Prosecutions) program in light of the student's experience and background. The dissertation must approach the area constructively and make recommendations for reform, legislative, institutional or otherwise. Assistance from external experts is encouraged.		
Education	<b>LWPD921 Expert Evidence</b>		
Engineering	<i>Not on offer in 2007</i>		
	<b>Credit Points:</b> 6		
	<b>Pre-requisites:</b> None		
Graduate School of Business	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> Effective prosecution entails an understanding of the laws governing the reception of expert evidence. Expert evidence, in turn, poses unique challenges in terms of advocacy. This subject examines these legal issues and teaches students techniques for leading expert evidence and cross-examining expert witnesses. It does this in the context of forensic science.		
Health & Behavioural Sciences	<b>LWPD922 Research Paper in Prosecutions</b>		
	Autumn	Wollongong	Distance
	Spring	Wollongong	Distance
Informatics	Summer 2007/2008 Wollongong Distance		
	<b>Credit Points:</b> 12		
	<b>Pre-requisites:</b> None		
Law	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> This subject affords students the opportunity to complete a substantial piece of academic writing relevant to prosecutorial practice and to explore particular areas of personal interest or relevance. Students will submit a proposal on and then research and write up a dissertation of approximately 12,000 words on a subject selected by the student and approved by the subject co-ordinator. Assistance from external experts is encouraged.		
Science	<b>LWPD923 Prosecutorial Practice</b>		
	Autumn	Wollongong	Distance
	Spring	Wollongong	Distance
	<b>Credit Points:</b> 6		
	<b>Pre-requisites:</b> None		
	<b>Co-requisites:</b> None		
	<b>Subject Description:</b> This subject provides a thorough introduction to the prosecutorial office and the unique responsibilities and ethical obligations attaching to it, both in theory and as applied in practice, for example as in the consideration of charges and pleas, leading exculpatory evidence, jury selection etc. Students will also learn about the key relationships between the prosecutor and other entities, such as the Court, witnesses, defence, media and police.		

## LWPD924 Court Practice

*Not on offer in 2007*

**Credit Points:** 6

**Pre-requisites:** None

**Co-requisites:** LWPD904 Advocacy Practicum

**Subject Description:** A trial is more than a forum for the clinical application of the laws of evidence to evidence itself. Rather, the criminal trial is a dynamic process practised within a constrained environment and entailing strategic decisions as to, for example, the evidence to be adduced, how it is to be adduced and what pre-trial applications might be useful. This subject teaches the technical and strategic aspects of the criminal lawyer's work in trial and at the sentencing stage. Role of judge and jury; jury selection and sequestering; the opening address; using the expert witness; prior inconsistent statements; adoption of out of court statements; hostile and refractory witnesses; 'giving evidence' through questioning and other improper modes of examination; hypothetical questions; agreed facts; order of witnesses; interpreters; technology in the courtroom; 'aids' for the jury; using the transcript; avoiding appealable error; considerations on summing up and defence closing addresses; judicial bias; verdict delay and instructions to the jury; majority verdicts. Principles and types of sentencing; the prosecutor at sentencing; the totality principle; 'taking into account' and sample charges; reports for the court.

# Faculty of Science

## Member Units

School of Biological Sciences  
Department of Chemistry  
School of Earth and Environmental Sciences

## Courses Offered

Doctor of Philosophy

- Biological Sciences
- Chemistry
- Environmental Science
- Geography
- Geology
- Physics\*

Master of Science – Research

- Biological Sciences
- Biotechnology
- Chemistry
- Geography
- Geology
- Medicinal Chemistry
- Physics\*

Master of Environmental Science – Research

Master of Environmental Science – Advanced

Master of Environmental Science

Master of Arts (Geography)

Master of Science

- Biotechnology
- Environmental Biology
- Chemistry
- Coastal Planning and Management
- Medicinal Chemistry
- Medical Radiation Physics\*
- Geography or Geology

Graduate Diploma in Science

- Biological Sciences
- Chemistry
- Geography
- Geology
- Physics\*

\*Refer to the Faculty of Engineering

For tuition fee information please see the following:

Domestic – [www.uow.edu.au/student/finances/studentcontributions.html](http://www.uow.edu.au/student/finances/studentcontributions.html)

International – [www.uow.edu.au/prospective/international/fees/](http://www.uow.edu.au/prospective/international/fees/)

This publication contains information which is current at December 2006. 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/).

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## Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Science
Duration:	3 years full-time or part-time equivalent
Total Credit Points:	48 per year
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	201
CRICOS Code:	001243F (Lab), 020192K (non-Lab)

### Overview

Candidates complete a major thesis and undertake a research project arranged in consultation with an appropriate member of staff, and approved by the Head of Department or School, before enrolment. Doctoral theses must make a major original contribution to scientific knowledge in the chosen area of research.

### Entry Requirements / Assumed Knowledge

An Honours degree of at least four years duration in a relevant discipline at Class II, Division 2, or higher (or equivalent).

### Course Requirements

Candidates complete a Doctoral dissertation of approximately 60,000 – 80,000 words in length.

Students enrol in the appropriate major thesis subject.

Disciplinary Areas Available

- Biological Sciences
- Chemistry
- Environmental Science
- Geography
- Geology
- Physics\*

\*Refer to Faculty of Engineering

### Other Information

For further information contact the Faculty of Science Office, Room 41.258, or telephone (02) 4221 3481.

Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/).

Specific enquiries should be directed to the appropriate Academic Unit: School of Biological Sciences (02) 4221 3013, Department of Chemistry (02) 4221 3509 or School of Earth and Environmental Sciences (02) 4221 3721.

## Master of Science - Research

Testamur Title of Degree:	Master of Science - Research
Abbreviation:	MSc - Res
Home Faculty:	Science
Duration:	1.5 years full-time or part-time equivalent
Total Credit Points:	72
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1304
CRICOS Code:	042532B, 042534M (Geography)



## Overview

Courses provide for the specific needs and interests of students wishing to obtain experience in a modern research program.

## Entry Requirements / Assumed Knowledge

Minimum entry requirement is a Bachelor degree with a major study in the relevant discipline.

## Course Requirements

The course consists of 72 credit points to be completed in a maximum time of two years (four sessions), as follows:

- 24 credit points of coursework; and
- 48 credit point research project.

Students entering with a degree at the level of at least a Bachelor Honours Class II, Division 2 may be awarded the 24 credit points of coursework as advanced standing based on prior research training.

Students undertaking the 24 credit points of coursework will select appropriate postgraduate subjects from those offered in the discipline in consultation with the Head of Department or School or the Postgraduate Coordinator.

For detailed possible coursework subject programs consult the Master of Science by coursework degree in the relevant discipline.

Disciplinary Areas Available

- Biological Sciences
- Biotechnology
- Chemistry
- Geography
- Geology
- Medicinal Chemistry
- Physics\*

\*Refer to Faculty of Engineering

## Other Information

For further information contact the Faculty of Science Office, Room 41.258, or telephone (02) 4221 3481.

Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/)

Specific enquiries should be directed to the appropriate Academic Unit: School of Biological Sciences (02) 4221 3013, Department of Chemistry (02) 4221 3509 or School of Earth and Environmental Sciences (02) 4221 3721.

## Master of Environmental Science - Research

Testamur Title of Degree:	Master of Environmental Science - Research
Abbreviation:	MEnvSc - Res
Home Faculty:	Science
Duration:	1-2 years full-time depending on entry qualifications
Total Credit Points:	72
Delivery Mode:	Flexible and face-to-face
Starting Session(s):	Autumn and Spring
Location:	Wollongong
UOW Course Code:	1312
CRICOS Code:	042533A

## Overview

This program involves a major project in one of the many research areas of environmental science available in the Faculty. The research project will provide information for improved understanding of how ecosystems work, for solving environmental problems of immediate concern and to assist policy makers in developing new strategies and legislation for environmental management. This degree provides the opportunity for students to contribute to this work by undertaking a major research project in one of the areas of environmental science within the Faculty.

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## Entry Requirements / Assumed Knowledge

A degree with Honours in environmental science, science or engineering at a level of at least Class II, Division 2, or a Master of Environmental Science or Master of Science with credit average, or equivalent qualifications or appropriate publications and work experience.

Entry must be approved by the Coordinator and, if thesis work is being supervised by staff from an Academic Unit, the Head of that Unit.

## Course Requirements

The course consists of 72 credit points to be completed in a maximum time of 2 years (4 sessions), as follows:

- a 48 credit point research project (THES924 Thesis); and
- a maximum of 24 credit points of subjects, chosen from the Environmental Science postgraduate schedule in consultation with the Coordinator of Environmental Science.

Special Note: Students entering with an Honours degree at the level of at least Bachelor Honours Class II, Division 2, or a Master of Environmental Science degree (or equivalent) will normally be awarded advanced standing for the 24 credit points of coursework, except for candidates with no background in environmental science who will be required to complete ENVI922 Scientific Basis of Environmental Management (12 cps).

## Course Program

Subjects	Session	Credit Points
THES924 Thesis		48
Plus a maximum of 24 credit points of subjects chosen from those listed below in consultation with the Coordinator of Environmental Science		
ENVI923 Environmental Planning	Autumn	12
ENVI922 The Scientific Basis of Environmental Management	Spring	12
ENVI910 Directed Studies in Environmental Chemistry	Annual, Autumn or Spring	12
ENVI911 Directed Studies in Ecology	Annual, Autumn or Spring	12
ENVI913 Directed Studies in Earth Sciences	Annual, Autumn or Spring	12
ENVI919 Directed Studies in Environmental Science	Annual, Autumn or Spring	12
EESC902 Advanced Coastal Environments	Spring	12
EESC903 Advanced Fluvial Geomorphology and Sedimentology	Autumn	12
EESC904 Advanced Geographic Information Systems	Spring	12
EESC905 Advanced Remote Sensing	Spring	12
EESC912 Advanced Soils, Landscapes and Hydrology	Spring	12
EESC914 Fundamentals of Spatial Science	Autumn or Spring	12
EESC950 Advanced Topic A	Annual, Autumn or Spring	12

## Other Information

For further information contact the Faculty of Science Office, Room 41.258, or telephone (02) 4221 3481.

The Degree Coordinator is Professor John Morrison, School of Earth and Environmental Sciences, Room 19.G012.

## Master of Environmental Science - Advanced

Testamur Title of Degree:	Master of Environmental Science - Advanced
Abbreviation:	MEnvSc Adv
Home Faculty:	Science
Duration:	2 years full-time or part-time equivalent
Total Credit Points:	96
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn and Spring
Location:	Wollongong
UOW Course Code:	1412
CRICOS Code:	048589C

### Overview

This degree is aimed primarily at international students, and combines research and coursework to provide a two-year (or part-time equivalent) degree for Science and Engineering graduates or others, with a limited undergraduate background in the environmental science area.

### Entry Requirements / Assumed Knowledge

Bachelor degree in Environmental Science, Science, Applied Science, Agriculture, Forestry, Veterinary Science or Engineering, or equivalent tertiary qualifications and/or professional experience. Students must consult with the Coordinator of Environmental Science for approval of overall entry.

### Course Requirements

Candidates must complete the three core subjects plus a Thesis of either 24 or 32 credit points plus elective subjects to total 96 credit points, as set out below.

### Course Program

Subjects		Session	Credit Points
ENVI922	The Scientific Basis of Environmental Management	Spring	12
ENVI923	Environmental Planning	Autumn	12
STS929	Studies in Resource and Environmental Policy	Autumn	8
<b>Plus one of the following:</b>			
ENVI930	Thesis	Annual, Autumn or Spring	24
ENVI931	Thesis	Annual, Autumn or Spring	32
<b>Plus one or two of the following:</b>			
LAW9380	Law for Environmental Managers	Spring	8
ENVE985	Environmental Engineering	Autumn	8
STAT955	Sample Surveys and Experimental Design	Autumn	8
STS300	The Environmental Context	Autumn	8
<b>Plus at least two of the following:</b>			
ENVI910	Directed Studies in Environmental Chemistry	Annual, Autumn or Spring	12
ENVI911	Directed Studies in Ecology	Annual, Autumn or Spring	12
ENVI912	Directed Studies in Land Resources	Annual, Autumn or Spring	12
ENVI913	Directed Studies in Earth Sciences	Annual, Autumn or Spring	12

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## Other Information

For further information contact the Faculty of Science Office, Room 41.258, or telephone (02) 4221 3481, email [trina@uow.edu.au](mailto:trina@uow.edu.au).

The Degree Coordinator is Professor John Morrison, School of Earth and Environmental Sciences, Room 19.G012.

## Master of Environmental Science

Testamur Title of Degree:	Master of Environmental Science
Abbreviation:	MEnvSc
Home Faculty:	Science
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn and Spring
Location:	Wollongong
UOW Course Code:	1500
CRICOS Code:	026171M

## Overview

This program is designed for applicants who wish to extend their knowledge of science relating to the environment, by studying areas not covered in their undergraduate Science or Engineering degree (including environmental policy, planning and management).

## Entry Requirements / Assumed Knowledge

Completion of a recognised Bachelor Degree, either: Environmental Science; Science; Applied Science; Agriculture; Forestry; Veterinary Science or Engineering (or equivalent qualifications and/or professional experience).

**Alternative Entry Criteria:** The person would be required to have been working in a position for at least five years which, if they left, would be filled by an appropriately qualified graduate. Normally a written statement from a suitably qualified person, usually a senior manager with a strong science background, is required as confirmation of the necessary skills.

## Course Requirements

Students will undertake a program of at least 48 credit points, comprising two compulsory subjects, and optional subjects selected from the subjects listed below and approved by the Coordinator of the degree.

## Course Program

Subjects	Session	Credit Points
ENVI922 The Scientific Basis of Environmental Management	Spring	12
ENVI923 Environmental Planning	Autumn	12
Plus at least 24 credit points chosen from:		
STS929 Studies in Resource and Environmental Policy	Annual, Autumn, or Spring	8
ENVI910 Directed Studies in Environmental Chemistry	Annual, Autumn, or Spring	12
ENVI911 Directed Studies in Ecology	Annual, Autumn, or Spring	12
ENVI912 Directed Studies in Land Resources	Annual, Autumn, or Spring	12
ENVI913 Directed Studies in Earth Sciences	Annual, Autumn, or Spring	12
ENVI919 Directed Studies in Environmental Science	Annual, Autumn, or Spring	12

Subjects		Session	Credit Points
EESC901	Advanced Plate Tectonics, Macrotopography and Earth History	Autumn	12
EESC902	Advanced Coastal Environments	Spring	12
EESC903	Advanced Fluvial Geomorphology and Sedimentology	Autumn	12
EESC904	Advanced Geographic Information Systems	Spring	12
EESC905	Advanced Remote Sensing	Spring	12
EESC912	Advanced Soils, Landscapes and Hydrology	Spring	12
EESC914	Fundamentals of Spatial Science	Autumn or Spring	12
EESC951	Advanced Topic B	Annual, Autumn, or Spring	8
LAW9380	Law for Environmental Managers	Spring	8
ENVE985	Environmental Engineering	Autumn	8
STAT955	Sample Surveys and Experimental Design	Autumn	8

### Other Information

For further information contact the Faculty of Science Office, Room 41.258, or telephone (02) 4221 3481.

The Degree Coordinator is Professor John Morrison, School of Earth and Environmental Sciences, Room 19.G012.

## Master of Arts (Geography)

Testamur Title of Degree:	Master of Arts (Geography)
Abbreviation:	MA
Home Faculty:	Science
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	1565
CRICOS Code:	007046G (Human Geography), 052683D (Physical Geography)

### Overview

This coursework degree is designed for candidates who wish to extend their grounding in Geography beyond the undergraduate level. It also provides an alternative route to subsequent PhD studies for students who do not possess a BA (Honours) degree.

### Entry Requirements / Assumed Knowledge

Normally a pass Bachelors degree of at least 3 years duration in a relevant discipline (with at least three third year level subjects in the discipline) or a similar tertiary qualification, with relevant work experience, as approved by the Head of School.

### Course Requirements

Candidates must complete 48 credit points of 900-level subjects, as set out below, as approved by the Course Coordinator. Students may be required to complete additional credit points if their disciplinary background is deemed not satisfactory.

### Geography

The following coursework subjects have been devised by the School of Earth and Environmental Sciences to meet the needs of students who wish to proceed to the postgraduate level in Geography to enhance their qualifications in an area without undertaking a research project.

The subjects have been grouped in two strands which reflect the major research strengths in Geography within the School of Earth and Environmental Sciences.

- Physical Geography and Environments

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

– Human Geography and Environments

Students with a satisfactory background in Earth and Environmental Sciences complete subjects to the value of 48 credit points chosen from either of the two programs, in consultation with the Course Coordinator. Other students may be required to complete subjects to a value of 72 credit points.

Subjects	Session	Credit Points
<b>Physical Geography and Environments</b>		
EESC901 Advanced Plate Tectonics, Macrotopography and Earth History	Autumn	12
EESC902 Advanced Coastal Environments: Processes and Management	Spring	12
EESC903 Advanced Fluvial Geomorphology and Sedimentology	Autumn	12
EESC904 Advanced Geographic Information Science	Spring	12
EESC905 Advanced Remote Sensing	Autumn	12
EESC912 Advanced Soils, Landscapes and Hydrology	Spring	12
EESC914 Fundamentals of Spatial Science	Autumn or Spring	12
EESC950 Advanced Topic A	Annual, Autumn, or Spring	12
EESC951 Advanced Topic B	Annual, Autumn, or Spring	8
<b>Human Geography and Environments</b>		
EESC904 Advanced Geographic Information Science	Spring	12
EESC905 Advanced Remote Sensing	Autumn	12
EESC910 Advanced Social Spaces: Rural and Urban	Spring	12
EESC914 Fundamentals of Spatial Science	Autumn or Spring	12
EESC917 Advanced Spaces, Places and Identities	Autumn	12
EESC918 Advanced Environmental and Heritage Management	Spring	12
EESC950 Advanced Topic A	Annual, Autumn, or Spring	12
EESC951 Advanced Topic B	Annual, Autumn, or Spring	8

### Other Information

For further information contact the Faculty of Science Office, Room 41.258, or telephone (02) 4221 3481.

Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/).

Specific enquiries should be directed to the School of Earth and Environmental Sciences (02) 4221 3721.

## Master of Science

Testamur Title of Degree:	Master of Science (major)
Abbreviation:	MSc
Home Faculty:	Science
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	048498F

### Overview

This coursework degree is designed for candidates who wish to extend their grounding in a particular science discipline beyond the undergraduate level. It also provides an alternative route to subsequent PhD studies for students who do not possess a BSc (Honours) degree.

Majors available are:

- Biotechnology
- Environmental Biology
- Chemistry
- Medicinal Chemistry
- Medical Radiation Physics (refer to the Faculty of Engineering)
- Coastal Planning and Management
- Geography
- Geology

### Entry Requirements / Assumed Knowledge

Normally a pass Bachelors degree of at least 3 years duration in the relevant discipline (with at least three third year level subjects in the discipline) or a similar tertiary qualification, with relevant work experience, as approved by the relevant Masters Coordinator or Head of Department or School.

Additional specific entry requirements for Biotechnology:

A relevant undergraduate degree of at least four years duration, or a similar tertiary qualification with relevant work experience. The degree must have included components dealing with one or more of the following areas: biology, biochemistry, cell biology, molecular biology, or microbiology. In addition, the student must have completed the equivalent of at least one year of academic study in chemistry.

Additional specific entry requirements for Coastal Planning and Management:

A relevant undergraduate degree of at least three years duration in Environmental Science, Science, Applied Science, Agriculture, Forestry, Social Science, Economics, Planning, Demography, Human Geography, or equivalent tertiary qualification and/or professional experience.

### Course Requirements

Candidates must complete 48 credit points of 900-level subjects as determined for the disciplinary major, as set out below, and approved by the Course Coordinator. Students may be required to complete additional credit points if their disciplinary background is deemed not satisfactory.

### Majors available

#### Biotechnology

The Master of Science (Biotechnology) is designed for graduates who seek knowledge and technological expertise in specific areas of cell and molecular biology, which are the basis for modern biotechnological research and development. Students complete 48 credit points of subjects as listed below chosen in consultation with the Biotechnology Masters Coordinator.

Note: Spring Session start is not advised unless the student has a very strong academic background.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<b>Subjects</b>		<b>Session</b>	<b>Credit Points</b>
	BIOL980	Biotechnology	Autumn	12
	BIOL981	Molecular Cell Biology	Autumn	12
	BIOL982	Infection and Immunity	Spring	12
Commerce	BIOL984	Applied Bioinformatics	Spring	12
	Optional Subjects			
	The following subjects may be substituted for one or more of the core subjects after consultation with the Biotechnology Masters Coordinator.			
	BIOL983	Research Methods in Biotechnology	Autumn	12
Creative Arts	BIOL991	Major Research Project	Autumn, Spring or Summer	24
	BIOL992	Literature Review	Autumn, Spring or Summer	12
	BIOL993	Research Project	Autumn, Spring or Summer	12
	The Coordinator of this Major is Dr Ren Zhang, School of Biological Sciences, Room 35.124B.			
Education	<b>Environmental Biology</b>			
	This coursework program is designed for students who seek further knowledge and skills in the biological sciences, or seek to qualify for a postgraduate research degree. Students complete coursework to a value of 48 credit points as listed below, chosen in consultation with the Masters Coordinator.			
	Note: Spring Session start is not advised unless the student has a very strong academic background.			
Engineering	<b>Subjects</b>		<b>Session</b>	<b>Credit Points</b>
	BIOL970	Advances in Conservation Biology	Autumn	12
	BIOL971	Marine and Terrestrial Ecology	Spring	12
	BIOL972	Ecological and Evolutionary Physiology	Autumn	12
Graduate School of Business	MARE973	Advanced Topics in Fisheries and Aquaculture	Spring	12
	Alternative Options			
	MARE957	Advanced Topics in Molluscan Biology	Summer	12
	BIOL991	Major Research Project	Autumn, Spring or Summer	24
Health & Behavioural Sciences	BIOL992	Literature Review	Autumn, Spring or Summer	12
	BIOL993	Research Project	Autumn, Spring or Summer	12
	Or 900- level subjects from other academic units subject to the approval of the Heads of those units and the Masters Coordinator			
	Note: Students cannot enrol in subjects where they have completed the equivalent 300- level subjects at this University. The Coordinator of this Major is Associate Professor Bill Buttemer, School of Biological Sciences, Room 35.G19C.			
Informatics	<b>Chemistry</b>			
	This program is designed for applicants from industry or education who wish to extend their grounding in chemistry theory beyond the undergraduate level. It also provides an alternative route to subsequent PhD studies for students who do not possess a BSc(Honours) degree. Students complete 48 credit points of coursework over one year (or equivalent part-time) by enrolling in the following subjects, as approved by the Course Coordinator.			
	<b>Subjects</b>		<b>Session</b>	<b>Credit Points</b>
	CHEM910	Research Skills Training	Annual, Autumn, or Spring	12
Law	CHEM915	Advanced Chemistry Laboratory Project	Annual, Autumn, or Spring	12
	CHEM919	Literature Report in Chemistry	Annual, Autumn, or Spring	12
	Plus 1 subject selected from:			
	CHEM940	Contemporary Topics in Biomolecular Chemistry	Annual, Autumn, or Spring	12
Science				



CHEM950	Contemporary Topics in Analytical and Environmental Chemistry	Annual, Autumn, 12 or Spring
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The Coordinator of this Major is Professor Will Price, Department of Chemistry, Room 18.102A.

### Medicinal Chemistry

This coursework program provides vocational training in medicinal chemistry, an area where there is currently a high demand for graduates. The program consists of special coursework in medicinal chemistry and a small research project.

Students complete 48 credit points of coursework over one year (or equivalent part-time) by enrolling in the following subjects, as approved by the Course Coordinator.

Subjects	Session	Credit Points
CHEM910 Research Skills Training	Annual, Autumn, 12 or Spring	
CHEM915 Advanced Chemistry Laboratory Project	Annual, Autumn, 12 or Spring	
CHEM919 Literature Report in Chemistry	Annual, Autumn, 12 or Spring	
CHEM930 Selected Topics in Medicinal Chemistry	Annual, Autumn, 12 or Spring	

The Coordinator of this Major is Professor Will Price, Department of Chemistry, Room 18.102A.

### Coastal Planning and Management

This coursework program is designed to produce graduates able to assess, plan and manage the range of environmental and social issues experienced in coastal regions.

Students complete 48 credit points of coursework over one year (or equivalent part-time) by enrolling in the following subjects, as approved by the Course Coordinator.

Subjects	Session	Credit Points
ENVI923 Environmental Planning	Autumn	12
Plus one subject selected from the following two subjects:		
EESC902 Coastal Environments	Spring	12
EESC916 Coastal Population Studies	Autumn	12
Plus 24 credit points selected from:		
EESC902 Coastal Environments	Spring	12
EESC904 Advanced GIS	Spring	12
EESC905 Advanced Remote Sensing	Autumn	12
EESC914 Fundamentals of Spatial Science	Autumn or Spring	12
EESC916 Coastal Population Studies	Autumn	12
ENVI912 Directed Studies in Land Resources	Annual, Autumn, 12 or Spring	
ENVI919 Directed Studies in Environmental Science	Annual, Autumn, 12 or Spring	
ENVI922 Scientific Basis of Environmental Management	Spring	12
LAW9380 Environmental Law	Spring	8
STS929 Studies in Resource and Environmental Policy	Autumn	8
EESC951 Advanced Topic B	Annual, Autumn, 8 or Spring	

The Coordinator of this Major is Dr Chris Gibson, School of Earth and Environmental Sciences, Room 41.G08.

### Geography or Geology

The following coursework subjects have been devised by the School of Earth and Environmental Sciences to meet the needs of students who wish to proceed to the postgraduate level in Geography or Geology to enhance their qualifications in an area without undertaking a research project.

The subjects have been grouped in three strands which reflect the major research strengths within the School of Earth and Environmental Sciences:

- Physical Geography and Environments
- Human Geography and Environments

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

– Geology

Students with a satisfactory background in Earth and Environmental Sciences complete subjects to the value of 48 credit points chosen from either of the two programs in consultation with the Course Coordinator. Other students may be required to complete subjects to a value of 72 credit points.

Subjects	Session	Credit Points
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**Physical Geography and Environments**

EESC901	Advanced Plate Tectonics, Macrotopography and Earth History	Autumn	12
EESC902	Advanced Coastal Environments: Processes and Management	Spring	12
EESC903	Advanced Fluvial Geomorphology and Sedimentology	Autumn	12
EESC904	Advanced Geographic Information Science	Spring	12
EESC905	Advanced Remote Sensing	Autumn	12
EESC912	Advanced Soils, Landscapes and Hydrology	Spring	12
EESC914	Fundamentals of Spatial Science	Autumn or Spring	12
EESC950	Advanced Topic A	Annual, Autumn, or Spring	12
EESC951	Advanced Topic B	Annual, Autumn, or Spring	8

**Human Geography and Environments**

EESC904	Advanced Geographic Information Science	Spring	12
EESC905	Advanced Remote Sensing	Autumn	12
EESC910	Advanced Social Spaces: Rural and Urban	Spring	12
EESC914	Fundamentals of Spatial Science	Autumn or Spring	12
EESC917	Advanced Spaces, Places and Identities	Autumn	12
EESC918	Advanced Environmental and Heritage Management	Spring	12
EESC950	Advanced Topic A	Annual, Autumn, or Spring	12
EESC951	Advanced Topic B	Annual, Autumn, or Spring	8

**Geology**

EESC901	Advanced Plate Tectonics, Macrotopography and Earth History	Autumn	12
EESC903	Advanced Fluvial Geomorphology and Sedimentology	Autumn	12
EESC904	Advanced Geographic Information Science	Spring	12
EESC905	Advanced Remote Sensing	Autumn	12
EESC911	Advanced Isotope Geochemistry	Autumn	12
EESC914	Fundamentals of Spatial Science	Autumn or Spring	12
EESC921	Advanced Environmental Geology	Spring	12
EESC950	Advanced Topic A	Annual, Autumn, or Spring	12
EESC951	Advanced Topic B	Annual, Autumn, or Spring	8

The Coordinator of this Major is Professor Lesley Head – School of Earth and Environmental Sciences, Room 41.G31.

**Other Information**

For further information regarding any of the Master of Science majors please contact the Faculty of Science Office, 41.258, or telephone (02) 4221 3481.

Web site: [www.uow.edu.au/science](http://www.uow.edu.au/science)

## Graduate Diploma in Science

Testamur Title of Degree:	Graduate Diploma in Science (major)
Abbreviation:	GDipSc
Home Faculty:	Science
Duration:	1 year full-time or part-time equivalent
Total Credit Points:	48
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn or Spring
Location:	Wollongong
UOW Course Code:	682
CRICOS Code:	007042M

### Overview

The Graduate Diploma in Science provides graduates with the opportunity to acquire competence in a particular area of science at a sufficiently advanced level, to enable them to either proceed with further study or to update, broaden or intensify their knowledge and skills in the discipline.

The diploma will be found useful by international students, and by students either without a full major in a discipline at undergraduate level, or who completed their first degree some years ago.

The majors available are:

- Biological Sciences
- Chemistry
- Geography
- Geology
- Physics\*

\*Refer to the Faculty of Engineering

### Entry Requirements / Assumed Knowledge

A relevant undergraduate degree of at least three years duration, or a similar tertiary qualification with relevant work experience.

### Course Requirements

Candidates select subjects to the value of 48 credit points from the Undergraduate Science Schedule of subjects, the selection to be approved the Head of the relevant Department or School, who may also specify other required subjects.

### Other Information

For further information contact the Associate Professor Ted Bryant – Faculty of Science Office, 41.259, telephone (02) 4221 3172, email: [ebryant@uow.edu.au](mailto:ebryant@uow.edu.au).

Web site: [www.uow.edu.au/science/](http://www.uow.edu.au/science/).

Specific enquiries should be directed to the appropriate Academic Unit: School of Biological Sciences (02) 4221 3013, Department of Chemistry (02) 4221 3509 or School of Earth and Environmental Sciences (02) 4221 3721.

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

## SUBJECT DESCRIPTIONS

### BIOL970 Advances in Conservation Biology

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines the science behind modern conservation biology, integrating ecology, ecological genetics and legislation. Emphasis is placed on understanding ecological and genetic principles, mastering laboratory and field skills and elementary mathematical modelling, and then placing these in the context of current legislation and other conservation instruments. Students use these skills and knowledge to assess a recent issue in conservation biology, as a critical review of methodology and conclusions.

### BIOL971 Advanced Topics in Marine and Terrestrial Ecology

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Introduction to ecology – levels of organisation (individual, population, community and eco-system) and the importance of spatial and temporal variation. Experiments in ecology – field and laboratory, their design and analysis, including the detection of human impacts. Biotic interactions: the roles of competition, herbivory, predation, mutualisms and disturbance, in community structure and function. Behavioural ecology: innate vs learned behaviours and their effects on individual fitness, demography and community structure. Applied ecology: rehabilitation and ecological management. Literature review examining contemporary research in ecology (tailored to the specialisations of MSc students enrolled in the subject).

### BIOL972 Ecological and Evolutionary Physiology

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Physiological and biochemical characterisation of organisms in relation to size, metabolic intensity, and response to environmental variables. Physiological responses of plants and animals to variations in light intensity, solar radiation, temperature, gas composition, and pressure. Evolution of aerobic capacity and endothermy. Physiological processes associated with phenotypic plasticity and adaptive traits. Influence of hormones on physiology and behaviour.

### BIOL980 Biotechnology

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Recombinant DNA technology and genetic engineering of micro-organisms, plant cells and animal cells. Expression, production and purification of recombinant proteins, cytokines and hormones. Fermentation technology and industrial

scale-up. Applications of Biotechnology to the fields of human therapeutics, agriculture and diagnostics. Bioinformatics, ethical and patent issues of Biotechnology.

### BIOL981 Molecular Cell Biology

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject covers many specific aspects of cell biology, including cell and tissue structure, protein sorting mechanisms, secretion, membrane transport, energetics, signal transduction, apoptosis, cellular and molecular genetics of development, the cell cycle and cancer. In addition, focused lab-based practicals are offered which will provide an understanding of the techniques used for studying cell biology. These include: cell and organelle isolation and analysis, growth of various cell types in aseptic culture, observation and manipulation of cellular functions and cell surface labelling and protein blotting.

### BIOL982 Infection and Immunity

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** Completion of a suitable science or related undergraduate degree

**Co-requisites:** None

**Subject Description:** This is a coursework subject intended to provide students at MSc level with an understanding of leading edge aspects of microbial pathogens, the immune system, and the ways in which the immune system defends the body against pathogens. The overwhelming majority of students undertaking this subject are enrolled in the MSc(Biotechnology) degree, and take this as one of four subjects required for the degree. This subject will survey the major groups of microbial pathogens before examining the multiple facets of the immune system in humans. The interactions between pathogens and the immune system will be explored, both in theory and as an integrated part of the practical exercises. Technological advances in immunology and immunochemistry that have made major impacts on modern biotechnology will also be studied, including monoclonal and 'humanized' antibodies, and recombinant vaccines.

### BIOL983 Research Methods in Biotechnology

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The role of proteins in biotechnology. Aspects of protein 3-dimensional structure and folding, ligand binding and catalysis important in biotechnology. Extraction and recovery of proteins in the biotechnology industry. Purification and characterisation of proteins. Animal cell and tissue culture: advanced culture techniques, flow cytometry and genetic engineering. Antibody technology: radio-immunoassay and enzyme-immunoassay techniques, signal amplification strategies. Transgenics: current status and prospects. Recent advances in gene cloning and screening. Resistance of

plants to disease and abiotic stress. Genetic engineering of plants. Bioremediation using plants and microbes. Vaccines: antigen selection, presentation and delivery.

### **BIOL984 Applied Bioinformatics**

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A revolution is underway in Biological Sciences due to the impact of Genomics, Transcriptomics and Proteomics. These new technologies have transformed Biology from a data-poor to a data-rich science. Bioinformatics is concerned with the utilisation of this new data. Bioinformatics will be explored in lectures and computer-based practicals. Databases for nucleic acid and protein sequences, structures and other parameters of biological molecules, plus linkages to the scientific literature, will be used to extract information, compare and analyse biological data. Each student will prepare a literature research paper and deliver a seminar on a relevant aspect of Bioinformatics.

### **BIOL991 Major Research Project**

Spring Wollongong On Campus

Autumn Wollongong On Campus

Summer 2007/2008 Wollongong On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The student will undertake a research project on a topic in Biology and present a research report and seminar on a topic chosen by the supervising staff. The research can be undertaken in collaboration with industry or another recognised institution.

### **BIOL992 Literature Review Project**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Summer 2007/2008 Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Under the supervision of staff (nominated by the Masters Coordinator) the student will survey the biological literature and present a written report and a seminar on a topic chosen by the supervisory academic.

### **BIOL993 Research Project**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Summer 2007/2008 Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Under the supervision of staff (nominated by the Masters Coordinator) the student will undertake a research project and present a written report and a seminar on a topic chosen by the supervising staff.

### **CHEM910 Research Skills Training**

Annual Wollongong On Campus

Autumn Wollongong On Campus

Spring Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** Appropriate degree. Compulsory for all students undertaking an MSc in Chemistry by coursework.

**Co-requisites:** None

**Subject Description:** This subject provides training in generic research skills such as data interpretation and analysis, library skills, literature evaluation, quality control and assurance, and Occupational Health and Safety. In addition, students will carry out directed studies in topics of advanced chemistry, chosen to complement their research interests, in discussion with the course Co-ordinator.

### **CHEM911 Selected Topics in Chemistry**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** Appropriate degree.

**Co-requisites:** None

Exclusions: Not to count with CHEM910.

**Subject Description:** Students carry out a directed studies program under the supervision of an academic staff member in an area to complement their other studies.

### **CHEM915 Advanced Chemistry Laboratory Project**

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** Appropriate degree.

**Co-requisites:** None

**Subject Description:** Under the supervision of staff appointed by the Head of Department, students will undertake a laboratory project and present a written report, poster and a seminar on a topic chosen by the supervising staff.

### **CHEM919 Literature Report in Chemistry**

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Spring2007/Autumn2008 Wollongong On Campus

Summer 2007/2008 Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** Appropriate degree.

**Co-requisites:** None

**Subject Description:** Students in this subject undertake a literature search on recent advances in a research topic in chemistry. The topic is chosen in consultation with their supervisor and the course coordinator. A substantial report is the written outcome and the students meet in regular tutorials with their supervisor to discuss issues raised in the topic and compilation of the report.

### **CHEM920 Major Research Thesis**

*Not on offer in 2007*

**Credit Points:** 48

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<p><b>Pre-requisites:</b> Appropriate degree</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Topic to be arranged in consultation with the Departmental Head and approved by the Board of Research and Postgraduate Studies. Involves supervised research work.</p>		
Commerce	<p><b>CHEM930 Selected Topics in Medicinal Chemistry</b></p> <p>Annual Wollongong On Campus</p> <p>Autumn Wollongong On Campus</p> <p>Spring Wollongong On Campus</p> <p>Spring2007/Autumn2008 Wollongong On Campus</p> <p><b>Credit Points:</b> 12</p> <p><b>Pre-requisites:</b> Entry is subject to approval of Head of Department</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> Specialist courses in aspects of medicinal chemistry and related areas (drug design, synthesis, pharmacology, computer modelling and structural studies). Directed Medicinal Chemistry studies, in an area related to the student's individual research project.</p>		
Creative Arts			
Education			
Engineering	<p><b>CHEM940 Contemporary Topics in Biomolecular Chemistry</b></p> <p>Autumn Wollongong On Campus</p> <p>Spring Wollongong On Campus</p> <p>Annual Wollongong On Campus</p> <p>Spring2007/Autumn2008 Wollongong On Campus</p> <p><b>Credit Points:</b> 12</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This unit gives students a good grounding in modern aspects of biomolecular chemistry. The exact course of study will vary depending on the student's background and interests. It may include studies of advanced methods of synthesis; studies of molecular structure via spectroscopy and modelling; and biological chemistry and bioinformatics. In addition, students undertake a directed studies program. This will vary from student to student depending on their interests, but will involve a small project in which they are given a research problem in biomolecular science to solve. This may take the form of a synthetic target or data to analyse. Students will present their findings by means of a report.</p>		
Graduate School of Business			
Health & Behavioural Sciences			
Informatics	<p><b>CHEM950 Contemporary Topics in Analytical and Environmental Chemistry</b></p> <p>Autumn Wollongong On Campus</p> <p>Spring Wollongong On Campus</p> <p>Annual Wollongong On Campus</p> <p>Spring2007/Autumn2008 Wollongong On Campus</p> <p><b>Credit Points:</b> 12</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This unit gives students a good understanding in modern aspects of environmental chemistry and related analytical techniques. The exact course of study will vary depending on the student's background and interests. It may include modules of study of: atmospheric processes and their chemistry; water and soil chemistry and analysis; environmental sampling; instrumental analysis; Quality Control/Quality Assurance/Total Quality Management. In addition,</p>		
Law			
Science			

students undertake a small project in which they are given a research problem in environmental chemistry to solve. This may take the form of a pollution or remediation/disposal problem or data to analyse. Students will present their findings by means of a report.

### EESC901 Advanced Plate Tectonics, Macrotopography and Earth History

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with GEOS923

**Subject Description:** This subject is concerned with the theory of plate tectonics and its role in the formation of Earth structures and topography. Large-scale processes are examined in relation to the controls of topography and bathymetry. Relationships between plates and ocean basins, continental margins, continental interiors and sedimentary basins are evaluated. Earth structure is examined along with earthquakes and deformation (stress, strain, faulting and folding). Earth history is considered in relation to past mountain belts, continents and oceans. Practicals are a series of tutorials designed to reinforce the material covered in lectures. Field work consists of three field trips.

### EESC902 Advanced Coastal Environments: Processes and Management

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject examines sedimentary and ecological processes on the coast. Coastal management is considered from geomorphological and ecological perspectives. Topics include the morphology and development of coastal landforms, particularly estuaries, deltas, chenier and beach-ridge plains, beaches and dunes, and coral reefs. Emphasis is placed on interpreting Holocene morphostratigraphy and morpho-dynamics, reconstructing sea-level changes and the effect of sea-level changes on coastal environments, and on understanding longer-term ecological and geomorphological processes.

### EESC903 Advanced Fluvial Geomorphology and Sedimentology

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to be counted with

EESC303 or GEOS321

**Subject Description:** Rivers play a dynamic role in shaping the Earth's landforms (geomorphology), constructing sedimentary sequences of economic importance (sedimentology), and presenting flood and erosion hazards, all of which greatly influence human use of the Earth's surface. This subject examines processes forming and modifying contemporary drainage basins, interprets fluvial sedimentary records and relates changes in these records to variations in climate and depositional environment. Particular attention is given to human modification and the management of river systems.



## EESC904 Advanced Geographic Information Science

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** EESC914 or equivalent

**Co-requisites:** None

**Subject Description:** Geographical information Science is concerned with the theory and analysis of spatial data, particularly using GIS. Practical applications in natural resource management, urban and regional planning, pollution management, distribution of plant and animal communities, natural hazards, medical geography, economic and environmental geology and environmental impact assessment are emphasised. Topics include data acquisition, spatial data-bases and analysis, georeferencing, digital terrain modelling, and accuracy.

## EESC905 Advanced Remote Sensing of the Environment

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** EESC914 or equivalent

**Co-requisites:** None

**Subject Description:** Remote sensing is an important tool for monitoring and modelling the condition and dynamics of terrestrial, aquatic and atmospheric environments. Biophysical information extracted from images may be used in many ways, as image or thematic maps, directly in decision making, as estimates of biophysical variables or integrated with other spatial information systems for further analysis and display. This subject is a logical progression from EESC904, the latter having not only provided the student with an introduction to the theory and practice of geospatial technologies, but basic knowledge of remote sensing principles. EESC905 emphasises digital image processing for analysis of remotely sensed imagery, including airborne and satellite multispectral and hyperspectral data. Practical sessions will involve a progression of common analysis techniques and tutorials. Concepts and skills acquired will be sequentially applied in these sessions.

## EESC910 Advanced Social Spaces: Rural and Urban

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject requires postgraduate students to critically assess how geographers and others have theorised the global and national processes that shape the social, economic and spatial characteristics of Australian cities and regions. Students will build upon insights from previous study to explore how contemporary urban and rural landscapes have been formed and how they are constantly being reshaped. They will draw upon theoretical perspectives including political economy and post-structuralism to explore varying accounts of these socio-spatial processes. Examples such as industry restructuring, rural/urban mythology and the development of Australian and overseas cities will be used to make connections between processes at the various scales and specific aspects of Australian urban and rural life. Through workshops and assignments, students will further develop skills and knowledge in areas such

as media analysis and the use of census and other data sources. In addition, students will complete an essay in which they evaluate theoretical perspectives on a topic chosen in conjunction with the subject co-ordinator.

## EESC911 Advanced Isotope Geochemistry

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** Topics include sample preparation; mass spectrometry; applications of both radiogenic and stable isotopic systems; geochronology modelling; petrogenetic modelling.

## EESC912 Advanced Soils, Landscapes and Hydrology

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** The interdependence of landform, hydrology and soil, together with time and place, are the major factors influencing landscape evolution. This subject examines denudation of highlands; survival of ancient landscapes; climatic and geomorphic controls on landforms; erosion; weathering processes and the formation of soils, laterites, silcretes and calcretes; soil surveying; environmental records of lakes; groundwater and surface-water processes and chemistry; dating of land-surfaces and groundwater; the hydrological cycle.

## EESC914 Fundamentals of Spatial Science

Autumn Wollongong On Campus

Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

Exclusions: Not to count with EESC204 or EESC213

**Subject Description:** This subject aims to provide students at the MSc level with a comprehensive introduction to the theory and practice of dealing with geospatial technologies, collectively termed 'spatial science'. Spatial science draws upon concepts, tools and skills from several other related disciplines (primarily geography, cartography and computer science) and technologies (GIS, remote sensing, GPS). Students enrolling in this subject will have no prior background in this area. Thus, they will require the same basic knowledge and skill development at the start of the subject as the undergraduate students (attending same lectures and practicals). However, towards the end of the semester (once the knowledge and skills have been obtained), they will be asked to conduct an extensive literature review and use it, combined with all they've learned throughout the semester, to develop a professionally written proposal for a spatial science project in their area of interest. This report will take several weeks of dedicated time to complete and is heavily weighted (40%) in the assessment of the subject.

## EESC916 Coastal Population Studies

Autumn Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This subject is designed to

Arts
Commerce
Creative Arts
Education
Engineering
Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	introduce students to a range of demographic issues that are globally, nationally and regionally/locally significant. The lecture content is designed to enable students to critically study how geographers analyse population issues and how this analysis overlaps with other disciplines. Practical classes are centred around core skills in population data management, social mapping and geographical information systems (GIS). The objective is that students will learn skills in handling data, critical thinking, group work and presentation skills.
Commerce	<b>EES917 Advanced Spaces, Places and Identities</b> Autumn Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> The lecture content is designed to enable postgraduate students to build upon their geographical knowledge by critically studying how geographers have conceptualised space/place. Drawing upon different approaches, this subject investigates the connections that have been made between place making processes and identity including gender, ethnic, sexual, tourist and national identity. The approaches drawn upon include structuralism and post-structuralism. Underpinning the design of the workshops is the objective that students will learn qualitative research skills. In these workshops, students are encouraged to gain proficiency in three areas: qualitative research, team-work and presentation skills. Employers often seek postgraduate students with demonstrated skills in these three areas. This subject is designed to enable postgraduate students to develop these skills.
Creative Arts	<b>EES918 Advanced Environmental and Heritage Management</b> Spring Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> This subject presents advanced geographic perspectives on environmental and heritage management. We examine environmental and cultural values and how they are translated into practice to protect and manage landscapes, places, resources and ecosystems. Consequently, the subject will consider definitions of concepts such as environment, nature and heritage as well as legislative and policy frameworks in Australia and overseas. These themes will be pursued through studies of issues such as indigenous land and heritage management, wilderness identification and management, catchment management and restoration of ecosystems and the built environment. The subject is suitable for practitioners seeking to update their academic knowledge as well as for postgraduate students wanting to further develop their applied research skills.
Education	<b>EES921 Advanced Environmental Geology</b> Spring Wollongong On Campus <b>Credit Points:</b> 12 <b>Pre-requisites:</b> None <b>Co-requisites:</b> None <b>Subject Description:</b> Topics include the relationship between mining operations and communities; downstream pollution problems; mineralogical composition and types
Engineering	
Graduate School of Business	
Health & Behavioural Sciences	
Informatics	
Law	
Science	

of associated dusts; composition of mine waters and stack emissions, the reclamation of mine sites; effects of mine subsidence; the composition, uses and disposal of waste residues; environmental impact studies; alienation of resources; conflicts of interest in mining operations.

#### **EES950 Advanced Topic A**

Autumn Wollongong On Campus  
Spring Wollongong On Campus  
Annual Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This project will consist of a library and/or laboratory study on some topical aspect of earth and environmental sciences equivalent to one third of full-time study.

#### **EES951 Advanced Topic B**

Autumn Wollongong On Campus  
Spring Wollongong On Campus  
Annual Wollongong On Campus

**Credit Points:** 8

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** This project will consist of a library and/or laboratory study on some topical aspect of earth and environmental sciences equivalent to one third of full-time study.

#### **ENVI910 Directed Studies in Environmental Chemistry**

Spring Wollongong On Campus  
Autumn Wollongong On Campus  
Annual Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** Must be enrolled in Environmental Science Postgraduate program

**Co-requisites:** None

**Subject Description:** This subject is designed for MEnvSc students who do not have a strong background in chemistry. It aims to develop competency in Chemistry through a range of activities (lectures, practical work, report writing, etc.). The course content is determined following a consideration of the individual students background and needs.

#### **ENVI911 Directed Studies in Ecology**

Spring2007/Autumn2008 Wollongong On Campus  
Autumn Wollongong On Campus  
Annual Wollongong On Campus  
Spring Wollongong On Campus

**Credit Points:** 12

**Pre-requisites:** Must be enrolled in Environmental Science Postgraduate program

**Co-requisites:** None

**Subject Description:** This subject includes coursework components that provide an introduction to organismic biology, including plant and animal diversity, principles of ecology and evolution, and the impacts of humans on ecosystems. Assessment is directed through the subject coordinator and will include a research report concerning an issue in environmental biology.



## ENVI912 Directed Studies in Land Resources

Annual	Wollongong	On Campus
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Spring2007/Autumn2008	Wollongong	On Campus

**Credit Points:** 12

**Pre-requisites:** Must be enrolled in Environmental Science Postgraduate program

**Co-requisites:** None

**Subject Description:** This subject will examine coastal, river, water and soil managements focussing on human induced changes to these natural systems. Emphasis will be given to geomorphological processes, remote sensing of land and biological resources.

## ENVI913 Directed Studies in Earth Sciences

Annual	Wollongong	On Campus
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

**Credit Points:** 12

**Pre-requisites:** Must be enrolled in Environmental Science Postgraduate program

**Co-requisites:** None

**Subject Description:** Topics include the relationship of mining operations to communities; composition of mine waters, dusts and stack emissions; reclamation of mine sites; effects of mine subsidence; the composition, uses and disposal of waste residues; environmental effects of pollution, erosion and deposition; environmental impact studies.

## ENVI919 Directed Studies in Environmental Science

Summer 2007/2008	Wollongong	On Campus
Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2007/Summer2007	Wollongong	On Campus
Spring2007/Autumn2008	Wollongong	On Campus

**Credit Points:** 12

**Pre-requisites:** Must be enrolled in Environmental Science Postgraduate program or with permission of the Head of Environmental Science.

**Co-requisites:** None

**Subject Description:** In this subject students will undertake either a major literature review or carry out a practical study on a problem of current environmental interest. The work will normally be related to one of the ongoing activities of the Unit, giving the student the opportunity to become well acquainted with a particular aspect of environmental science. International students will be encouraged to undertake activities with significant relevance to their home countries.

## ENVI922 Scientific Basis of Environmental Management

Spring	Wollongong	On Campus
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**Credit Points:** 12

**Pre-requisites:** Accepted entry into MEnvSc or equivalent program.

**Co-requisites:** None

Exclusions: Not to count with ENVI920

**Subject Description:** This subject covers topics

designed to give students a comprehensive overview of the scientific basis of environmental management. The subject will adopt a multi-disciplinary approach to the scientific understanding of how major ecosystems work and show how an appreciation of such knowledge leads to the development of appropriate management strategies for these systems. While there will be some emphasis on the Australian situation, much of the material is applicable in any country. The systems to be covered include estuaries, reefs, coastal wetlands, forests, large and small catchment areas, and semi-arid areas. In addition, the science of the management of hazardous wastes (including radioactive materials) will be discussed. Case studies from Australia, South-East Asia and the Pacific Islands will be included.

## ENVI923 Environmental Planning

Autumn	Wollongong	On Campus
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**Credit Points:** 12

**Pre-requisites:** Accepted entry into MEnvSc or equivalent program.

**Co-requisites:** None

Exclusions: Not to count with ENVI921

**Subject Description:** This subject presents material necessary for a comprehensive overview of the status and development of environmental planning in government and industry. In the subject, students are introduced to the principles of environmental planning. This is followed by presentations from staff from a wide range of organisations involved in environmental planning. Students learn from academic staff and environmental practitioners, the mechanisms, difficulties and benefits of current planning activities in Australia. While there is some emphasis on the Australian situation, reference to activities in other countries is also included, in addition to aspects of the global situation regarding environmental planning.

## ENVI930 Thesis

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2007/Autumn2008	Wollongong	On Campus

**Credit Points:** 24

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A research topic in an area of environmental science will be selected by each candidate after consultation with the degree co-ordinator. The thesis will be supervised by staff from the appropriate unit(s).

## ENVI931 Thesis

Spring2007/Autumn2008	Wollongong	On Campus
Annual	Wollongong	On Campus

**Credit Points:** 32

**Pre-requisites:** None

**Co-requisites:** None

**Subject Description:** A research topic in an area of environmental science will be selected by each candidate after consultation with the degree co-ordinator. The thesis will be supervised by staff from the appropriate unit(s).

## MARE957 Advanced Topics in Molluscan Biology

Summer 2007/2008	Wollongong	On Campus
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**Credit Points:** 12

**Pre-requisites:** BIOL241 (or equivalent)

**Co-requisites:** None

Arts
Commerce
Creative Arts
Education
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Graduate School of Business
Health & Behavioural Sciences
Informatics
Law
Science

Arts	<p><b>Subject Description:</b> This subject will provide an overview of molluscan biology, diversity and phylogeny. It will also examine the role of molluscs in fisheries, aquaculture, as pests and as carriers of disease. Consideration will be given to these aspects of molluscan biology worldwide, but there will also be a focus on the largely endemic Australian fauna. Each of the major groups of molluscs will be examined, including polyplacophorans (chitons), bivalves (e.g. clams and oysters), gastropods (e.g. slugs and snails) and finally the cephalopods (including octopuses &amp; squid). For each group, their conservation, ecology, biology and evolutionary relationships will be addressed, with important current issues and research directions highlighted. The course will provide training in field techniques, identification, lab studies including dissection and accessing resources. It will include the observation and collection of molluscs in a variety of habitats, including the rocky shore, estuarine and rainforest environments. Literature examining contemporary research in molluscs will also be reviewed (tailored to the specialisations of MSc students enrolled in the subject).</p> <p><b>MARE973    Advanced Topics in Fisheries and Aquaculture</b></p> <p>Spring            Wollongong            On Campus</p> <p><b>Credit Points:</b> 12</p> <p><b>Pre-requisites:</b> None</p> <p><b>Co-requisites:</b> None</p> <p><b>Subject Description:</b> This subject will provide an overview of fisheries biology and aquaculture (vertebrate and invertebrate) including: the diversity of Australian and international fisheries and their key challenges; relevant ecological issues (population dynamics, transport processes, stock identification); predictive modelling, fisheries management; secondary impacts of fisheries; the diversity of aquaculture; case studies in aquaculture; ecological impacts, potential for enhancement of fisheries. Literature review examining contemporary research in ecology (tailored to the specialisations of MSc students enrolled in the subject).</p>	
Commerce		
Creative Arts		
Education		
Engineering		
Graduate School of Business		
Health & Behavioural Sciences		
Informatics		
Law		
Science		