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 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 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 http://www.uow.edu.au/student/finances/studentcontributions.html

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

This publication contains information which is current at December 2005. 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/.

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 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 Standardization 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

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
	0
Home Faculty:	Informatics
Duration:	1.5 years (3 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
- 2) 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 Automation and Power 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
Abbreviation:	MEngStud
Home Faculty:	Informatics
Duration:	1 year (2 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

Students are required to undertake Option A or B, worth 48 credit points, chosen from one of the following programs:

- 1) Automation and Power Engineering Program
- 2) Computer and Telecommunications Engineering

The structure for each program and the complete list of subjects available under the Master of Engineering Studies is presented below. In any given year, the subjects presented under the individual programs that follow may be replaced by equivalent subjects from this list.

Graduates with an interest in mechatronics are invited to take specialised subjects from the Automation and Power Engineering program.

Course Program

List of MEngStud Subjects

Subjects		Session	Credit Points
ECTE901	Fast Signal Processing Algorithms	Autumn	6
ECTE902	Stochastic Signal Processing	n/o 2006	6
ECTE903	Image and Video Processing	Spring	6
ECTE904	Adaptive Signal Processing	n/o 2006	6
ECTE905	Speech and Audio Processing	n/o 2006	6
ECTE911	AC-Sourced Power Electronics	n/o 2006	6
ECTE912	DC-Sourced Power Electronics	Autumn	6
ECTE913	Micro-Electronics	n/o 2006	6
ECTE921	Power Quality	Spring	6
ECTE922	Power Quality Monitoring	n/o 2006	6
ECTE923	Power Systems	Autumn	6
ECTE924	Power Systems Abnormalities	n/o 2006	6
ECTE925	Industrial Drives and Actuators	Autumn	6
ECTE926	Power Distribution	Spring	6
ECTE931	Real-Time Computing	Autumn	6
ECTE932	Computer Systems	n/o 2006	6
ECTE941	Intelligent Control	Spring	6
ECTE942	Computer Controlled Systems	n/o 2006	6
ECTE943	Digital Control	n/o 2006	6
ECTE944	Identification and Optimal Control	n/o 2006	6
ECTE953	Advanced Project	Autumn/Spring	12
ECTE955	Advanced Laboratory	Autumn/Spring	6
ECTE961	Telecommunications Queuing Theory	n/o 2006	6
ECTE962	Telecommunications System Modelling	Autumn	6
ECTE963	Transmission Systems	n/o 2006	6
ECTE964	Antennas and Propagation	n/o 2006	6
ECTE965	Wireless Communications	n/o 2006	6
ECTE966	Spread Spectrum Communications	n/o 2006	6
ECTE967	Mobile Networks	n/o 2006	6
ECTE968	Error Control Coding	n/o 2006	6
ECTE971	Robotics Manipulators	Spring	6
ECTE972	Robotics Sensory Control	n/o 2006	6
ECTE981	Internet Protocols	n/o 2006	6
ECTE982	Internet Engineering	Spring	6
ECTE983	Computer Networking	n/o 2006	6
ECTE984	Network Design and Analysis	n/o 2006	6
ECTE985	Internet Communications	n/o 2006	6
ECTE986	Telecommunications Network Management	n/o 2006	6

Automation & Power Engineering Program

Subjects		Session	Credit Points
Option A			
ECTE955	Advanced Laboratory*	Autumn/Spring	6
Plus seven su	bjects** from the list of subjects below:		
ECTE901	Fast Signal Processing Algorithms	Autumn	6
ECTE902	Stochastic Signal Processing	n/o 2006	6
ECTE911	AC-Sourced Power Electronics	n/o 2006	6
ECTE912	DC-Sourced Power Electronics	Autumn	6
ECTE921	Power Quality	Spring	6

ECTE923 ECTE931 ECTE932 ECTE941 ECTE942 ECTE963 ECTE971 ECTE972	Power Systems Real-Time Computing Computer Systems Intelligent Control Computer Controlled Systems Transmission Systems Robotics Manipulators Robotics Sensory Control	Autumn Autumn n/o 2006 Spring n/o 2006 n/o 2006 Spring n/o 2006	6 6 6 6 6 6 6 6
Option B			
ECTE953	Advanced Project***	Autumn/Spring	12
ECTE955	Advanced Laboratory*	Autumn/Spring	6
Plus five subje	cts** from the list of subjects below:		
ECTE901	Fast Signal Processing Algorithms	Autumn	6
ECTE902	Stochastic Signal Processing	N/A in 2006	6
ECTE911	AC-Sourced Power Electronics	N/A in 2006	6
ECTE912	DC-Sourced Power Electronics	Autumn	6
ECTE921	Power Quality	Spring	6
ECTE923	Power Systems	Autumn	6
ECTE931	Real-Time Computing	Autumn	6
ECTE932	Computer Systems	N/A in 2006	6
ECTE941	Intelligent Control	Spring	6
ECTE942	Computer Controlled Systems	N/A in 2006	6
ECTE963	Transmission Systems	N/A in 2006	6
ECTE971	Robotics Manipulators	Spring	6
ECTE972	Robotics Sensory Control	N/A in 2006	6

* With the approval of the Head of School, this subject may be replaced by one of the elective subjects.

** Only a limited number of elective subjects will be available in any one year. However, the Head of School may also approve relevant subjects from other programs. Under normal circumstances, this approval would not exceed subjects to a total value of 12 credit points.

*** Entry to this subject is restricted to those students who gain a weighted average mark of at least 72.5% for the fulltime first session load (i.e., four six credit point subjects, including ECTE955 Advanced Laboratory).

Computer & Telecommunications Engineering Program

Subjects		Session	Credit Points
Option A			
ECTE955	Advanced Laboratory*	Autumn/Spring	6
Plus seven su	bjects** from the list of subjects below:		
ECTE901	Fast Signal Processing Algorithms	Autumn	6
ECTE902	Stochastic Signal Processing	n/o 2006	6
ECTE903	Image and Video Processing	Spring	6
ECTE905	Speech and Audio Processing	n/o 2006	6
ECTE912	DC-Sourced Power Electronics	Autumn	6
ECTE931	Real-Time Computing	Autumn	6
ECTE932	Computer Systems	n/o 2006	6
ECTE941	Intelligent Control	Spring	6
ECTE942	Computer Controlled Systems	n/o 2006	6
ECTE961	Telecommunications Queuing Theory	n/o 2006	6
ECTE962	Telecommunications System Modelling	Autumn	6
ECTE963	Transmission Systems	n/o 2006	6
ECTE965	Wireless Communications	n/o 2006	6
ECTE982	Internet Engineering	Spring	6
ECTE983	Computer Networking	n/o 2006	6
ECTE985	Internet Communications	n/o 2006	6
ECTE986	Telecommunications Network Management	n/o 2006	6
Option B			
ECTE953	Advanced Project***	Autumn/Spring	12
ECTE955	Advanced Laboratory*	Autumn/Spring	6
Plus five subj	ects** from the list of subjects below:		
ECTE901	Fast Signal Processing Algorithms	Autumn	6
ECTE902	Stochastic Signal Processing	n/o 2006	6
ECTE903	Image and Video Processing	Spring	6
ECTE905	Speech and Audio Processing	n/o 2006	6
ECTE912	DC-Sourced Power Electronics	Autumn	6
ECTE931	Real-Time Computing	Autumn	6
ECTE932	Computer Systems	n/o 2006	6
ECTE941	Intelligent Control	Spring	6
ECTE942	Computer Controlled Systems	n/o 2006	6
ECTE961	Telecommunications Queuing Theory	n/o 2006	6
ECTE962	Telecommunications System Modelling	Autumn	6
ECTE963	Transmission Systems	n/o 2006	6

ECTE965 ECTE982 ECTE983 ECTE985	Wireless Communications Internet Engineering Computer Networking Internet Communications	n/o 2006 Spring n/o 2006 n/o 2006	6 6 6
ECTE985	Telecommunications Network Management	n/o 2006	6

* With the approval of the Head of School, this subject may be replaced by one of the elective subjects.

** Only a limited number of elective subjects will be available in any one year. However, the Head of School may also approve relevant subjects from other programs. Under normal circumstances, this approval would not exceed subjects to a total value of 12 credit points.

*** Entry to this subject is restricted to those students who gain a weighted average mark of at least 72.5% for the fulltime first session load (i.e., four six credit point subjects, including ECTE955 Advanced Laboratory).

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 appy for entry to the Master of Engineering – Research, subject to supervisor availability.

Master of Internet Technology

Testamur Title of Degree:	Master of Internet Technology
Abbreviation:	MIT
Home Faculty:	Informatics
Duration:	1 year (2 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

Autumn/Spring	6
Autumn/Spring	6
	0
Autumn/Spring	6
Spring	6
Autumn/Spring	6
Autumn/Spring	6
Autumn	6
	Autumn/Spring Spring Autumn/Spring Autumn/Spring

ECTE995 ECTE996 ECTE997 IACT906 IACT918 ITCS922 ITCS937	Content Servers and Caching Technologies Multimedia Communications Web Technology and Applications Business On-Line Corporate Network Management Computer Security Security, Risk Management and Control in Electronic Commerce	n/o 2006 Autumn/Spring Spring Autumn Autumn Autumn Autumn	6 6 6 6 6 6 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 subje	cts** from the following, of which one must be an ECTE subject:		
CSC1968	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

* 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 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.

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.

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 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) 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 Biometric security

Intelligent Systems

Robotics Neural networks Machine vision Ultrasonic sensing Spatial databases Safety, risk and hazard analysis Distributed systems Databases Workflow and process modelling Software engineering Decision systems Supply chain management

Health Informatics

Aged care Ambulatory care Electronic health records Health record input systems Point-of-care solutions Privacy issues in EHRs

Master of Information and Communication Technology - Research

Testamur Title of Degree:	Master of Information and Communication Technology – Research
Abbreviation:	MInfoTech – Res
Home Faculty:	Informatics
Duration:	1.5 years (3 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

Overview

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.

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 Information and Communication Technology. If a candidate has a good academic record, 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)
- 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 course.

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 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 Computer Science. If a candidate has a good academic record, 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)

- 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 course.

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 & Communication Technology (Advanced)*

*subject to final approval

Testamur Title of Degree:	Master of Information and Communication Technology (Advanced)
Abbreviation:	MICT (Adv)
Home Faculty:	Informatics
Duration:	1.5-2 years (3-4 sessions) or part time equivalent
Total Credit Points:	72
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	TBC
CRICOS Code:	TBC

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 subdiscipline 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

1. The degree requires satisfactory completion of 900- level subjects to the value of at least 72 credit points, including:

- (a) the core subject ITCS900, Fundamentals of Contemporary Technologies.
- (b) eight (8) subjects (48cp) selected from the IACT Graduate Subjects List.
- (c) an additional three (3) subjects (18cp) selected from the IACT Graduate Subjects List, the CSCI Graduate Subjects List or 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(b) and (c) above.

3. 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-Busin	ness Spring	6
ITCS937 Security, Risk Management & Control in Electronic	c 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		
IACT924 Corporate Network Design and Implementation	Spring	6
Plus at least 18 credit points from the following subjects:	1 0	
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	c 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.

Information Te	chnology Management		
IACT901	IT Strategic Planning	Spring	6
Plus at least 18	3 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
IACT917	Information Management	Autumn	6
Health Informa	tics		
ITCS930	Introduction to Health Informatics	Autumn	6
Plus at least 18	3 credit points from the following subjects:		
GHMD909*	Comparative Health Systems: Policies and Politics	Spring	6

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 s	ubjects will be available every year.		

Additional Information

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.

Master of Computer Science (Advanced)*

*subject to final approval

Master of Computer Science (Advanced)
MCompSc (Adv)
Informatics
1.5-2 years (3-4 sessions) or part time equivalent
72
Face-to-face
Autumn/Spring
Wollongong
TBC
TBC

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

- 1. The degree requires satisfactory completion of 900- level subjects to the value of at least 72 credit points, including:
 - (a) at least nine (9) subjects (54cp) selected from the CSCI Graduate Subjects List.
 - (b) no more than three (3) additional subjects (18cp) selected from the CSCI Graduate Subjects List or the IACT Graduate Subjects List.
 - (c) with the prior approval of the course co-ordinator, no more than one (1) subject (6cp) 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. 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]

Subjects		Session	Credit Points
Digital Multime	edia Programming		
ITCS940	Multimedia Programming Foundations	Autumn	6
Plus at least 18	8 credit points from the following subjects:		
CSCI944	Perception and Planning	Spring	6
CSC1963	Advanced Computer Graphics	n/o 2006	6
DESN921*	Creative Industries: Design for Interactive Multimedia	Spring	6
ITCS932	Web Design	Spring	6
ITCS942	Multimedia 3D Modelling and Animation	Spring	6
ITCS943	Game Design and Programming	Autumn	6
Software Engin	eering		
ITCS933	Software Engineering Requirements and Specifications	Spring	6
Plus at least 1	8 credit points from the following subjects:		
CSCI910	Formal Methods in Software Engineering	Autumn	6
CSCI925	Topics in Software Engineering	n/o 2006	6
CSCI974	Systems Analysis	n/o 2006	6
ITCS921	Database Design and Implementation	Autumn	6
ITCS934	Software Process Management	Autumn	6
Computer and	Network Security		
CSCI968	Network Security	Spring	6
CSCI971	Computer Security	Spring	6
Plus at least 1	2 credit points from the following subjects:	1 0	
CSC1966	Coding for Secure Communication	Autumn	6
INF0912	Mathematics for Cryptography	Autumn	6
ITCS937**	Security, Risk Management and Control in Electronic	Autumn	6
	Commerce		

* Subjects marked with an asterisk (*) are from the Graduate Additional Subjects List. The course requirements allow at most 1 subject from the Graduate Additional 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 1 subject from the Graduate Additional Subjects List will only be allowed to count the first subject towards the total credit points for the degree.

** Subjects marked with an asterisk (**) are from the IACT Graduate Subjects List. The course requirements allow at most 3 subjects from the IACT Graduate Subjects List to be counted in the total credit points required for this degree (see course requirement 1(b) above). Candidates who do more than 3 subjects from the IACT Graduate Subjects List, will only be allowed to count the first 3 subjects towards the total credit points for the degree.

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*

*revised structure subject to final approval

Testamur Title of Degree:	Master of Computer Science
Abbreviation:	MCompSc
Home Faculty:	Informatics
Duration:	1 year (2 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:

- (a) at least five (5) subjects (30cp) selected from the CSCI Graduate Subjects List.
- (b) no more than three(3) additional subjects (18cp) selected from the CSCI Graduate Subjects List or the IACT Graduate Subjects List.
- (c) with the prior approval of the course co-ordinator, no more than one (1) subject (6cp) 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.

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]

Subjects		Session	Credit Points
Digital Multin	nedia Programming		
ITCS940	Multimedia Programming Foundations	Autumn	6
Plus at least	18 credit points from the following subjects:		
CSC1944	Perception and Planning	Spring	6
CSC1963	Advanced Computer Graphics	n/o 2006	6
DESN921*	Creative Industries: Design for Interactive Multimedia	Spring	6
ITCS932	Web Design	Spring	6
ITCS942	Multimedia 3D Modelling and Animation	Spring	6
ITCS943	Game Design and Programming	Autumn	6
Software Eng	ineering		
ITCS933	Software Engineering Requirements and Specifications	Spring	6
Plus at least	18 credit points from the following subjects:		
CSCI910	Formal Methods in Software Engineering	Autumn	6
CSC1925	Topics in Software Engineering	n/o 2006	6
CSC1974	Systems Analysis	n/o 2006	6
ITCS921	Database Design and Implementation	Autumn	6
ITCS934	Software Process Management	Autumn	6
Computer and	1 Network Security		
CSCI968	Network Security	Spring	6
CSCI971	Computer Security	Spring	6
Plus at least	12 credit points from the following subjects:		
CSC1966	Coding for Secure Communication	Autumn	6
INF0912	Mathematics for Cryptography	Autumn	6
ITCS937**	Security, Risk Management and Control in Electronic Commerce	Autumn	6

* Subjects marked with an asterisk (*) are from the Graduate Additional Subjects List. The course requirements allow at most 1 subject from the Graduate Additional 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 1 subject from the Graduate Additional Subjects List will only be allowed to count the first subject towards the total credit points for the degree.

** Subjects marked with an asterisk (**) are from the IACT Graduate Subjects List. The course requirements allow at most 3 subjects from the IACT Graduate Subjects List to be counted in the total credit points required for this degree (see course requirement 1(b) above). Candidates who do more than 3 subjects from the IACT Graduate Subjects List, will only be allowed to count the first 3 subjects towards the total credit points for the degree.

Note: Not all subjects will be available every year.

Master of Computer Studies

Testamur Title of Degree:	Master of Computer Studies
Abbreviation:	MCompStud
Home Faculty:	Informatics
Duration:	1.5-2 years (3-4 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 (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
Core Subjects MCS9102 MCS9103 MCS9114 MCS9124 MCS9203 MCS9204 MCS9212	Systems Algorithms & Problem Solving Procedural Programming Applied Programming Algorithms & Data Structures Object Programming and Frameworks Interacting Systems	Spring Autumn/Spring Autumn/Spring Autumn/Spring Autumn Autumn/Spring Autumn	6 6 6 6 6 6
Elective Subjea Plus no more t MCS9201 MCS9205 MCS9206 MCS9213 MCS9214 MCS9235	cts List A han 3 subjects from: Information Technology & Citizens' Rights Development Methods & Tools Markup Languages Java Programming & Object Oriented Design Distributed Systems Database Systems	Autumn Spring Autumn Spring Autumn Spring	6 6 6 6 6
Elective Subject Plus at least 2 MCS9301 MCS9315 MCS9317 MCS9317 MCS9318 MCS9322 MCS9323 MCS9324 MCS9334 MCS9337 MCS9361 MCS9457		Spring Spring Autumn Spring Spring Spring Autumn Autumn Spring Autumn Autumn Autumn	6 6 6 6 6 6 6 6 6 6 6 6 6

Master of Digital Multimedia

Testamur Title of Degree:	Master of Digital Multimedia
Abbreviation:	MDigMmedia
Home Faculty:	Informatics
Duration:	1 year (2 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 8 subjects, including:

- 1) Two Core Subjects (12cp); and
- 2) Six subjects (36cp) chosen from the list of electives below, or four subjects (24cp) plus the Multimedia Project (12cp).

Course Program

Subjects		Session	Credit Points
Core Subjects ITCS940 DESN921	Multimedia Programming Foundations Creative Industries – Design for Interactive Multimedia	Autumn Spring	6 6
	points from the following:		
CSC1944 CSC1946	Perception and Planning Multimedia Studies	Spring Autumn	6 6
ECTE996	Multimedia Communications	Spring/ Autumn	6
EDGI911 ENGG923	Information Technology in Education and Training Advanced Digital Sound & Imaging Techniques	Autumn n/o 2006	6 6
ITCS932	Web Design	Spring	6
ITCS941	Multimedia Graphics	Autumn	6
ITCS942 ITCS943	Multimedia 3D Modelling and Animation Game Design and Programming	Spring Autumn	6 6
ITCS945 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 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.

An intensive five-week Pathways into Postgraduate Informatics program is offered through Wollongong University College for those with little IT background.

Course Requirements

Candidates must successfully complete 8 subjects, including:

- 1) Two Core Subjects (12cp);
- 2) Two subjects (12cp) from Group A (Applied eCommerce);
- 3) Two subjects (12cp) from Group B (eCommerce Management); and
- 4) Two 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

Core SubjectsITCS 393eBusiness TechnologiesAutumn6BUSS907Electronic CommerceAutumn/Spring/6Sudents must choose at least 12 credit points from the following:BUSS909Spring6BUSS909Office Automation and Intranetsn/o 20066IACT906Business On-LineSpring6IACT924Corporate Network Design & ImplementationSpring6ITCS936Detailed Design of Integrated Solutions for eBusinessSpring6ITCS936Detailed Design of Integrated Solutions for eBusinessSpring6ITCS936Detailed Design of Integrated Solutions for eBusinessSpring6ITCS936Detailed Design of Integrated Solutions for eBusinessAutumn6ITCS940Multimedia Programming FoundationsAutumn6ITCS951Web Services for Dynamic eBusinessAutumn6ITCS9551Web Services for Dynamic eBusinessSpring6Group B:eCommerce ManagementAutumn6BUSS952Strategic Information SystemsAutumn/Spring6BUSS953Management & Information SystemsAutumn/Spring6BUSS954Management of Information SystemsAutumn6BUSS955Management of Information SystemsAutumn6BUSS956Management of Information SystemsAutumn/Spring6BUSS951Critical Issues in Information SystemsAutumn6BUSS951Critical Issues in Information	Subjects		Session	Credit Points
ITCS938 eBusiness Technologies Autumn 6 BUSS907 Electronic Commerce Autumn/Spring/ 6 Summer Summer 6 Subsseport Office Automation and Intranets n/o 2006 6 IACT901 IT Strategic Planning Spring 6 IACT904 Corporate Network Design & Implementation Spring 6 IACT924 Corporate Network Design & Implementation Spring 6 ITCS932 Web Design Spring 6 ITCS935 Detailed Design of Integrated Solutions for eBusiness Spring 6 ITCS930 Datated Design of Integrated Solutions for eBusiness Autumn 6 ITCS930 Patterns for eBusiness Autumn 6 ITCS950 Patterns for eBusiness Autumn 6 ITCS951 Web Services for Dynamic eBusiness Autumn 6 Students must choose at least 12 credit points from the following: Autumn 6 ROUS952 Strategic Information Systems Management Autumn 6 BUSS953 Management & Information Systems Autumn 6	Core Subjects			
BUSS907 Electronic Commerce Autumn/Spring/ Summer 6 Group A: Applied eCommerce Summer Summer BUSS909 Office Automation and Intranets n/o 2006 6 IACT901 IT Strategic Planning Spring 6 IACT906 Business On-Line Spring 6 IACT924 Corporate Network Design & Implementation Spring 6 ITCS932 Web Design Integrated Solutions for eBusiness Spring 6 ITCS935 Detailed Design of Integrated Solutions for eBusiness Spring 6 ITCS936 Patterine for eBusiness Autumn 6 ITCS937 Security, Risk Management & Control in Electronic Autumn 6 ITCS940 Multimedia Programming Foundations Autumn 6 ITCS951 Web Services for Dynamic eBusiness Spring 6 Group B: eCommerce Autumn 6 BUSS952 Strategic Information Systems Autumn 6 BUSS953 Management & Information Systems Autumn 6 BUSS954 Management & Information Systems Autumn 6 BUSS955 Supply Chain Management Autumn 6 BUSS951 Accounting for Managers		eBusiness Technologies	Autumn	6
Summer Group A: Applied eCommerce Students must choose at least 12 credit points from the following: BUSS909 Office Automation and Intranets IACT901 IT Strategic Planning Spring 6 IACT906 Business On-Line Spring 6 IACT924 Corporate Network Design & Implementation Spring 6 ITCS935 Detailed Design of Integrated Solutions for eBusiness Spring 6 ITCS936 Detailed Design of Integrated Solutions for eBusiness Spring 6 ITCS936 Detailed Design of Integrated Solutions for eBusiness Autumn 6 ITCS936 Detailed Design of Integrated Solutions for eBusiness Autumn 6 ITCS936 Patterns for eBusiness Autumn 6 ITCS950 Patterns for of Dynamic eBusiness Autumn 6 BUSS952 Strategic Information Systems Management Autumn 6 BUSS953 Management & Information Systems Management Autumn 6 BUSS954 Supply Chain Management Intake A/Intake C 6 Group C: Elective Subjects Autumn<	BUSS907		Autumn/Spring/	6
Students music choose at least 12 credit points from the following:BUSS909Office Automation and Intranetsn/o 20066IACT901IT Strategic PlanningSpring6IACT906Business On-LineSpring6IACT924Corporate Network Design & ImplementationSpring6ITCS932Web DesignSpring6ITCS936Detailed Design of Integrated Solutions for eBusinessSpring6ITCS937Security, Risk Management & Control in ElectronicAutumn6CommerceCommerce11ITCS950Patterns for eBusinessAutumn6ITCS951Web Services for Dynamic eBusinessSpring6Group B:eCommerce ManagementAutumn6SUSS952Strategic Information Systems ManagementAutumn/Spring6BUSS953Management of Information Systems DevelopmentSpring6BUSS953Management of Information Systems DevelopmentSpring6BUSS954Supply Chain ManagementIntake A/Intake C6Group C:Electronic Commerce & the Economics of Informationn/o 20066Group C:Electronic for ManagersIntake A/Intake C6BUSS951Chrical Issues in Information SystemsSpring6BUSS951Chrical Issues in Information SystemsSpring6BUSS951Chrical Issues in Information SystemsSpring6ITCS933Software Process ManagementAutumn6IDS95				
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* Offered by the University of Wollongong Graduate School of Business and Professional Development. 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.

Master of Health Informatics

Testamur Title of Degree:	Master of Health Informatics
Abbreviation:	MHealthInfo
Home Faculty:	Informatics
Duration:	1 year (2 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 8 subjects, including:

- 1) Three Core Subjects (18cp); and
- 2) Five 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 ITCS929 ITCS930	Information Management Concepts and Issues in Healthcare Computing Introduction to Health Informatics	Autumn Spring Autumn	6 6 6
Elective Subjective Subjective Plus at least 30	cts O credit points from the following*:		
GHMD909	Comparative Health Systems: Policies and Politics	Spring	6
GHMD924	Health Information Systems	n/o 2006	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	6
IACT950	Research Report	Spring/ Summer	12
INF0911	Data Mining and Knowledge Discovery	Spring	6
ITCS905	Information Technology B	Spring	6
ITCS908	Citizens' Rights in the Information Society	Autumn	6
or any other su	bject approved by the Head of School or the Course Co-ordin	ator/s prior to commencen	nent.

* 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 Industry-based Information Technology

Testamur Title of Degree:	Master of Industry-based Information Technology
Abbreviation:	MIIT
Home Faculty:	Informatics
Duration:	1 year (2 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
1 D 1	

* 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 Academic subjects (24cp).

To be awarded with a major study, 3 subjects must be selected from one of the groups of subjects listed below.

Subjects		Session	Credit Points				
Software Eng	Software Engineering						
CSCI910	Formal Methods in Software Engineering	Autumn	6				
CSCI925	Topics in Software Engineering	n/o 2006	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 2006	6				
ITCS937	Security, Risk Management and Control in Electronic Commerce	Autumn	6				

Information	Management
mormation	wanagement

information mai	agement				
CSCI957 IACT916	Advanced Topics in Database Management Organisational Issues in Information Technology	Autumn Autumn	6 6		
IACT917	Information Management	Autumn	6		
IACT919	On-Line Information Services	Spring	6		
IACT926	Information Society, Knowledge Work and Information Technology	n/o 2006	6		
ITCS936	Detailed Design of Integrated Solutions for eBusiness	Spring	6		
Multimedia					
CSC1946	Multimedia Studies	Autumn	6		
CSC1963	Advanced Computer Graphics	n/o 2006	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.

Master of Information & Communication Technology*

*revised structure subject to final approval

Testamur Title of Degree:	Master of Information and Communication Technology
Abbreviation:	MICT
Home Faculty:	Informatics
Duration:	1 year (2 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.

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.

Course Requirements

1. The degree requires satisfactory completion of 900- level subjects to the value of at least 48 credit points, including:

- (a) the core subject ITCS900, Fundamentals of Contemporary Technologies.
- (b) four (4) subjects (24cp) selected from the IACT Graduate Subjects List.
- (c) an additional three (3) subjects (18cp) selected from the IACT Graduate Subjects List, the CSCI Graduate Subjects List or 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(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 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 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		
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
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.

Information Te	chnology Management		
IACT901	IT Strategic Planning	Spring	6
Plus at least 18	B 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
IACT917	Information Management	Autumn	6

Health Informatics

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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
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 su	bjects will be available every year.		

Master of Information Technology Management

Master of Information Technology Management
MITM
Informatics
1 year (2 sessions) or part-time equivalent
48
Face-to-face
Autumn/Spring
Wollongong/ offshore*
1509
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, Telecommunications Engineering).

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
Group A			
IACT901	IT Strategic Planning	Spring	6
IACT905	Information Technology and Innovation	Autumn	6
IACT906	Business On-Line	Spring	6
IACT916	Organisational Issues in Information Technology	Autumn	6
IACT917	Information Management	Autumn	6
IACT918	Corporate Network Management	Autumn	6
IACT919	On-line Information Services	Spring	6
IACT922	Case Studies in Information Technology Applications	Spring	6
IACT932	Special Topics in Information and Communication Technology B	n/o 2006	6
ITCS936	Detailed Design of Integrated Solutions for eBusiness	Spring	6
ITCS937	Security, Risk Management & Control in Electronic Commerce	Autumn	6
Or any other sul	bject approved by the Head of School, prior to commencement	t.	
Group B BUSS952 MARK901	Strategic Information Systems Management Marketing on the Internet	Autumn Spring	6 6
WANN901		Shing	0

TBS901*	Accounting for Managers	Intake A/Intake C	6
TBS902*	Statistics for Decision Making	n/o 2006	6
TBS903*	Managing People in Organisations	Intake B/Intake D	6
TBS904*	Marketing Management	Intake B/Intake D	6
TBS906*	Information Systems for Managers	Intake A/Intake C	6
TBS908*	Supply Chain Management	Intake A/Intake C	6
TBS920*	International Business Strategy	Intake B/Intake D	6
TBS929*	Management of Process Innovation	n/o 2006	6
TBS950*	Quality in Management	n/o 2006	6
TBS981*	Employment Relations in an International Context	Intake A/Intake C	6
Or any other subj	ect approved by the Head of School, prior to commencement.		

*Offered by the University of Wollongong Graduate School of Business and Professional Development. 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 session) or part-time equivalent
Total Credit Points:	24
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
UOW Course Code:	1146
CRICOS Code:	046871F

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 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.

Graduate Certificate in Information and Communication Technology

Testamur Title of Degree:	Graduate Certificate in Information and Communication Technology
Abbreviation:	GCertInfoTech
Home Faculty:	Informatics
Duration:	6 months (1 session) or part-time equivalent
Total Credit Points:	24
Delivery Mode:	Face-to-face
Starting Session(s):	Autumn/Spring
Location:	Wollongong
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. Advanced standing of 24 credit points will be granted towards the Masters degree.

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.

CSCI Graduate Subjects List

Subjects		Session	Credit Points
CSC1907	Corba & Enterprise JAVA	Spring	6
CSC1908	Distributed JAVA	n/o 2006	6
CSCI910	Formal Methods in Software Engineering	Autumn	6
CSC1925	Topics in Software Engineering	n/o 2006	6
CSC1944	Perception and Planning	Spring	6
CSC1945	Parallel Computing	n/o 2006	6

CSCI946Multimedia StudiesCSCI957Advanced Topics in Database ManagementCSCI963Advanced Computer GraphicsCSCI964Neural ComputingCSCI965Design and Analysis of AlgorithmsCSCI966Coding for Secure CommunicationCSCI967Complexity TheoryCSCI978Network SecurityCSCI974Systems AnalysisCSCI974Systems AnalysisCSCI974Systems AnalysisCSCI971Data Mining and Knowledge DiscoveryINF0911Data Mining and Knowledge DiscoveryINF0912Mathematics for CryptographyINF0913Information TheoryITCS921Database Design & ImplementationITCS931Advanced Web Application DevelopmentITCS932Web DesignITCS934Software Engineering Requirements and SpecificationsITCS941Multimedia Programming FoundationsITCS942Multimedia 3D Modelling and AnimationITCS943Game Design and Programming	Autumn Autumn n/o 2006 Autumn n/o 2006 Autumn n/o 2006 Spring n/o 2006 Annual Spring Autumn Spring Autumn n/o 2006 Spring Spring Autumn Autumn Autumn Autumn Spring Autumn	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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IACT Graduate Subjects List

Subjects		Session	Credit Points
IACT901	IT Strategic Planning	Spring	6
IACT902	Applied Project Management	Spring	6
IACT904	International Telecommunications Policy Issues	n/o 2006	6
IACT905	Information Technology and Innovation	Autumn	6
IACT906	Business On-Line	Spring	6
IACT916	Organisational Issues in Information Technology	Autumn	6
IACT917	Information Management	Autumn	6
IACT918	Corporate Network Management	Autumn	6
IACT919	On-line Information Services	Spring	6
IACT922	Case Studies in Information Technology Applications	Spring	6
IACT924	Corporate Network Design and Implementation	Spring	6
IACT926	Information Society, Knowledge Work and Information Technology	n/o 2006	6
IACT930	Special Topics in Information and Communication Technology	n/o 2006	6
IACT931	Special Topics in Information and Communication Technology A	Autumn	6
IACT932	Special Topics in Information and Communication Technology B	n/o 2006	6
IACT940	Research Methodology	Autumn	6
IACT950	Research Report	Spring/Summer	12
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
CSCI981	Preliminary Topics in Computer Science B	n/o 2006	6
CSC1982	Preliminary Topics in Computer Science C	n/o 2006	6
CSC1983	Preliminary Topics in Computer Science D	n/o 2006	6
DESN921	Creative Industries: Design for Interactive Multimedia	Spring	6
GHMD909	Comparative Health Systems: Policies and Politics	Spring	6
GHMD983	Statistics in Health Research	Spring	6
ITCS922	Computer Security	Autumn	6

Any subject at 900- level from: BUSS, MATH, STAT, ECTE or TBS.

Any other 900- level subject 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.

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 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

Statistical and Survey Methodology

e-Education Epidemiology Experimental design Goodness of fit Image analysis Multivariate analysis Neural networks Nonparametrics Quasi-likelihood Sample survey design, analysis and methodology Spatial statistics Statistical decision theory Statistical quality control Time series analysis

Mathematical Analysis

Algebra Analysis Harmonic analysis and wavelets Group theory Topology and chaos Logic and partial differential equations Topological groups Measure theory Number theory Functional analysis Combinatorial designs

Mathematical Finance

Other Information

It is possible to downgrade enrolment from a PhD to a Master of Science - Research, with the permission of the Head of School.

Master of Science - Research (Mathematics)

Testamur Title of Degree:	Master of Science - Research
Abbreviation:	MSc-Res
Home Faculty:	Informatics
Duration:	1.5 years (3 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 mathematics. The degree will provide students with the skills required for sound practice in mathematics 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 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 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 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 2006	6
MATH904	Stability for Partial Differential Equations	n/o 2006	6
MATH905	Functional Analysis and Control Theory	n/o 2006	6
MATH912	Mathematics of Microwave Heating	Autumn	6
MATH913	Fluid Mechanics and Wave Theory	n/o 2006	6
MATH915	Applied Nonlinear Partial Differential Equations	n/o 2006	6
MATH916	Heat Conduction and Moving Boundary Problems	n/o 2006	6
MATH917	Advanced Numerical Analysis	n/o 2006	6
MATH918	Computational Fluid Mechanics	n/o 2006	6
MATH921	Advanced Functional Analysis	n/o 2006	6
MATH923	Measure and Integration	n/o 2006	6
MATH924	Distributions	n/o 2006	6
MATH925	Topics in Algebra	n/o 2006	6
MATH926	Logic and Set Theory	Spring	6
MATH927	Combinatory Logic	n/o 2006	6
MATH928	Advanced Measure Theory	n/o 2006	6
MATH929	General Topology	n/o 2006	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
Note: Subjec	ts offered may vary each year. Check the subject database or cor	tact the School for	r up-to-date subject

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 (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: <u>www.uow.edu.au/research/rsc/hdrhb/course-transfers.html</u>

Master of Science - Research (Statistics)

Testamur Title of Degree:	Master of Science - Research
Abbreviation:	MSc-Res
Home Faculty:	Informatics
Duration:	1.5 years (3 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

	Session	Credit Points
Modern Inference	Autumn	6
Advanced Data Analysis	Autumn	6
Survey Design and Analysis	Spring	6
Statistical Consulting	Spring	6
Time Series	n/o 2006	6
Experimental Design	n/o 2006	6
Statistical Quality Control 1	n/o 2006	6
Design and Analysis for Quality Control	n/o 2006	6
Regression and Observational Studies	n/o 2006	6
Preliminary Topics in Statistics A	Autumn	6
Preliminary Topics in Statistics B	Autumn/Spring	6
Advanced Topics in Statistics A	Autumn	6
Advanced Topics in Statistics B	n/o 2006	6
Advanced Topics in Statistics C	n/o 2006	6
	Advanced Data Analysis Survey Design and Analysis Statistical Consulting Time Series Experimental Design Statistical Quality Control 1 Design and Analysis for Quality Control Regression and Observational Studies Preliminary Topics in Statistics A Preliminary Topics in Statistics B Advanced Topics in Statistics B	Modern InferenceAutumnAdvanced Data AnalysisAutumnSurvey Design and AnalysisSpringStatistical ConsultingSpringTime Seriesn/o 2006Experimental Designn/o 2006Statistical Quality Control 1n/o 2006Design and Analysis for Quality Controln/o 2006Regression and Observational Studiesn/o 2006Preliminary Topics in Statistics AAutumnPreliminary Topics in Statistics BAutumnAdvanced Topics in Statistics Bn/o 2006Advanced Topics in Statistics Cn/o 2006

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: <u>www.uow.edu.au/research/rsc/hdrhb/course-transfers.html</u>

Master of Mathematics

Testamur Title of Degree:	Master of Mathematics
Abbreviation:	MMath
Home Faculty:	Informatics
Duration:	1 year (2 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 years of mathematics may be considered.

Course Requirements

The degree will normally occupy two sessions of full-time study or four 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
MATH991	Project	Annual	12
Plus at least 3	6 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 2006	6
MATH904	Stability for Partial Differential Equations	n/o 2006	6
MATH905	Functional Analysis and Control Theory	n/o 2006	6
MATH912	Mathematics of Microwave Heating	Autumn	6
MATH913	Fluid Mechanics and Wave Theory	n/o 2006	6
MATH915	Applied Nonlinear Partial Differential Equations	n/o 2006	6
MATH916	Heat Conduction and Moving Boundary Problems	n/o 2006	6
MATH917	Advanced Numerical Analysis	n/o 2006	6
MATH918	Computational Fluid Mechanics	n/o 2006	6
MATH921	Advanced Functional Analysis	n/o 2006	6
MATH923	Measure and Integration	n/o 2006	6
MATH924	Distributions	n/o 2006	6
MATH925	Topics in Algebra	n/o 2006	6
MATH926	Logic and Set Theory	Spring	6
MATH927	Combinatory Logic	n/o 2006	6
MATH928	Advanced Measure Theory	n/o 2006	6
MATH929	General Topology	n/o 2006	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 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 sessions of full-time study or four 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 a	pproval of the Head of School, candidates may replace S	STAT990 with:	
STAT991	Project	Annual	12
Electives			
Plus at least 4	42 credit points (or 36 credit points if STAT991 is unde	rtaken) chosen from the following	ng list, as approved
by the Head o			
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 2006	6
STAT906	Experimental Design	n/o 2006	6
STAT920	Stochastic Methods in Finance	Spring	6
STAT941	Statistical Quality Control 1	n/o 2006	6
STAT942	Design and Analysis for Quality Control	n/o 2006	6
STAT944	Regression and Observational Studies	n/o 2006	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 2006	6
STAT983	Advanced Topics in Statistics C	n/o 2006	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 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 sessions of full-time study or four 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	Advanced Risk & Insurance	Spring	6
FIN921	Managerial Finance	Autumn/Spring	6
MATH941	Financial Calculus	Autumn	6
MATH942	Numerical Methods	Spring	6
MATH943	Practitioners' Seminars	Annual	0
STAT920	Stochastic Methods in Finance	Spring	6
STAT921	Multiple Regression & Time Series	Spring	6
Plus one STA	T 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 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 sessions of full-time study or four 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.