SESSION DATES

**Summer Session**  8 December 97 - 15 February 1998
Lectures Commence  8 December 1997
Christmas Recess  22 Dec 1997 - 4 Jan 1998
Lectures Recommence  5 January 1998
Examinations  7 - 15 February 1998

**Autumn Session**  23 February - 19 July 1998
Orientation Week  23 February - 1 March
Lectures Commence  2 March - 12 April
Easter Recess  13 April - 19 April
Lectures Recommence  20 April - 14 June
Study Recess  15 June - 19 June
Examinations  20 June - 5 July
Mid Year Recess  6 - 19 July

**Spring Session**  20 July - 6 December 1998
Lectures Commence  20 July - 27 September
Recess  28 September - 11 October
Lectures Recommence  12 October - 8 November
Study Recess  9 - 13 November
Examinations  14 November - 6 December

LIBRARY HOURS

**March** - December
Monday to Friday  8:30am -10:00pm
Saturday  9:00am - 5:00pm
Sunday  1:00pm - 5:00pm

**Curriculum Resources Centre**
Monday to Thursday  8:30am - 5:00pm
Friday  8:30am - 4:00pm

LOCATION OF COMPUTER FACILITIES

**Eastern Computing Laboratory**  Bld 43
Monday to Thursday  9am to 9pm
Friday  9am to 5pm

**PC Lab 1** - 30 x 486DX networked PC-compatible
- 1 x laser printer and 2 line printers

**PC Lab 2** - 20 x 486DX networked PC-compatible
- 1 x laser printer and 2 line printers

**ITS Western Laboratories**  Bld 22
Monday to Friday  8:30am to 9.30pm

**Grd Flr MacLab** - 20 x Macintosh LC computers
- 30 x Macintosh LC 520 computers
- 25 x Colour Classic computers
- 2 x laserwriters

**Library Laboratories**  Bld 16
Closes 30 mins before Library

**Mac Lab** - 40 x Macintosh LC575 computers
- 4 x Laser printers

**PC Lab** - 4 x 486DX multimedia PCs
- 30x 386SX networked PC compatibles
- 1 x line printer and 1 laser printer
- 30 x OPAC terminals (in library)

**Terminal Labs**  8:30am to 9:30pm

**Bld 19**
- 20 x VT220 Terminals
- 1 x line printer

**Bld 15**
- 16 x VT220 Terminals
- 1 x line printer

**Note:** A list of software packages available can be found on lab notice boards.

For the location of Faculty Computing Laboratories, please contact your Faculty.

**Campus Personal Computing (ITShop)**  Bld 16
Monday to Friday  9am to 5pm

**ITS Call Centre**  Bld 15
Monday to Friday  8:30am to 5:30pm

PAYMENT OF CHARGES

The Enquiry Counter (ground floor of Building 36) is open for the payment of charges from 9:00am - 5:00pm Monday to Friday. Hours may be extended during enrolment, details of which are posted on notice boards.
University of Wollongong

Postgraduate Calendar 1998

Northfields Avenue,
Wollongong, NSW 2522
Australia
Telephone: (02) 4221 3555
Facsimile: (02) 4221 3477

All enquiries should be addressed to
the Vice-Principal (Administration).

RRP $10
Postage Extra
ARMS OF THE UNIVERSITY

The principal elements incorporated in the arms of the University are the blue of the sea, the gold of the sand and the red of the Illawarra flame tree. The open book often used for educational institutions has also been included.

The blazon is “Azure a book expanded Argent bound and clasped Or on a Chief of the last three Cinquefoils pierced Gules”.

THE UNIVERSITY

The main campus of the University of Wollongong is located at the foot of Mt Keira about three kilometres from the centre of Wollongong and 80 kilometres south of Sydney.

The University had its foundation in 1951 when the New South Wales University of Technology established a Division at Wollongong. In 1961 the Division became a College of the University of New South Wales. In 1975, by Act of New South Wales Parliament, the University became an autonomous institution. In 1982 it was amalgamated, again by Act of New South Wales Parliament, with the adjoining Wollongong Institute of Education (which had been founded in 1962 as the Wollongong Teachers’ College).

The University provides courses and undertakes research and other activities of accepted university standard.

The total student enrolment now exceeds 12,000. The student body is diverse and stimulating, yet small enough to retain a friendly and relaxed atmosphere.

Students and intending students are advised to contact the Student Enquiries Office at the University for any further information they may require.

THE UNIVERSITY ACT AND BY-LAW

The University of Wollongong is established under an Act of the New South Wales Parliament. The latest version of that Act - University of Wollongong Act 1989 - defines the constitution and functions of the University, including the authority and composition of its Governing Council and the provisions for its financial reporting and investments. The University has one By-Law approved by Parliament. The By-Law prescribes, for example, the electoral procedures for Council and the Academic Senate and the authority and functions of the Vice-Chancellor.

The University’s operating legislation extends to Rules made in accordance with the By-Law. The Rules govern the management of the University and the conduct and obligations of its members. The major Rules related to students and their courses are reproduced in full in this Calendar (see page 20) and copies of the Act and by-Law are available from the Secretariat (Tel: 02 4221 3360).
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GOVERNANCE AND CENTRAL ADMINISTRATION

Visitor
His Excellency the Governor of New South Wales

Chancellor
Michael H. Codd AC, BEc(Hons) Adel

Deputy Chancellor
Brian Somerville Gillett, BA DipEd Syd, HonDLitt, ACES

THE UNIVERSITY COUNCIL

Elected by the Legislative Council
The Honourable Reverend Fred Nile, MLC

Elected by the Legislative Assembly
Mr Colin Markham, MLA

Ministerial Nominees
Beverley Lawson APM, AssocDipAdmin, AFAIM
Brian Somerville Gillett, BA DipEd Syd, HonDLitt, ACES
George Edgar, BSc UNSW
Roderick John Oxley, BBus AssDipLocalGovt Admin Mitchell, CPA, FAIM

Ex Officio
The Chancellor: Mr Michael H. Codd AC, BEc(Hons) Adel
The Vice-Chancellor and Principal: Professor Gerard R Sutton, BE MEng Sc UNSW, PhD CUA
The Chairperson of the Academic Senate: Associate Professor Robert G Castle MEC Syd

Appointed by Council
Brian Stewart Hickman BSc MSc DSc Melb

Elected by the Students of the University
Mr Andrew Cochrane

Elected by Convocation
Ms Kerrie Christian, BMet
Ms Shirley Anne Nixon, BA
Mr Keith Phipps, AM, BA, Dip Ed
Mr John Steinke, BA, MA, Calif

Elected by the Full-time Academic Staff of the University
Mr Ron Perrin, BBus UTSA Mcom, ASA, AFAIM
Ms Ann Hodgkinson, BCom Qld, MEC Adel

Elected by the Full-time General Staff of the University
Ms Felicity McGregor, BA DipLib UNSW, AALIA

THE ACADEMIC SENATE

Chairperson of Senate
Associate Professor Robert G Castle

Deputy Chairperson of Senate
Professor Joan Cooper

EX OFFICIO MEMBERS
Mr Michael Codd, Chancellor
Professor Gerard R Sutton, Vice-Chancellor and Principal
Professor Peter M Robinson, Deputy Vice-Chancellor
Professor Christine E Ewan, Pro Vice-Chancellor (Academic)
Professor William J Lovegrove, Pro Vice-Chancellor (Research)
Mr David W Rome Vice-Principal (Administration)
Mr Jim Langridge, Vice-Principal (International)
Mr Greg Naimo, Director, Information Technology Services
Professor Sandra Willis, Director, Centre for Educational Development and Interactive Resources

Dean of Students
Ms Josephine Castle

ELECTED MEMBERS

Directors of Institutes
Professor John Morrison, Environment Research Institute
Professor SX Dou, Institute for Materials Technology & Manufacturing
Professor Leon Leon-Maguire, Institute for Molecular Recognition
Associate Professor Andrew Wells, Institute for Social Change and Critical Enquiry
Professor R Dippenaar, Institute for Steel Processing and Products
Professor Gary Anido, Institute for Telecommunications Research
Associate Professor Chris Nyland, International Business Research Institute

Students
Ms Elisa Arcioni
Ms Vanessa Badham
Ms Carol Barry
Mr David Branson
Mr Damien Cahill
Ms Julie Fredericks

Student Services
Mr Greg Hampton, Counselling Services
Dr Diane Snow, Aboriginal Education Centre
Mr Bill Harrison, Aboriginal Education Centre

FACULTY MEMBERS

Faculty of Arts
Ex-Officio
Professor James Weland

Elected
Dr Rebecca Albury
Dr Graham Barwell
Professor John Bern
Catriona Elder
Heni Jeanjean
Dr Brian Martin
Professor John McQuilton
Stewart Russell
Dr Peter Sales
Suzanne Unlade

Faculty of Commerce
Ex-Officio
Professor Gill Palmer, Dean
Professor Michael J R Gaffikin, Department of Accounting & Finance
Professor John Glynn, Business School
Professor Graham K Winley, Department of Business Systems
Professor A B Sim, Department of Management
Mr P Scott, Department of Marketing

Elected
Dr Barbara Cornelius
Ms Mary Kaidonis
Ms Diana Kelly
Professor Don Lewis
Dr Bob Williams
Dr Michael Zanko

Faculty of Creative Arts
Ex-Officio
Professor Sharon Bell, Dean
Associate Professor Andrew Schultz

Elected
Ms Janys Hayes
Associate Professor Ron Pretty
Mr David Vance
Dr Diana Wood-Conroy
Faculty of Education

Ex-Officio
Associate Professor John Patterson, Dean
Associate Professor John Hedberg, Associate Dean
Dr Nita Temmerman, Associate Dean

Elected
Dr Ian Brown
Professor Carla Fasano
Dr Brian Ferry
Ms Yvonne Kerr
Dr Janice Wright

Faculty of Engineering

Ex-Officio
Professor Brendon Parker, Faculty of Engineering,
Associate Professor Robin Chowdhury, Department of Civil & Mining Engineering
Professor Druce Dunne, Department of Materials Engineering
Professor Kiel Tieu, Department of Mechanical Engineering

Elected
Dr Muhammad Hadi
Dr John Montagner
Associate Professor Dennis Montgomery
Dr Sharon Nightingale
Associate Professor Siva Sivakumar

Faculty of Health & Behavioural Sciences

Ex-Officio
Professor Len Storlien, Faculty of Health and Behavioural Sciences
Dr Mark Brown, Head, Department of Biomedical Sciences
Associate Professor Rhonda Griffiths, Department of Nursing
Professor Robert Barry, Department of Psychology
Professor Dennis Calvert, Department of Public Health and Nutrition

Elected
Dr Patrick Heaven
Associate Professor Anthony Hodgson
Ms Tracy McDonald
Associate Professor Beverly Walker
Ms Margaret Wallace
Ms Heather Yeatman

Faculty of Informatics

Ex-Officio
Professor Ah Chung Tsoi, Faculty of Informatics
Professor Chris Cook, School of Electrical, Computer and Telecommunications Engineering
Associate Professor Joan Cooper, School of Information Technology and Computer Science
Associate Professor John Rayner, School of Mathematics and Applied Statistics

Elected
Professor Philip Broadbridge
Associate Professor Joseph Chicharo
Professor David Griffiths
Dr Philip Laird
Associate Professor Grahame Morris
Associate Professor Rei Safavi-Naini

Faculty of Law

Ex-Officio
Professor Helen Gamble, Faculty of Law
Associate Professor Colin Thompson, Faculty of Law

Elected
Mr Damien Considine
Mr Andrew Kelly
Ms Sandra Mercado
Ms Natalie Stoianoff

Faculty of Science

Ex-Officio
Professor Robert Norris, Faculty of Science
Professor Robert Whelan, Department of Biological Sciences
Professor John Bremner, Department of Chemistry
Professor Alan Chivas, Department of Geosciences
Professor William Zealley, Department of Physics

Elected
Dr Kris French
Dr Will Price
Dr Sharon Robinson
Dr Lou Rodgeron
Associate Professor Roger Truscott
Associate Professor Colin Woodroffe

THE DEANS

Dean of Faculty of Arts
Professor James M Wieland, BA WA, MA PhD Qu

Dean of Faculty of Commerce
Professor Gill Palmer, BScSc (Hons) Birm, MSc LSE, PhD City UK, FAIM, FAHRI

Dean of Faculty of Creative Arts
Professor Sharon Bell, BA PhD Syd

Dean of Faculty of Education
Associate Professor John Patterson, MSc Oregon, MEd Syd, Ed DN Colorado

Dean of Faculty of Engineering
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Dean of Health and Behavioural Sciences
Professor Len Storlien, BSc (cum laude) Lethbridge, MA Br Col, PhD ANU

Dean of Faculty of Informatics
Professor Ah Chung Tsoi, MSc, PhD, BD, FIE Aust, SMIEEE, CPEng

Dean of Faculty of Law
Professor Helen Gamble, LLB LLM ANU, Barrister and Solicitor ACT, Barrister NSW

Dean of Faculty of Science
Professor Robert K Norris, BSc(Hons) PhD, DSc Syd, DIC Lond FRACI

Dean of Students
Josephine Castle, BA Syd, MA Warw

SENIOR EXECUTIVE UNIT

Vice-Chancellor and Principal
Professor Gerard R Sutton, BE MEngSc UNSW, PhD CUA

Deputy Vice-Chancellor
Professor Peter Robinson, AM, BSc (Hons) PhD DSc Wales

Pro Vice-Chancellor (Academic)
Professor Christine E Ewan, MB BS MA PhD Syd, FAFPHM

Pro Vice-Chancellor (Research)
Professor William J Lovegrove, BA PhD Qld, MAppS

Vice-Principal (Administration)
David W Rome, BSc MSc W Aust.

Vice-Principal (International)
James W Langridge, BBus UTS, DipTertEd NE, MACS

Personal Assistant to the Vice-Chancellor
Halina Majer
NON FACULTY STAFF

REPORTING TO THE VICE-CHANCELLOR

INTERNAL AUDITOR
Charles E J Ross

UNIVERSITY DEVELOPMENTS OFFICER
David Fuller, BEd, MA Lancs

UNIVERSITY OF WOLLONGONG FOUNDATION LIMITED
Executive Director
Peter Rose, BA Macq, ACES

Assistant Manager
David T Muscio, BA DipEd UNSW, MA Med Syd, DipComEd NE, DipComm, MACE, MACEA, ACES

Consultant
Brian S Gillett, BA DipEd Syd, HonDLitt ACES

REPORTING TO THE DEPUTY VICE-CHANCELLOR

EQUAL EMPLOYMENT OPPORTUNITY, FREEDOM OF INFORMATION & PRIVACY
Director
Christine Hayward, BA, B.LegS(Hons) Macq, LL.M Syd, PGD LegAdmin UTS

PLANNING SERVICES
Manager, Planning Services
David Macpherson, BMath GDipAccy

Statistical Officer
Aden Steinke, BCom, MEd

Statistical Analyst
Toni Dobbs, BA

Planning Officer
Brenda Weeks, BSc(Hons)

REPORTING TO THE PRO VICE-CHANCELLOR (RESEARCH)

OFFICE OF RESEARCH
Director
Aapo Skorulis, BSc Macq, DipEd KCAE

Research Contracts Manager
Tempe Lees, BSc, BLegSt Macq, DipMusStud Syd, GradDipLegPrac UTS, Solicitor.

Grants Officer
Mark Devine

REPORTING TO THE PRO VICE-CHANCELLOR (ACADEMIC)

OFFICE OF THE DEAN OF STUDENTS
Dean of Students
Josephine Castle, BA(Hons) Syd, MA Warw

Regional Disability Liaison Officer
Hazel England, BA (Hons), DipEd London Institute of Education, EFL Brighton Language College

STUDENT SERVICES
Head
Gregory Hampton, BA(Hons) Macq, PhD, MAPsS

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Pauline McDonald, LLB Queens, DipCareerGuid Belfast & Birmingham

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George Magdulski, BA(Hons), GradDipConRes Macq, MA ANU, MAPsS

Learning Development Academic Staff
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Kim Draisma, BA(Hons) DipEd

Lecturers
Jan Skillen, BA(Hons) PhD Newcastle
Margaret Merten, BA(Hons) Syd

Associate Lecturers
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Neil Trivett, BA

Disability Services
Elizabeth Francis, DipTeach, BA(Hons), BCA

ABORIGINAL EDUCATION CENTRE
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ATAS Education Assessment Officer
Charles Wilson

Senior Lecturer
Dianne Snow, BA(Hons), DipEd, PhD

Associate Lecturer
Vacant

Administrative Assistant
Lisa Russell

Aboriginal Studies Resource Officer
Kim Gadd, BA(Hons), DipEd

Student Support Officer
Carol Speechley, BA

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Maureen E Bell, BA(Hons), DipEd UNSW, MAd Ed UTS
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Electronic Publishing Coordinator
Gloria Wood

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John Rickleman

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Information Services Librarian
vacant

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Keith Gaymer, BA Syd, DiplLib UNSW, AALIA (Education)
Deirdre Jewell, TC Ammitale, BA DiplLib UNSW (Science)
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Cattriona McGurk, BA, GradDiplLib & InfoSci QUE (Arts)
Helen Mandl, BA DipEd UNE, GradDiplInfMgmt (Lib) UNSW, AALIA (Informatics)
Chrsisy Ralston, BSW(Hons) UNSW, GradDiplAppSci (Info) UTS, AALIA (Creative Arts)
Gay Antonopolous, BA Wisconsin, AALIA (Law)
Vicki Dodd, BSc MCc, DiplMLib UNSW (Law)

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Cataloguing
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Senior Administrative Officer
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Donna West

Student Administration
Senior Administrative Officer
Marna Evans, BMath

Admissions
Administrative Officer
Christopher Hadley

Student Records
Administrative Officer
Leonie Grimmett, BCom

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Susan Church - Arts, Informatics
Joanne Hickey, BA - Commerce, Creative Arts
Christine Walkarn - Education, Law
Donna Edwards - Commerce, Education
Maureen Shears - Fee Paying, Wollongong On Line

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Student Systems
Craig Peden, BCom

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Assistant Director, Personnel Services
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Finance Accountant
Paul Murphy, BBus

Account Systems Supervisor
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Manager, Personnel Operations  
Nathan Asher, BA

Manager, Employee Relations  
David Wedgwood

Manager, Career Development  
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Manager, Occupational Health and Safety  
Gerry Holmes, BSc, MSc, LLB, DipSocStud, DipAdEd

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Syd, DipEd  
UNSW

Financial Co-ordinator  
Andrew Jeffrey, BCom

Finance Officer  
Kevin W Knox

Client Services & Infrastructure  
Associate Director  
Gary Kelly

Client Services Co-ordinator  
Sennur Oney

Network Design Co-ordinator  
Richard Wilson

Communication Co-ordinator  
Peter Moerkken

Technical Support Co-ordinator  
Wendy Myers

Systems Co-ordinator  
Stephen Cliffe, BCompSci

Training Co-ordinator  
Susan Gardener

Technology Deployment Co-ordinator  
Allen Chang

Maintenance Co-ordinator  
Desmond Fitzsimons, DipComApps

Corporate Information Services  
Associate Director  
Vacant

Manager, Corporate Data  
Trevor Gollan

Manager, Corporate Processes  
Michele Mildenhall

Project Manager  
Mark Hall, BA NE

Systems & Data Base Administrator  
Michael Potter, BCompSci(Hons)

REPORTING TO THE VICE-PRINCIPAL  
(INTERNATIONAL)

ADMISSIONS  
Manager, Admissions  
Dr Grahame Morris, BSc N’cle, PhD  
UNSW

Admissions Co-ordinators  
Paula Moss, BSc UMASS, BSc (Hons)  
UNSW

Viv Roberts

BUSINESS DEVELOPMENT UNIT  
Director, International Business Development  
Kaye Cox, BEd, AssDipAdultEd  
UTS

Manager, Business Development  
John McKelvey, DipTch, BA (Hons), BSocSc  
UNE, GradDipAppLings (TESOL)  
NTU

Manager, Operations  
Canio Fierravanti, BCom

Project Director  
Paul Bargon, BCom (Hons)  
UNSW, DipEd  
UNE, MCom (Hons)

EXTERNAL RELATIONS  
Director, External Relations  
Eric J Meadows, BA (Hons)  
Syd

Alumni Office  
Executive Officer  
Vacant

Media Services Unit  
Head, Media Services Unit  
Bernie Goldie BA  
UNE

Public Relations Co-ordinator  
Gillian Curtis

Protocol Office  
Protocol Officer  
Heidi De Coster

MARKETING SERVICES  
Manager, Marketing & Research  
Andra Mednis, BA, MA, MCom  
UNSW

Publications Co-ordinator  
Megan Armstrong, BA VisArts, SCAE

RECRUITMENT  
Manager, Student Recruitment  
Peter Day, BA (Hons)  
Syd RSADipTEFLA

Adviser, Prospective Students  
Elizabeth A Hilton, DipPE  
Lond IE

International Programs Advisers  
Miranda Baker, BA (Hons) UNSW, MBA  
Kerry Lyon

Lily Soh BSc  
UNSW

International Programs Adviser & Study Abroad  
Patricia Tindall, BA ANU

Prospective Students Officer  
Natalie Chapman, BSc-C Syd BSc (Hons)  
UNSW

Study Abroad Officer  
Amanda Howard, BA Metb, MA International Relations
RECREATION AND SPORTS ASSOCIATION LTD

Executive Director
Paul L Manning, BEd Syd, MMgt

Recreation & Facilities Manager
Daniel McGoldrick, DipTeach(PE) BEd MStudEd GDipCom

Facilities Officer
Jodie Douglas, B.App.Sci (Recreation)

Recreation Officer

Health & Fitness Co-ordinator
Nada Pante, BA, DipEd, BSc(HumMov)

Aquatic Centre Managers
Bruce Power, BAppSci (HumMov)
Rob Wilkinson, BSc(HumMov, Nutrition), GDipCom

Financial Manager
Ros Robinson, BCom

STUDENT ACCOMMODATION

CAMPUSS EAST, KOOLOOBONG, GUNDI & GRADUATE HOUSE

Head
Robyn Wilkes, BA NE

Office Manager
Everest Ho, BBA Tunghai, GradDipCom MCom

Accommodation and Conference Manager
Leanne Robinson, BA

INTERNATIONAL HOUSE

Head
Cynthia Halloran, BA Qld, MA ANU

Office Manager
Gary Graham

WEERONA COLLEGE

Head
Phil Dutton, BA Monash, MEd N’dle(UK), MACE, JP

House Manager
Sandra Comerford

Senior Resident
George Michail, BCom GradDip(Mana Sc) Cairo, MSc Ec (Info Sys) LSE, MBCS Ceng UK, LIDPM MORS UK, AIEE USA

WOLLONGONG UNICENTRE LTD

General Manager
Nigel Pennington, BA Qld, AIM, AITEA

Finance & Operations Manager
Peter Bottele, BCom

ILLAWARRA TECHNOLOGY CORPORATION LTD

Managing Director
James W Langridge, BBus UTS DipTertEd, MedAdmin UNE

Company Secretary
Stuart McDonell, BCom UNSW, ASCPA

ADVANCED MANUFACTURING TECHNOLOGIES

Manager
Luke Nadj, BSc UNSW JP FRACI

BUSINESS DEVELOPMENT UNIT

Director, International Business Development
Kaye Cox, BEd, AssDipAdultEd UTS

COMMUNICATIONS DIVISION

Manager
James Gibson, BSc, BE Syd

WOLLONGONG INTERNATIONAL COLLEGE

Director
William McGaw, BA Qld, MA Macq

WOLLONGONG UNIADVICE

Director, External Relations
Eric J Meadows, BA (Hons) Syd

Manager, Admissions
Dr Grahame Morris, BSc N’cle, PhD UNSW

Manager, Marketing & Research
Andra Mednis, BA, MA, MCom UNSW

Manager, Student Recruitment
Peter Day, BA (Hons) Syd RSADipTEFLA

CONSERVATORIUM OF MUSIC

Acting Director
John Wayne Dixon, A.Mus.A. LTCL MA(Hons) W'gong

CME Co-ordinators
Jannette McCarthy, DipMusEd
Janet Andrews, BME (NSW State Conservatorium)

UNIVERSITY POLICY CENTRES

CENTRE FOR INDIGENOUS DEVELOPMENT

Head
Margaret Valadian, BSocStud Qld, MSW SUNY, MEd(Com) Hawaii Hon DrLitt, Macq

Senior Research Fellow
Natascha McNamara AM MBE BBus, DipTeach, FACE

CENTRE FOR RESEARCH POLICY

Director
Associate Professor Tim Turpin, BA (Hons), PhD La T

Senior Research Fellow
Sam Garrett-Jones, BSc, MSc Macq, PhD ANU
Eduardo Pol, Lic Esc UBA, Dr Esc UBA

Research Fellows
Matt Ngui, BA MA W.Aust
Heather Spence, BA (Hons), PhD

Visiting Research Fellow
Wang Shi Bin, BA Beijing Foreign Languages Institute (BFLI)
Wang Chang Rui, BSc Beijing Normal University (BNU)
ACCOMMODATION

The University of Wollongong's Halls of Residence are currently divided into two broad categories - collegiate and non-collegiate. The Collegiate Halls (International House and Weerona) provide catered meals, a cohesive community ethos and have a strong program of pastoral care, including tutorial support. The non-collegiate sector is defined by a more independent residential environment, allowing residents to take on the right amount of involvement for their needs and personalities. Non-collegiate residences at the University of Wollongong vary in style from the more supportive environment of 'unit style' living at the self-catered residences - Kooloobong, Gundi and Graduate House.

Enquiries may be directed to the following:

- Collegiate
  
  International House
  Cynthia Halloran, (02) 4221 5252, Facsimile (02) 4227 6651

  Weerona College
  Philip Dutton, (02) 4221 5240, Facsimile (02) 4229 6136

- Non-collegiate
  
  Campus East, Kooloobong, Gundi, Graduate House
  Robyn Wilkes, (02) 4221 3341

ACCOMMODATION OFFICE

The University has an Accommodation Officer who assists students wanting to find private accommodation. The Accommodation Officer can be contacted by telephoning (02) 4221 3216.

General

Private accommodation is usually available in the suburbs around the campus. With rooms costing approximately $50 per week, apartments from $120 per week, while house and condominium style apartments, which can be shared by several students, range between $170 and $250 per week, depending on size, style and location.

ASSIGNMENTS SUBMITTED BY FACSIMILE

Assignments for undergraduate subjects will not be accepted or marked if submitted by facsimile, except in specific cases when approval has been granted by the relevant academic staff member, and under conditions laid down by the Head of the relevant academic unit. Such conditions might include the charging of a fee on a cost-recovery basis.

CHANGE OF ADDRESS

Students are requested to notify the Vice-Principal (Administration) in writing of any change in their address as soon as possible. Forms for this purpose are available from the Student Enquiries Office, Ground Floor, Administration Building. Failure to do this could lead to important correspondence (e.g. examination results, etc) or course information not reaching the student. The University cannot accept responsibility if official communications fail to reach a student who has not notified the Vice-Principal (Administration) of a change of address.

CHANGE OF NAME BY MARRIAGE OR DEED POLL

All records held and statements issued by the University will be in the name given by a student at the time of admission to the University.

Students who change their name by marriage or by Deed Poll and who also wish to change their name on University records should complete a Change of Name form which is available from the Student Enquiries Office, Ground Floor, Administration Building, and present for notation the original Marriage Certificate or Deed Poll document.

GRADUATION

Graduation Ceremonies are held in May and October each year. Students wishing to graduate are obliged to lodge an application form. Application forms must be collected from the main student enquiries counter, in the Administration Building, before the end of the last session of study and lodged at the same place by the date specified on the form.

Submission of an application to graduate does not ensure that a student will graduate. Graduation is dependent upon completion of all requirements for the degree and confirmation that the student does not have a debt. Students continuing onto an honours year of study will not graduate with the equivalent pass degree.

Students may attend the first ceremony following the completion of their course, have their degree conferred in their absence or defer graduation until a later ceremony. Deferral must be done by a certain date - please check the 'Application to Graduate' form for these dates.

HIGHER EDUCATION CONTRIBUTION SCHEME (HECS)

Students enrolling at the University will be liable under the Higher Education Contribution Scheme (HECS) unless specifically exempted. Summer session enrolment also incurs a HECS liability. HECS is payable each session and the amount of liability is determined by the load (as a proportion of the standard student load for a full year) in which a student enrolls.
Method of Payment
New students will receive a HECS election form at enrolment. This form requires students to nominate whether they wish to pay the HECS liability through the Taxation System when earnings reach the threshold prescribed yearly by the Government or whether they wish to pay the HECS liability to the University up-front and receive a discount of 25%. If a student elects to pay the liability to the University up-front he/she should make payment of the liability by the date prescribed. Please note that students who fail to make up-front payments by the due date will have their enrolment cancelled.

Students who elect to pay HECS up-front may nominate a safety net provision which will permit the University to change the up-front option to deferred if for some reason the student does not make the up-front payment by the due date.

Change of HECS Election
A student’s HECS election remains in force for the duration of his/her course unless he/she wishes to change it by lodging another HECS election form. However, students exempt from HECS (refer below) must lodge an election form for each academic year with appropriate evidence of exemption by 31 March.

Tax File Numbers
Students electing the deferred option or safety net for HECS must provide their Tax File Number (TFN). Students who do not have a TFN, or do not know their TFN, need to contact their nearest Australian Taxation Office. Students who do not provide their TFN prior to the census date will have their enrolment cancelled.

Notice of Liability
Students will receive notice of their estimated liability under HECS with the enrolment record notice at the beginning of each session. A statement of the session’s final HECS liability as at census date is sent to each student’s mailing address after the census date. (Students must keep this as a permanent record of their liability each session.)

Amendments to Enrolment
When a student amends his/her enrolment (e.g. by withdrawing from or adding one or more subjects), an amended liability statement will be given. No liability under HECS will be incurred if a student withdraws from one or more subjects prior to the appropriate census date.

Exemptions
Higher education students will incur the HECS with the exception of the following, who are exempt:

- fee paying students enrolled in postgraduate courses for which fees are charged in accordance with Commonwealth guidelines;
- students enrolled in non-award courses;
- students in recognised bridging and supplementary courses;
- overseas students who are already paying the Overseas Student Charge, full fees or who are assisted under foreign aid or Australian aid programs;
- students undertaking industrial experience as part of a course will not be liable for that proportion of their course spent in industry;
- students who receive an APA without stipend, which includes a special allocation of APA without stipend for the professional development of teachers, and
- students enrolled in a course which is fully funded by an employer.

Students who fall in the above categories will have no liability under HECS.

Citizenship Charges
From the beginning of 1996 Australian permanent residents who have not become citizens within one year of meeting residency requirements for citizenship, and New Zealand citizens, will need to pay their Higher Education Contributions up front, without a discount. This will mean that at enrolment:

- Australian citizens will need to verify their citizenship status by producing their Australian birth certificate or their citizenship certificate (or certified copies);
- Permanent residents will need to verify their permanent residency status to show that they are eligible for HECS. To establish their eligibility for deferred HECS they will need to supply their passport (or certified copy) showing dates of permanent residence in Australia.

- New Zealand citizens will need to verify their New Zealand citizenship status to show they are eligible for up front HECS. New Zealanders (who do not also hold Australian citizenship) are not eligible to defer their HECS irrespective of the duration of their residence in Australia.

For further HECS information please refer to the ‘HECS-Your Questions Answered 1998’ booklet available from the Academic Registrar’s Division or phone Liz Cuthbert on (02) 4221 4601

INTERNATIONAL EXCHANGE PROGRAM
The International Exchange Program offers Wollongong students the opportunity to study for one or two sessions at a university in another country and count the study towards their University of Wollongong degree. Current programs include universities in the USA, UK, France, Italy, Sweden, Japan, Thailand and Indonesia. Scholarships are available. Contact the Study Abroad Office Telephone (02) 4221 3170 or email: studyabroad@uow.edu.au

INTERNATIONAL STUDENTS
Enrolment for International Students
Application procedures
Prospective students should address all enquiries and completed application forms to: The Manager, International Office, University of Wollongong, Northfields Avenue, Wollongong NSW 2522, Australia
Telephone: + 61 242 213218; Fax: + 61 242 213233;
e-mail: International Office@uow.edu.au

International students must enrol in a full-time program of study.

English Language Requirements
All applicants must provide evidence of English language proficiency prior to enrolment. The University’s minimum English language requirement for most courses is:

<table>
<thead>
<tr>
<th>TEST OF ENGLISH PROFICIENCY</th>
<th>MINIMUM REQUIREMENTS *</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS</td>
<td>Overall score of 6.0</td>
</tr>
<tr>
<td></td>
<td>6.0 in reading and writing</td>
</tr>
<tr>
<td></td>
<td>5.0 in listening and speaking</td>
</tr>
<tr>
<td>TOEFL</td>
<td>550</td>
</tr>
<tr>
<td>NSW HSC ENGLISH</td>
<td>2 Unit Contemporary English (60/100)</td>
</tr>
<tr>
<td></td>
<td>2 Unit General (63/100)</td>
</tr>
<tr>
<td></td>
<td>2 Unit (50/100)</td>
</tr>
<tr>
<td></td>
<td>3 Unit</td>
</tr>
<tr>
<td>WOLLONGONG INTERNATIONAL COLLEGE PRE-COURSE EXIT TEST (For WELC ELICOS students only)</td>
<td>Pre-Course Exit Test A or B</td>
</tr>
</tbody>
</table>

* The following linguistically demanding courses have higher English language requirements:

Law
- IELTS overall band 7.0; minimum of 6.0 in reading, writing, listening and speaking.
- TOEFL 600.
- Wollongong International College Pre-course Exit Test A

Clinical Psychology and undergraduate Education (also Master of Business Administration from Spring Session 1998):
- IELTS overall band of 6.5; minimum of 6.0 in reading, writing, listening and speaking.
- TOEFL 575.
• Wollongong International College Pre-course Exit Test A.

Nursing:
• As for Clinical Psychology except Wollongong International College Pre-course Exit Test is B.

Postgraduate Education:
• IELTS overall band of 7.0; minimum of 6.5 in reading, writing, listening and speaking.
• TOEFL 600.
• Wollongong International College Pre-course Exit Test A.

Results attained in the above English tests will remain valid for two years from the date of testing. If a student is unable to provide proof of English proficiency at the time of application, one of the above tests will need to be undertaken.

NB: The requirement may be waived for applicants who meet all of the following criteria:
- completion of a degree, or equivalent qualification, from an approved institution located in a country where the official language is English, and
- where the language of instruction was English, and
- the qualification was attained within two years of applying to the University of Wollongong.

The University reserves the right to increase the standards as set out above in individual cases.

The University of Wollongong offers 'English Language Intensive Courses for Overseas Students' through the Wollongong International College on campus. These courses provide the opportunity to acquire a sound knowledge of English for a variety of purposes, including academic English for entry to university.

International Student Adviser
Support and assistance is available to help international students with difficulties they might face in adapting to life in a foreign culture. If students are having difficulties it is important that they seek advice. The International Student Advisers can provide advice on a wide range of issues including personal problems, academic concerns, immigration, legal matters, accidents, family worries or emergencies. The office also coordinates the International Friendship Program to facilitate links between students and the local community.

Charges Relating to International Students
When accepting an offer of admission, all new international students must pay the normal sessional fee. If students undertake subjects/credit points in addition to the normal full time load they are required to pay extra fees. Re-enrolling students can pay reduced fees when undertaking subjects/credit points less than the normal full time load; any overpayments will be credited to the next session. This does not apply to AusAID, IDP, Study Abroad, Exchange students and some Australian and overseas scholarship schemes.

The schedule of fees for international students undertaking a normal full time load is available from the International Office.

The operative dates for calculation of the number of credit points in which international students are enrolled will be 31 March for Autumn Session and 31 August for Spring Session each year. Students who withdraw from subjects after these dates will still be liable for the fees for those subjects. These dates are known as the International Student Audit Dates.

International Students Late Charge
A late fee of $450 applies to International students who have not paid their tuition fee in full prior to the commencement of session.

Note: International students should also refer to the Student Charges section of this calendar for information on the University's fee policy and refund policy.

LOST PROPERTY
Enquiries concerning lost property should be made to the Security Office, UniCentre Building.

NOTICES
Official University notices are displayed on the notice boards and students are expected to be acquainted with the contents of those announcements which concern them.

OWNERSHIP OF STUDENTS' WORK
The University reserves the right to retain at its own discretion the original or one copy of any drawings, models, designs, plans and specifications, essays, theses or other work executed by students as part of their courses, or submitted for any award or competition conducted by the University.

PARKING
Approximately 2,200 parking spaces are available on campus. These spaces are categorised into Red and Blue areas. With the Red areas closest to campus facilities.

Red parking permits cost $130.00 pa and Blue permits cost $75.00 pa. Half year permits are also available on application at the University Cashier. Purchase of a parking permit allows access to the campus by car/vehicle but does not guarantee an on-campus parking space. A dedicated reserved parking space is available in the Multistorey car park at a premium price of $400 pa. A parking permit costing $20.00 pa gives access to the motorcycle parking areas on campus. Parking Permits for permanently disabled drivers cost $50.00 pa.

STUDENT IDENTIFICATION CARDS
All students are issued with an Identification Card at the beginning of their first year of enrolment, after payment of compulsory charges. This card must be carried during attendance at the University and shown on request.

The number appearing on the front of the card is the student registration number used in the University's records. This number should be quoted in all correspondence.

The card must be presented when varying enrolment, when attending examinations and collecting examination results, when requesting an enrolment record, when applying for travel concessions, when notifying a change of address and when requested, for any appropriate reason, by a member of University staff.

Students who lose their Identification Card must notify the Vice-Principal (Administration) as soon as possible. A charge of $10 is charged for a replacement card. Proof of identification must also be produced.

All students will be issued with an Identification Card as soon as possible after enrolment. In the meantime, the receipt form issued at the time of enrolment should be carried during attendance at the University and shown on request.

STUDENT TRAVEL CONCESSION PASSES
Train
Identification cards issued by the Railways of Australia are available to eligible full-time students to enable them to travel at concession rates on railways within Australia. Application forms are available from the Student Enquiries Office, Ground Floor, Administration Building. A passport sized photo is required.
Aircraft
Concession fares for overseas, inter-state and intra-state are available under the conditions ruling for various operating companies. Appropriate travel cards are available from travel agents.

Bus
Applications for private bus concessions are available at the Student Enquiries Office, Ground Floor, Administration Building.

TRANSPORT TO THE WOLLONGONG CAMPUS

University shuttle bus services link Campus East, International House and Weerona campus with the main University campus.

Wollongong bus operators provide services to the University from all areas of Wollongong (north to Austinmer and south to Shellharbour). The University is located within 15 minutes walking distance from North Wollongong Railway Station and bus operators also service this connection.

Bus services also run from the Bargo, Picton area and the Campbelltown district. Timetables are available from the University or the bus operators.

The University is located 5 kilometres from the Wollongong city centre with easy access from the major road systems.
The University Library provides students and staff with a range of information resources in a variety of formats. Students studying in different degree programs have varying borrowing privileges which are clearly set out in brochures available from the Library.

Many information resources, including the Library Catalogue, can now be accessed via the Library's home page from the Web site http://www-library.uow.edu.au

All these resources are available from computer labs around campus and a number of them are available from your home computer if you are connected to the Internet.

Workshop programs, organised by Library staff, are designed to help you learn to use the Library and information resources. To find out more about these programs, ask at the Information Desk for the current program.

Opening Hours During Session:
Monday - Friday 8.30am - 10pm
Saturday 9am - 5pm
Sunday 1pm - 5pm
Opening hours varying during Summer session, session breaks and public holidays.

For further information contact the Information Desk (02) 4221 4548

The SRC is made up of 11 general representatives and 10 office bearers. Office bearers include the President, Vice President, Honorary Secretary, Treasurer, Education Officer, Activities Officer, Media Officer (also the editor of the Tertangala), Welfare Officer, Women's Officer and Environment Officer.

The SRC is the legitimate student voice on campus, and represents the interests of students both within the University itself, and within the broader community.

The purpose of the organisation is to complement the scholarly activities of the University by providing relevant products, services and facilities that meet the diverse social and cultural needs of the University population and which develop a sense of community.

The following services are housed in the main UniCentre building (map reference Bid 11):

Food and Beverage: University Centre Food Hall
Bistro Gallery
UniBar and Coffee Lounge
The Glass House - Coffee Lounge
Duck Inn - Burger Bar
Lounge Bar
University Club Lounge

Financial: University Centre Retail and Bookshop (Telephone: 218050)
National Australia Bank (Telephone: 261927)
Illawarra Mutual Building Society (Telephone: 214733)

General: Conference and Function Centre (Telephone: 218093)
The Glass House - General Purpose Hall
Meeting and Conference Rooms

Hair Care: The Cutting Crew (Telephone: 213111)

Medical Centre: General practitioners, dentist and optometrist (Telephone: 262199)

Travel: STA Travel Service (Telephone: 260277)

All enquiries to the Recreation Centre, G13. Open 7 days, telephone (02) 4221 4700 or ext 3361/3362, or 4700.

The SRC provides a number of services for students, including:
• producing a student newspaper, the Tertangala, to which any student can contribute articles, poems, reviews etc.
• a second hand book bank - where students can buy and sell old text books
• co-funds the Clubs and Societies Office, the Postgraduate Association, Uni Careers Service and Kids Uni
• cheap photocopying, faxing and binding
• computers and printers for student use
• an emergency student loan service (limited to $25)
• free tea coffee and hot chocolate in the SRC office
• runs various campaigns in conjunction with the National Union of Students around issues such as sexual harrassment, Austudy, student accommodation etc., as well as keeping students up to date on changes to the Federal Government's Higher Education policies and budgets.

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WOLLONGONG UNICENTRE

All students pay a compulsory fee to the UniCentre unless they are Life Members of the UniCentre (6 years as financial members) or staff of the University. This fee entitles membership of the Wollongong UniCentre Ltd. which is an incorporated, non-profit organisation. Liability of any member in the event of insolvency is limited to one dollar ($1.00). A full list of the services is provided below and membership provides automatic access to these services and to relevant discounts.

Application to join the Wollongong UniCentre must be made on the enrolment form. A copy of the corporate constitution, which governs the activities of Wollongong UniCentre and its members is provided in appendix 1 at the back of this calendar.

The purpose of the organisation is to complement the scholarly activities of the University by providing relevant products, services and facilities that meet the diverse social and cultural needs of the University population and which develop a sense of community.

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The Glass House - GeneralPurpose Hall
Meeting and Conference Rooms

Hair Care:
The Cutting Crew (Telephone: 213111)

Medical Centre:
General practitioners, dentist and optometrist (Telephone: 262199)

Travel:
STA Travel Service (Telephone: 260277)
Student Welfare:
- SRC Offices (Telephone: 214202)
- Student Services
- Counselling (Telephone: 213446)
- Careers Advice (Telephone: 213324)
- Accommodation Office
- Women's Room
- Chaplaincy
- University Security (Telephone: 214565)

Keira View Cafe and ‘Food for Thought’ restaurant are located in the McKinnon building. In 1996 a new food outlet will be opened in the Library Link building.

The UniCentre is also responsible for supporting the Muslim Association prayer space, located at building 50.

Clubs and Societies
There are over 50 campus clubs and societies, ranging from religious and cultural groups to faculty and recreational groups.

Campus clubs and societies affiliate with one body, the Clubs and Societies Support Office. This organisation is jointly supported by the UniCentre and the S.R.C. Support is offered to clubs via the UniCentre's Clubs and Societies Officer whose office is situated on the ground floor, UniCentre Arcade.

Entertainment Program
The UniCentre runs a comprehensive activities and entertainment program including live music, art, weekly movies and more. For details phone 218000.

UniCentre Childcare
The childcare centres on campus offer childcare facilities to both students and staff by qualified Early Childhood staff. The centre is open from 8.00 am to 6.00 pm Monday to Friday. Kids' Uni cares for up to 98 children in the 0-5 year old age group. We also have an After School and Vacation care service for 30 children (5-12 years).

We also offer a Family Day Care service which provides supervised care for children in the homes of authorised, carefully selected care providers. A co-ordinator services the scheme and regularly visits the homes of caregivers with advice, education and equipment suitable for children's ages and stages. It also provides emergency care and after school care.

A limited number of places are available and early application is essential. Permanent bookings must be made for session, school terms, or all year round. Phone 218035 for information.

Application forms and information can be obtained from the centre or by contacting the Co-ordinator on 218035.

SUPPORT SERVICES

ABORIGINAL EDUCATION CENTRE

The Aboriginal Education Centre (AEC) provides for equity of access, participation and outcome for Aboriginal and Torres Strait Islander people.

As well as HSC and Mature-age entry, the University has a policy which supports enrolment of Aboriginal and Torres Strait Islander students who may not have had an opportunity to complete final schooling. Each year the AEC runs an Alternative Admissions and Orientation Program.

For further details contact the Centre on (02) 4221 3776

CASUAL EMPLOYMENT OFFICE

The Casual Employment office is located on the ground floor of the UniCentre Building (Building 11). The office endeavours to find casual and part-time employment opportunities for students. For more information contact the Casual Employment Officer on (02) 4221 3216

ALUMNI ASSOCIATION

The Alumni Association helps graduates, diplomats and former staff of the University to remain in contact with the University and with each other. Members receive the University’s alumni magazine, the Outlook, twice a year and are invited to reunions and other functions. Several chapter groups, eg Engineering, Commerce, Education, Science, Shoalhaven and the Campus Chapter, as well as some located overseas, organise social and other activities.

Associate Membership of the Alumni Association is open to current students and staff (at a subscription rate of $25 per annum or $95 for five years) who are then able to benefit from a range of special rates available to alumni. The Association is also a great way for students to meet Wollongong graduates and develop their professional networks. For further information contact the Alumni Office on (02) 4221 3169 or (02) 4221 3249. The office is located within the International Office in the Administration Building.

FRIENDS CHAPTER OF THE UNIVERSITY OF WOLLONGONG FOUNDATION LIMITED

This association involves members of the community and the University who are willing to help achieve its mission to create and enhance understanding, pride, enthusiasm and support for the role and achievements of the University. In turn, members are kept informed of the University's plans and achievements and invited to contribute to them. The Friends conduct and support a range of activities through the year to enhance the relationship between the University and its community.

For further information contact the Executive Officer on (02) 4221 3073.

ARMY RESERVE UNIT

The University of Wollongong Company of the University of New South Wales Regiment (UNSWR) is an Army Reserve Unit whose role is the production of Officers for the reserve. Enlistment is voluntary, and is open to male or female students. Enlistment criteria is that students must hold a HSC or equivalent with a high standard pass in English. All potential recruits must also be Australian citizens.

Further enquiries should be made to the University of Wollongong Company, UNSWR, Gipps Street, Gwynville 2500. Telephone (02) 4229 6308 or (02) 4227 6151 during business hours or Wednesday evenings from 7.00 pm to 9.00 pm.

CHAPLAINCY SERVICE

A Chaplaincy Service is provided within the University for the benefit of students and staff. The Service offers fellowships, personal counselling and guidance, and leadership in biblical and doctrinal studies and in worship. Visiting Chaplains from the following religions maintain close liaison with student religious societies:

- Anglican: Rev. Stephen Edwards
- Baptist: To be Advised
- Catholic: Fr Greg Horneman & Fr Robert Donnelly
- Congregational: Rev. John O'Keefe
- Greek Orthodox: Father Sam Drapaniotis
- The Church of Jesus Christ of Latter-day Saints: Mr Ron R Wrigglesworth
- Jewish: Dr H Immelman
- Lighthouse Christian Centre (Christian Revival Crusade): Pastor John Kohler
- Presbyterian: Rev Dr Di Ferrington
- Seventh Day Adventist: Mr Janusz Jagiello
- Uniting: Mr David Moorhouse

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  - Presbyterian: Rev Dr Di Ferrington
  - Seventh Day Adventist: Mr Janusz Jagiello
  - Uniting: Mr David Moorhouse

The Casual Employment office is located on the ground floor of the UniCentre Building (Building 11). The office endeavours to find casual and part-time employment opportunities for students. For more information contact the Casual Employment Officer on (02) 4221 3216.
Contact details for the visiting Chaplains may be obtained from the Chaplain’s office or by phoning (02) 4221 3534. The office is located on the first floor of the UniCentre Building near the Counselling Centre.

**DISABILITY SERVICES**

The Disability Liaison Officer can provide information on resources available at the university for assisting students with disability and can provide advice on how particular disabilities affect university study. Various services are available for students with disabilities, these include: specialised equipment, note takers, a volunteer reader program and peer support networks.

If you have a disability and need assistance during your studies, please contact the Disability Liaison Officer by phoning: (02) 4221 4942 or fax: (02) 4221 4767.

STANDARDS is a group for students with disability. The group can provide support, information and advocacy. As the name suggests, the group is directed at setting standards both individually and throughout the campus community in relation to disability and quality of life. For information about the group contact the Disability Liaison Officer on (02) 4221 4942.

**STUDENT SERVICES**

Student Services aims to facilitate student development, academic progress and promote equity and cross cultural interaction for students through the provision of services and programs which enhance learning development; career development; personal and social development. The Service is staffed by learning development lecturers, careers counsellors and personal counsellors. Student Services is located on the third floor of the UniCentre building above the bookshop.

**Careers Service**

Careers advice and counselling is available for individuals and groups. The Careers library contains a wide range of print and electronic based resources. Job seeking via the Internet and job applications can be prepared using computers within the careers library.

**Employer Campus Interviews**

Employers visit the campus in April/May to interview final year students for employment in the following year. Final year students need to familiarise themselves with this program and to read the notice boards outside the Careers Office. Information is also placed on the Careers Service Internet home page. A mail out of information goes to all final year students at the start of each year.

**Job Preparation (Interviews/Resumes)**

Workshops are conducted throughout the year to assist students with their search for graduate employment.

Career counselling is provided through an appointment system. For enquiries telephone (02) 4221 3324 or (02) 4221 3325; facsimile (02) 4226 2399, http://www.edu.au/student_srvs/careers.html

**Learning Development**

Learning Development offers an extensive range of workshops to all enrolled students who wish to improve their academic skills and English language. Workshops on academic skills include: Essay Writing, Study Skills, Presentation Skills, Reading and Note-Making, Structuring Arguments and Critical Thinking, Lectures and Note-Taking, Report Writing, Exam Preparation, Exam Techniques

English language workshops include: Intensive Grammar, Listening in Lectures, Speaking and Listening, Pronunciation, Reading Skills, Academic English, Editing Your Work

Learning Development also offers free self-access packages on most of the topics dealt with in workshops. These resources are available in the Learning Resource Centre, located on the ground floor of Building 19. Individual consultations for assistance with developing academic skills are also available. Students can register for workshops or make an appointment for a consultation with a Learning Development lecturer by telephoning (02) 4221 3977.

**Counselling Service**

The University Counsellors offer free and confidential counselling to students or staff who want to talk through and change areas of difficulty, conflict or crisis in their lives.

University Counsellors can assist with a wide range of personal difficulties including feeling stressed, anxious or depressed; wanting to become more confident and assertive; experiencing family and relationship conflicts; coping with grief and bereavement; and dealing with emotional stresses associated with balancing work, family life and university studies.

The Counselling Service also provides personal development programs such as stress management, assertiveness and communications skills.

To make an appointment to see one of the counsellors or enrol in a program, phone (02) 4221 3445, or call in at the office located on the third floor of the UniCentre building. The service is free and completely confidential.

**Student Equity**

Student Services is responsible for student equity on campus and seeks to facilitate access to the University for students who are traditionally under-represented in higher education. The Service aims to promote inclusion and appropriate support for students in an environment of equal opportunity and access.

Programs are provided in areas such as Women Postgraduate (Research) Students; STANDARDS—a network for students with disability; Rural and Isolated Students; Women in Engineering Network and Women in Honours. For further information regarding equity programs phone (02) 4221 3977.
VARIATION OF ENROLMENTS

Students wishing to vary their enrolments must apply at the Student Enquiries Office. Consultation with the Head of the appropriate Department/School is also required.

Where a variation involving enrolment in a new subject is submitted after the second week of Autumn session (in the case of Autumn session and annual subjects) or after the second week of Spring session (in the case of Spring session subjects) the approval must be obtained from the Head of the Department/School offering the new subject.

To avoid having withdrawn subjects shown on their academic records students intending to withdraw from Autumn and Spring single session subjects should do so no later than the eighth week from the beginning of the appropriate session, while students intending to withdraw from double session subjects should do so no later than the first week of Spring session.

NON-AWARD SUBJECT ENROLMENTS

A person wishing to enrol in non-award postgraduate subjects (i.e. subjects not to be counted towards a degree or diploma) may be considered provided the Head of the appropriate Department/School considers it will be of benefit to the student and there are facilities available.

To be eligible to enrol as non-award students in postgraduate subjects, applicants must meet the entrance requirements for the degrees or diplomas from which the subjects are selected. Applications for non-award subject enrolments are not considered until the enrolments in the relevant postgraduate courses have been finalised.

Application forms can be obtained by written application to the Vice-Principal (Administration) or from the Student Enquiries Office, Ground Floor, Administration Building. Application forms should be received by the Vice-Principal (Administration) by 31 January in the year in which enrolment is desired.

OFF CAMPUS DELIVERY (OCD)

The University of Wollongong offers postgraduate education to professionals throughout Australia and internationally. Using flexible learning materials for delivery, it is designed for those who, due to restrictions of time or location, find it difficult to undertake postgraduate courses on campus.

These specialised postgraduate courses have been designed to meet the needs of professionals and graduates wishing to update their education and training. It is intended that the courses will assist graduates and those presently in professional roles to improve their prospects and opportunities while updating skills, gaining new knowledge and maintaining professional qualifications.

Courses are available via:

- Packaged resource materials supported "on line" by specialist academic coordinators. Resource materials usually comprise a video component with on line support provided by fax, phone, email and video conference;
- On-site courses at the University Centre in Clarence Street Sydney;
- WOL (Wollongong On Line) via distance education;
- Internationally, through a combination of distance materials and direct academic support;
- Tailored programs delivered on-site to institutions, government agencies and companies. Programs of this nature are tailored for specific needs, providing an appropriate mix of professional courses and award courses, and a mix of on-campus or off-campus workshops.

All the programs offered are accredited and lead directly to, or articulate with, a recognised postgraduate award. Entrants to the courses normally hold a Bachelor degree together with relevant work experience. In special circumstances an applicant holding other acceptable academic or professional qualifications and relevant work experience may be admitted.

Full fees are charged for most courses offered through off-campus delivery.

The following courses are currently on offer through WOL via distance education:

ARTS
- Master of Journalism
- Graduate Diploma in Arts (Journalism)
- Master of Arts (Maritime Policy)

COMMERCE
- Graduate Diploma in Commerce (Management)
- Graduate Certificate in Management
- Graduate Diploma in Total Quality Management
- Graduate Certificate in Total Quality Management

EDUCATION
- Master of Education (Literacy)
Graduate Certificate in Language Education (Literacy)
Master of Education (TESOL)
Graduate Diploma in TESOL
Graduate Certificate in TESOL
Graduate Certificate in Adult Career Development
Frameworks (Professional Development Course)

ENGINEERING
Professional Studies in Materials Welding and Joining

HEALTH & BEHAVIOURAL SCIENCES
Master of Public Health
Graduate Diploma in Public Health
Graduate Certificate in Public Health Research Methods
Master of Science (Health Policy & Management)
Graduate Certificate in Health Policy & Management
Master of Science (Mental Health)
Graduate Diploma in Science (Mental Health)
Graduate Certificate in Mental Health
Graduate Certificate in Cognitive Neuroscience

For further course details and information, please contact:

University of Wollongong
UniAdvice
Northfields Avenue
WOLLONGONG NSW 2522

Telephone: (02) 4221 4575
Facsimile: (02) 4221 5934
STUDENT CHARGES

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

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

COMPULSORY SERVICE FEES

In 1998 all registered students will be required to pay the following charges. For some full fee paying students these charges are included in the course fee:

Entrance Charges at First Enrolment:
- Wollongong UniCentre $35
- Recreation & Sports Association $25
- Students' Representative Council $6

Annual Subscriptions:
- Wollongong UniCentre $174
- Recreation & Sports Association $87
- Students' Representative Council $39

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

i. Exemption from payment of fees for the Wollongong UniCentre will be granted to life members of the UniCentre and to permanent full-time and limited term staff of the University.

ii. Exemption from payment of fees for the Recreation and Sports Association will be granted to life members of the Recreation and Sports Association and to permanent, full-time and limited term staff of the University.

iii. Students who have paid fees for six or more years are eligible to apply for life membership of the UniCentre and/or the Recreation and Sports Association.

OTHER CHARGES

Reinstatement charge (following termination of enrolment) $100
Application fee to amend academic record (where the error is the student) $80
Replacement of student identification card $10
Replacement Testamur $30
Parking Charges (per annum):
- Guaranteed Places $400
- Category 1 Places (red zone) $130
- Category 2 Places (blue zone) $75
- Motorcycle parking $20
- Disabled parking $50

NEW STUDENTS

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

LATE RE-ENROLMENT CHARGE

Failure to re-enrol by the prescribed date $100

LATE CHARGES FOR RE-ENROLLING STUDENTS

Where charges have not been paid prior to the commencement of the relevant session, the following additional charges will apply:

Charges paid during the first two weeks of session $50
Charges paid subsequent to the second week of session $80

Note: Payment of charges subsequent to the second week of the relevant session will only be accepted with the express approval of the Vice-Principal (Administration) or the Academic Registrar.

WITHDRAWAL

1. Students withdrawing from a course are required to notify the Vice-Principal (Administration) in writing.
2. Where notice of withdrawal from a course is received by the Vice-Principal (Administration) before the first day of Autumn session a refund of all charges paid will be made.
3. On notice of withdrawal, on or after the first day of autumn session and prior to the end of the fourth week of Autumn session, a full refund of student activities charges, other than entrance charges, will be made but thereafter no refund will be made, except as provided for in Section 4 below. Student activities charges are listed on the previous page.
4. If a student's initial enrolment in any year is made at the commencement of Spring session for Spring session only and the student gives notice of withdrawal prior to the end of the fourth week of Spring session, a full refund of student activities charges, other than entrance charges, will be made but thereafter no refund will be made.
5. Late charges are not refundable.
6. Payments towards the Higher Education Contribution Scheme (HECS) will only be refunded where a student withdraws prior to the appropriate census date.

7. International students are bound by the terms of the University policy on fee refunds for International Students (see below).

**EXTENSION OF TIME**

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

**FAILURE TO PAY CHARGES**

Any student who is indebted to the University and fails to make a satisfactory settlement of his/her indebtedness upon receipt of due notice ceases to be entitled to membership and privileges of the University. Such a student is not permitted to register for a further session, to attend classes or examinations, or to be granted any official credentials.

Indebtedness to the University includes the non-payment of charges, late charges, library fines, any arrears in rent or other financial obligations resulting from an accommodation agreement entered into with the University, and any indebtedness incurred as a result of any other financial obligation to the University.

In very special cases the Vice-Principal (Administration) may grant exemption from the disqualification referred to above upon receipt of a written statement setting out all relevant circumstances.

**PAYMENT OF CHARGES**

Refer to the inside front cover of this calendar.

**POLICY ON REFUND OF FEES FOR INTERNATIONAL STUDENTS**

This policy applies to both commencing and re-enrolling students. All requests for a refund must be submitted on the appropriate application form to the International Office and must be accompanied by official documentary evidence of the grounds for the request. Refunds will only be paid to the applicant and will only be made in the student's home country by Australian Dollar draft.

1. Total Refund

A total refund will only be granted under the following circumstances:

1.1 An offer of a place is withdrawn by the University of Wollongong. (Unless the offer was made on the basis of incorrect or incomplete information being supplied by the applicant, In which case, 90% of the fee for one semester will be refunded).

1.2 The University of Wollongong is unable to provide the course for which an offer has been made.

1.3 The student is not permitted to enrol or re-enrol at the University of Wollongong, because of failure to meet the degree/diploma regulations or failure to meet the terms of a conditional offer.

1.4 The applicant is unable to obtain a visa from the Australian Diplomatic Post.

Applications for a total refund under the above grounds (with the exception of 1.4) must be lodged prior to the commencement of the session for which the offer is made.

2. Partial Refund

2.1 Grounds

A partial refund of tuition fees will only be granted under the following circumstances:

2.1.1 The student is unable to commence or continue to study due to death or illness.

2.1.2 The Vice-Principal of the University, or delegated person, after consideration of the application and documentation determines that exceptional circumstances apply.

22 Refund Amount

22.1 If a request for a refund is given to the University at least four weeks before the commencement of Autumn or Spring Session or two or more weeks before the commencement of Summer Session and the reason for the refund is one of those listed above, or has been given special consideration, then the student will receive a refund of fees paid for that session, minus a 10% administrative charge.

22.2 If a request for a refund is given to the University less than four weeks before the commencement of Autumn or Spring Session or less than two teaching weeks before the commencement of Summer Session and the reason for the refund is one of those listed above, or has been given special consideration, then the student will receive a refund of fees paid for that session, minus 50% (including a 10% administrative charge).

22.3 If a request for a refund is given to the University within the first four teaching weeks of Autumn or Spring Session or within the first two teaching weeks after the commencement of Summer Session and the reason for the refund is one of those listed above, or has been given special consideration, then the student will receive a refund of fees paid for that session, minus 50% (including a 10% administrative charge).

22.4 If a student withdraws from the course for whatever reason after the fourth teaching week in the Autumn or Spring Session course, or after the second teaching week of the Summer Session course the student will not be eligible for a refund of any of the course fee.

3. Permanent Resident Status

A total refund of fees will be payable if the student has:

3.1 obtained permanent resident status by the international students' audit date for that session and a written request for change of status is received at the International Office by that date, and

3.2 satisfied Section 41 of the Higher Education Funding Act 1988, that is, has completed a HECS Payment options Form by the Audit date.

Permanent resident status is recognised from the date stamped on the student's passport.
POSTGRADUATE SCHOLARSHIPS

AUSTRALIAN POSTGRADUATE AWARDS (APA)

A number (30 in 1997) of Australian Government Postgraduate Awards (APA with Stipend) are available to students undertaking full-time postgraduate research at the University, leading to the degree of PhD or Honours Masters. The thesis component should be at least two thirds of the degree.

Australian citizens or permanent residents of Australia are eligible for the awards.

Competition is strong. Honours 1 or equivalent results are at present essential for receipt of an offer of an APA with Stipend.

An APA with Stipend may be held for three years for PhD studies and two years for Honours Masters studies subject to satisfactory annual progress reports being submitted by the scholar. The institution may terminate the awards of students who fail to maintain satisfactory progress. An extension of up to 6 months may be granted to PhD candidates where a formal application is made and the institution is satisfied that the grounds for extension are beyond the control of the candidate and are related to their studies.

The stipend for research awards in 1997 was $15,637 per annum - non taxable. There is also provision for a relocation allowance and thesis allowance. Stipends and allowances are indexed.

The closing date for applications is 31 October.

UNIVERSITY POSTGRADUATE AWARDS (UPA)

Each year the University provides a number (20 in 1997) of University Postgraduate Awards (UPA) to students undertaking full-time postgraduate research at the University, leading to the degree of PhD or Honours Master. The thesis component should be at least two thirds of the degree.

These awards are available to citizens of all nationalities who are graduates of Australian or overseas universities.

Applicants should hold, or expect to obtain, at least an upper division second class honours degree or its equivalent but over the last two years only students with Honours 1 or equivalent have been offered the awards due to the highly competitive nature of the scholarship.

A UPA may be held for three years for PhD studies and two years for Honours Masters studies subject to annual progress reports being submitted by the scholar. The institution may terminate the awards of students who fail to maintain satisfactory progress. An extension of up to 6 months may be granted to PhD candidates where a formal application is made and the institution is satisfied that the grounds for extension are beyond the control of the candidate and are related to their studies.

Stipends and allowances are as for the APA with Stipend.

The closing date for applications is 31 October.

OVERSEAS POSTGRADUATE RESEARCH AWARDS (OPRS)

The Overseas Postgraduate Research Scholarships (OPRS) are scholarships funded by the Australian Government which are awarded in any area of study offered at the University of Wollongong (14 in 1997). These scholarships are available to citizens or residents of all countries except Australia and New Zealand. These awards cover the full tuition fee for two years for Honours Masters and/or three years for Doctorate students undertaking full-time postgraduate research at the University. The thesis component should be at least two thirds of the degree.

No other allowances are payable under these awards.

The closing date for applications is 31 October.

APPLICATIONS AND ENQUIRIES

Application forms for postgraduate research awards are available from the University and must be lodged with enrolment application forms by 31 October.

Further enquiries may be directed to the Office of Research, University of Wollongong, First Floor, Communications Building (telephone (02) 4221 4323).

CONDITIONS OF AUSTRALIAN AND UNIVERSITY POSTGRADUATE AWARDS

University Postgraduate Awards are tenable only at the University of Wollongong for full-time study. Australian Postgraduate Awards are transferable to other institutions provided that at least six months of the program has been completed at the awarding institution.

Duration of Award

The maximum period for which an award may be held, subject to satisfactory progress and submission of annual progress report, is as follows:

a) a candidate for an Honours Masters degree by research may hold an award for a period not in excess of two years from the commencement of studies or until the date of submission of the thesis, whichever is earlier;

b) a PhD degree candidate may hold an award for three years from commencement of studies or until the date of submission of the thesis, whichever is earlier. An extension of up to 6 months may be granted to PhD candidates where the award holder formally applies for an extension and the University is satisfied that the grounds for extension are beyond the control of the candidate and are related to his or her studies rather than of a personal nature.

Renewal

Awards are renewable annually on submission of a satisfactory progress report.

Progress Report

Scholars are required to submit a progress report before the end of each calendar year. A form on which the report is to be made is provided to students in September each year.

Recreation Leave

Students are entitled to 20 days paid recreation leave a year calculated on a pro-rata basis. No more than 20 days recreation leave may be accumulated and leave must be taken during the tenure of the award. The supervisor's agreement must be obtained before leave is taken.

Interruption

If students are unable to pursue their degree they must notify the University which may arrange to have the award suspended. Students may apply for up to 12 months suspension during the tenure of the award. If the circumstances are beyond their control this may be extended to 2 years. In exceptional circumstances only, students may apply for 12 months suspension to gain work experience in industry in an area directly relevant to their research.

Restoration

Before an award may be restored after a period of interruption the scholar will be required to show that he or she is in a position to resume full-time study. Where the interruption was due to illness a medical certificate must be produced. In all cases the student must satisfy the Pro Vice Chancellor (Research) that he or she is able to resume full-time study.
Overseas Study

Where a scholar is required to pursue studies abroad for a limited period in order to advance a research program, he/she may apply for permission to hold the award while overseas. The following requirements must generally be met:

a) the period abroad will not exceed twelve months;
b) adequate supervision of the scholar's research program abroad has been arranged by the University before departure;
c) the scholar will remain enrolled at the University;
d) the scholar will return to Australia to complete research program immediately following the completion of study abroad; and
e) the period of overseas study will be credited towards the scholar's degree or research program at the University.

A scholar may apply for permission to hold a University Postgraduate Award concurrently with another award for overseas study.

Field Work

Where a scholar is required to undertake field work or research away from the University, but in Australia, he/she should enquire from the supervisor concerning expenses.

Employment

Scholarship holders may undertake a strictly limited amount of part-time paid employment, with the approval of the institution, provided it does not interfere with their study programs.

Scholarship holders are only permitted to work up to a maximum of 180 hours per year, or, 6 hours in any one week. Any exceptions to this must be approved by the Pro Vice-Chancellor (Research). Exceptions will normally only be addressed in a student's third year of study.

Sick Leave

A student may have up to three months paid sick leave and up to three months paid maternity leave within the tenure of the award. The University may extend an award to compensate for periods longer than two weeks if a medical certificate is provided by the student.

Benefits

Stipends and allowances are indexed annually.

Stipend:
The 1997 stipend was $15,637 (non-taxable). Payment of stipend will be calculated from the date of commencement of study and will be paid fortnightly.

Relocation Allowances
A travel allowance of up to a maximum of a single economy or student concession airfare(s) for the scholar, spouse and dependents and removal expenses of up to $420 per adult and $210 per child with a maximum of $1,210, may be paid on production of receipts, for a scholar who is obliged to move residence in order to take up the award.

Overseas students or Australian citizens who are resident overseas at the time of receipt of the award may be paid a travel allowance based on the single economy airfare from Perth to Sydney.

Thesis Allowance
A scholar may claim reimbursement for an amount of up to $800 to assist with costs for a PhD thesis and up to $400 for an Honours Masters thesis.

Termination of Awards

Awards may be terminated at the discretion of the University if progress is not satisfactory.

POSTGRADUATE PRIZES

For prizes open to postgraduate students, please contact your Faculty.
The following Rules are contained in this section:

1. Course Rules .......................................................... 20
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COURSE RULES

PART 1 - GENERAL RULES

001. Preliminary

(1) These Rules may be cited as the Course Rules.

(2) The General Rules govern registration, enrolment, progression through and qualification for undergraduate and postgraduate courses offered by the University, and are to be read in conjunction with an appropriate Part of the Rules.

(3) Rules for undergraduate courses are provided in:
Part 1 Bachelor Degree Rules
Part 2 Graduate Certificate Rules
Part 3 Graduate Diploma Rules
Part 4 Masters Degree Rules
Part 5 Honours Masters Degree Rules
Part 6 Doctoral Degree (by thesis) Rules
Part 7 Doctoral Degree (by publication) Rules
Part 8 Higher Doctoral Degree Rules

002. Commencement

These Rules became operative on 1 January 1998.

003. Interpretation

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

(2) In these Rules, unless the contrary intention appears:
(a) ‘Council’ is the Council of the University of Wollongong;
(b) ‘approved’ or ‘approval’ means approval by Council or under authority delegated by Council;
(c) ‘candidate’ is a person registered for a course;
(d) ‘undergraduate’ refers to candidates or courses for bachelor degrees;
(e) ‘postgraduate’ refers to candidates or courses for graduate certificates, graduate diplomas, masters degrees, honours masters degrees and doctoral degrees;
(f) ‘course’ is the subject or combination of subjects which a candidate takes for a certificate or a diploma or a degree;
(g) ‘double degree’ is an approved course leading to the conferral of two degrees as separate awards upon a candidate who has complied with the Course Requirements for double degrees and the two individual Course Requirements inclusively;
(h) ‘full time candidate’ is a candidate enrolled for a program which, for each session of registration, is three eighths or more of an annual requirement for course completion in normal minimum time;
(i) ‘part time candidate’ is a candidate who is not a full time candidate;
(j) ‘external candidate’ is a part time candidate registered for a course which has been approved for offer in an external mode;
(k) ‘program’ is the combination of subjects in which a candidate is enrolled in any one session or year;
(l) ‘session’ is one of the three periods, autumn session, spring session, summer session, in which subjects are offered each year;
(m) ‘year’ or ‘academic year’ or ‘annual’ refers to the period comprising autumn session, the following spring session and the following summer session;
(n) ‘weeks of session’ are the weeks counted from the beginning of a session and not including weeks scheduled as University recess;
(o) ‘subject’ is a self-contained unit of study identified by a unique number in the relevant Schedules;
(p) ‘research subject’ is a subject at 900 level with a value of 24 or more credit points, being either a thesis or a minor thesis, and taken for an honours masters degree or a doctoral degree;
(q) ‘thesis’ is a research subject with a value of 48 credit points;
(r) ‘minor thesis’ is a research subject with a value of 24 or 36 credit points;
(s) ‘credit point’ is the value attached to a subject as a component of a degree and, for a subject other than a research subject, each credit point has an implied workload of 28 hours over the duration of that subject;
(t) ‘weighted average mark’ is the average of marks gained by a candidate in a program, programs or course and weighted by credit point value and by level;
(u) ‘sessional subject’ is a subject, other than a research subject, offered during one of autumn session, spring session or summer session;
(v) ‘double session subject’ is a subject, other than a research subject, offered for the duration of two sessions;
(w) ‘triple session subject’ is a subject, other than a research subject, offered for the duration of three consecutive sessions;
(x) ‘modular subject’ is a subject, other than a research subject, offered for a defined approved period not constrained by a session of the University, and which may be offered externally;
(y) ‘100 level subject’ is a subject at first year level;
‘200 level subject’ is a subject at second year level;
‘300 level subject’ is a subject at third year level;
‘400 level subject’ is a subject at fourth year level;
‘500 and 900 level subjects’ are subjects or research subjects at postgraduate level;
(z) ‘pre-requisite subject’ is a subject which must be completed satisfactorily before the subject for which it is prescribed may be taken;
064. Admission and Registration Requirements

(1) To qualify for admission as a candidate for:

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

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

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

(d) a doctoral degree by thesis, a person shall comply with requirements for admission set out in the relevant part of the Rule governing the course, except that, in appropriate circumstances, an applicant who does not qualify for registration under Rule 004(1)(d), (c) or (d) may be permitted to register as a candidate for a postgraduate course provided that evidence is submitted of such tertiary academic and professional attainment as may be approved.

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

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

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

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

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

(7) Continuation of registration is contingent upon compliance with any approved conditions imposed at initial registration or thereafter.

(8) Except with approval, and then under approved conditions, a candidate shall not be registered concurrently for more than one course in this University or other tertiary institution.

(9) A person who, in the opinion of Council, has an unsatisfactory academic record in, or who is suspended, excluded or expelled from, any tertiary institution shall not be permitted to register for any course.

(10) Except with approval in exceptional circumstances, a candidate is subject to the course time limits set out in Attachment A following these Rules.

(11) A candidate who changes registration from one type of candidature referred to in Rule 004(6) to another shall be subject to approved time limits.

(12) A person who has not completed requirements for a course after expiration of the maximum period of registration set out for that course in Attachment A following these Rules and for whom continuance of registration has not been approved shall not be permitted to register again for that course.

006. Enrollment Requirements

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

(2) A candidate may enrol in a subject provided that:

(a) the conditions for enrolment specified in the appropriate Schedule are satisfied, save that a pre-
Except with approval, a candidate shall not enrol in an annual program with a value of less than 12 credit points excepting that a candidate who needs less than 12 credit points to complete a course must enrol for all subjects needed to complete that course.

Except with approval, a candidate may not enrol in the same, or substantially the same, subject more than twice.

Except with approval, a candidate shall not enrol in an annual program with a value of less than 12 credit points excepting that a candidate who needs less than 12 credit points to complete a course must enrol for all subjects needed to complete that course.

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

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

A candidate who is refused continuation of registration, through suspension, exclusion or expulsion as prescribed in Attachment B following these Rules, may not enrol in any subject.

Subjects approved for courses referred to in Rule 001(3) and (4) are listed in the Schedules in Attachment Z following these Rules. The Schedules are:

Undergraduate Schedules:
- Schedule Z1 for bachelor degrees;
- Schedule Z2 for postgraduate courses.

Postgraduate Schedule:
- Schedule Z1 for bachelor degrees; and
- Schedule Z2 for postgraduate courses.

Variation of Registration

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

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

At any time prior to the submission of the thesis in the relevant research subject, a candidate for an honours masters degree may apply to change registration to a doctoral degree.

Except with approval to the contrary, restrictions imposed on enrolment or registration of a candidate prior to, or at the time of a change of registration shall continue to apply after change of registration. For a candidate for an undergraduate course, Rule 011(2)(b) will apply immediately upon change of registration should there be no provisions to the contrary.
008. Variation of Enrolment for Subjects Other Than Research Subjects

(1) A candidate may withdraw from a subject in a program by notifying the Vice-Principal (Administration) in writing, provided such withdrawal is made no later than the last day of the week prescribed in Rule 008(3) of the session in which offer of the subject is completed. A candidate withdrawing from one or more subjects is advised to seek advice from an academic adviser before submitting this notification.

(2) Where a variation referred to in Rule 008(1) is withdrawal from:

(a) an autumn session or spring session subject before the end of the eighth week of the session of offer; or
(b) a summer session subject before the end of the third week of the session; or
(c) a double session or a triple session subject before the end of the second week of the second session in which the subject is offered;
(d) a modular subject before the end of the week during which 60% of the duration of the subject has expired, the candidate shall be deemed to have not enrolled in that subject, and that subject will then not appear on the academic record of the candidate.

(3) Where a variation referred to in Rule 008(1) is the withdrawal from:

(a) an autumn session or spring session subject after the end of the eighth week, but before the end of the twelfth week of the session of offer; or
(b) a summer session subject after the end of the third week but before the end of the fifth week of the summer session; or
(c) a double session or a triple session subject after the end of the second week, but before the end of the eighth week of the second session in which the subject is offered;
(d) a modular subject after the end of the week during which 60% of the subject has expired but before the end of the week during which 75% of the subject has expired:

the candidate shall be determined to have failed that subject (but no mark shall be recorded) unless withdrawal is for acceptable medical, personal or other reasons. In this latter case, the candidate will be deemed to have discontinued the subject without penalty for the purposes of Rules 005(3) and 011(2) to (4) and only the subject and date of discontinuance will appear on the academic record of the candidate.

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

(5) Permission for a candidate to enrol in an additional subject for a program is contingent upon restrictions imposed by relevant provisions of Rules 005 and 008(6) and (7).

(6) Except with approval of the Head, a candidate may not enrol in:

(a) an autumn session or spring session subject after the expiration of the second week of the session; or
(b) a summer session subject after the expiration of the first week of the session; or
(c) a double session or a triple session subject after the expiration of the second week of the first session in which the subject is offered or after the expiration of

the first week should the first session of offer be the summer session.

(d) a modular subject after the expiration of the week during which 15% of the subject has expired.

(7) Under no circumstances may a candidate enrol in:

(a) an autumn session or spring session subject after the expiration of the fourth week of the session; or
(b) a summer session subject after the expiration of the second week of the session; or
(c) a double session or a triple session subject after the expiration of the fourth week of the first session in which the subject is offered or after the expiration of the second week should the first session of offer be summer session.

(d) a modular subject after the expiration of the week during which 25% of the subject has expired.

009. Requirements for Theses and Minor Theses

(1) A candidate enrolled for a research subject shall carry out work for the thesis or minor thesis under supervision as set out in Attachment C1 following these Rules.

(2) The requirements for research subjects are set out in Attachment C2 following these Rules.

(3) The requirements for preparation and submission of theses and minor theses are set out in Attachment C3 following these Rules.

(4) The examination of theses and minor theses shall be conducted according to the requirements set out in Attachment C4 following these Rules.

010. Assessment

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

(2) In a research subject, the methods of assessment of performance of a candidate shall be determined by the provisions of Attachment C4 and C5 following these Rules.

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

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

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

(5) A mark and an approved grade of performance as set out in Attachment D following these Rules, shall be determined and declared for each subject in which a candidate is enrolled.

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

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

011. Minimum Rate of Progress

(1) A candidate may enrol in a program in accordance with provisions of Rule 005 provided that the rate of progress is at least the minimum specified by the relevant Rule 011(2), (3) or (4).

(2) The required minimum rate of progress by a candidate in a bachelor degree is:

(a) in the first year of registration, satisfactory completion of subjects having a credit point value of at least half the credit point value of the subjects offered to completion in the program for the year; and

(b) in each subsequent year of registration, satisfactory completion of subjects having a credit point value of at least two-thirds the credit point value of the subjects offered to completion in the program for the year.

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

(4) The required minimum rate of progress by a candidate in one of the postgraduate courses listed in Part 5 of these Rules is satisfactory completion of subjects, excluding research subjects, having a credit point value of at least one half the credit points attached to the subjects offered to completion in the program for the year.

The required minimum rate of progress by a candidate in any course listed in Part 6 of these Rules which includes a coursework component, is satisfactory completion of all subjects, excluding research subjects, offered to completion in the program for the year.

(5) A candidate whose rate of progress is less than the minimum specified in the relevant Rule 011(2), (3) or (4), may be refused registration subject to provisions set out in Attachment B following these Rules.

Unless exceptional circumstances apply, a candidate whose rate of progress is less than that specified in Rule 011(4)(b) may not continue registration in that degree, a candidate not meeting this requirement may be permitted to register for a course under Part 5 of these Rules, subject to satisfying Rule 011(4)(a).

A candidate who is subject to Rule 011(5) and is not refused registration may continue registration after consultation with an Academic Adviser to determine a suitable program.

013. Leave of Absence

(1) A candidate for one of the courses listed in Rule 102(a), 202, 302, 402 or 502:

(a) becomes eligible for leave of absence at the beginning of the second session of registration; and

(b) may be granted leave of absence for one or two sessions provided written application is made to the Vice-Principal (Administration) before the end of the fourth week of the first session for which leave is sought.

(2) A candidate for one of the honours degrees listed in Rule 103(5) may be granted leave of absence for one or two sessions provided that written application is made to the Vice-Principal (Administration) before the end of the fourth week of the first session for which leave is sought.

(3) A candidate for one of the courses listed in Rule 602 may be granted leave of absence for up to four sessions provided that written application is made to the Vice-Principal (Administration) before the end of the fourth week of the first session for which leave is sought.

014. Conferral of Awards

(1) A course award may be conferred upon a candidate who has completed with relevant parts of these Rules, satisfied any requirement set out in Attachment F following these Rules and is not indebted to the University, provided that, in addition, a candidate for a bachelor degree has:

(a) been registered for that course for at least one year; and

(b) has completed the requirements for the 300 level subject component of the major study while so registered, or for prescribed courses, satisfactorily completed subjects with a value of at least 24 credit points while so registered.

(2) A candidate who has qualified more than once at this University for the same course award, excepting as set out in Rule 014(3), and excepting for those course awards set out in Attachment G following these Rules, shall receive only a statement of the additional qualification setting out the subjects completed and the marks and grades attained.

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

015. Ownership of Work and Intellectual Property

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

(2) The University retains the right to intellectual property resulting from work undertaken by a candidate excepting that the candidate may negotiate with the University for ownership of some or all of the intellectual property.
(3) A candidate retains copyright over a thesis submitted for assessment in a subject or for an award, subject to the requirements prescribed in Attachment C3 following these Rules.

016. General Saving Clause

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

017. Application for Amending Rules

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

018. Appeal

(1) A candidate may appeal against any decision made under these Rules.

(2) An appeal should be made in writing to the Vice-Principal (Administration) within 14 days of notification of the decision referred to in Rule 018(1).

(3) An appeal shall conform with approved guidelines.

PART 1 - BACHELOR DEGREE RULES

101. Preliminary

Part 1 of these Rules applies to a candidate registered for a bachelor degree, and is to be read in conjunction with relevant provisions of the General Rules and Attachments A, B, D1, E, E1, E2, F, G, Z and Z1 following these Rules.

102. Bachelor Degrees and the Abbreviations

Part 1 of these Rules controls undergraduate courses, including approved prescribed double degree courses listed in Rule 111, leading to:

(a) the pass bachelor degrees:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>BA</td>
</tr>
<tr>
<td>Bachelor of Biotechnology</td>
<td>BBiotech</td>
</tr>
<tr>
<td>Bachelor of Commerce</td>
<td>BCom</td>
</tr>
<tr>
<td>Bachelor of Computer Science</td>
<td>BCompSc</td>
</tr>
<tr>
<td>Bachelor of Creative Arts</td>
<td>BCA</td>
</tr>
<tr>
<td>Bachelor of Education</td>
<td>BE</td>
</tr>
<tr>
<td>Bachelor of Engineering</td>
<td>BE</td>
</tr>
<tr>
<td>Bachelor of Environmental Science</td>
<td>BEnvSc</td>
</tr>
<tr>
<td>Bachelor of Exercise Science</td>
<td>BExSc</td>
</tr>
<tr>
<td>Bachelor of Health Science in Indigenous Health</td>
<td>BHScolndgHth</td>
</tr>
<tr>
<td>Bachelor of Information and Communication Technology</td>
<td>BInfoTech</td>
</tr>
<tr>
<td>Bachelor of Laws</td>
<td>LLB</td>
</tr>
<tr>
<td>Bachelor of Letters</td>
<td>LittB</td>
</tr>
<tr>
<td>Bachelor of Mathematics</td>
<td>BMATH</td>
</tr>
<tr>
<td>Bachelor of Mathematical Sciences</td>
<td>BMATHSc</td>
</tr>
<tr>
<td>Bachelor of Mathematics and Economics</td>
<td>BMATHEcon</td>
</tr>
<tr>
<td>Bachelor of Mathematics and Finance</td>
<td>BMATHFin</td>
</tr>
<tr>
<td>Bachelor of Medical Physics</td>
<td>BMEDPhys</td>
</tr>
<tr>
<td>Bachelor of Medicinal Chemistry</td>
<td>BMEDChem</td>
</tr>
<tr>
<td>Bachelor of Nursing</td>
<td>BNSING</td>
</tr>
<tr>
<td>Bachelor of Polymer Science and Engineering</td>
<td>BPSCE</td>
</tr>
<tr>
<td>Bachelor of Psychology</td>
<td>BPSC</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>BSC</td>
</tr>
</tbody>
</table>

(b) the honours bachelor degrees:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Biotechnology</td>
<td>BBiotech(Hons)</td>
</tr>
<tr>
<td>Bachelor of Commerce</td>
<td>BCom(Hons)</td>
</tr>
<tr>
<td>Bachelor of Computer Science</td>
<td>BCompSc(Hons)</td>
</tr>
<tr>
<td>Bachelor of Creative Arts</td>
<td>BCA(Hons)</td>
</tr>
<tr>
<td>Bachelor of Education</td>
<td>BED(Hons)</td>
</tr>
<tr>
<td>Bachelor of Engineering</td>
<td>BE(Hons)</td>
</tr>
<tr>
<td>Bachelor of Environmental Science</td>
<td>BEnvSc(Hons)</td>
</tr>
<tr>
<td>Bachelor of Exercise Science</td>
<td>BExSc(Hons)</td>
</tr>
<tr>
<td>Bachelor of Information and Communication Technology</td>
<td>BInfoTech(Hons)</td>
</tr>
<tr>
<td>Bachelor of Laws</td>
<td>LLB(Hons)</td>
</tr>
<tr>
<td>Bachelor of Letters</td>
<td>LittB(Hons)</td>
</tr>
<tr>
<td>Bachelor of Mathematics</td>
<td>BMATH(Hons)</td>
</tr>
<tr>
<td>Bachelor of Mathematical Sciences</td>
<td>BMATHSc(Hons)</td>
</tr>
<tr>
<td>Bachelor of Mathematics and Economics</td>
<td>BMATHEcon(Hons)</td>
</tr>
<tr>
<td>Bachelor of Mathematics and Finance</td>
<td>BMATHFin(Hons)</td>
</tr>
<tr>
<td>Bachelor of Medical Physics</td>
<td>BMEDPhys(Hons)</td>
</tr>
<tr>
<td>Bachelor of Medicinal Chemistry</td>
<td>BMEDChem(Hons)</td>
</tr>
<tr>
<td>Bachelor of Nursing</td>
<td>BNSING(Hons)</td>
</tr>
<tr>
<td>Bachelor of Polymer Science and Engineering</td>
<td>BPSCE(Hons)</td>
</tr>
<tr>
<td>Bachelor of Psychology</td>
<td>BPSC(Hons)</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>BSC(Hons)</td>
</tr>
</tbody>
</table>

103. Admission and Registration Requirements

(1) An applicant shall comply with relevant provisions of Rules 004 and 103(2) to (8).

(2) To qualify for admission to the conversion course leading to the degree of Bachelor of Education a person shall have:

(a) qualified for the appropriate Diploma in Teaching or Bachelor of Teaching of this University or an approved equivalent qualification; and

(b) satisfactorily completed other approved requirements.

(3) To qualify for admission to the course leading to the degree of Bachelor of Laws a person shall have:

(a) qualified for the award of a bachelor degree; or

(b) complied with any other approved requirements as set out in the Law Schedule.

(4) To qualify for admission to the conversion course leading to the degree of Bachelor of Nursing a person shall have:

(a) either:

(i) qualified for either the Diploma of Applied Science (Nursing) or the Diploma of Nursing of this University or an approved equivalent qualification; or

(ii) registered or be eligible for registration as a nurse in Australia, and have acceptable qualifications; and

(b) satisfactorily completed other approved requirements.

(5) To qualify for admission to a course leading to an honours degree of Bachelor of Arts, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Creative Arts, Bachelor of Mathematics, Bachelor of Nursing or Bachelor of Science a person shall have:

(a) either:

(i) qualified at this University for the award of a relevant pass bachelor degree, either with merit or in which the 300 level subjects in a relevant major study were completed at an average of Credit grade or better; or

(ii) qualified at another tertiary institution for the award of a pass bachelor degree containing a coherent study equivalent to a relevant major...
To qualify for award of the degree of Bachelor of Commerce a candidate shall:

(a) accrue an aggregate of at least 144 credit points, including a major study in Computer Science, by the satisfactory completion of subjects listed in either or both the Computer Science Schedule and the General Schedule; and

(b) satisfy the requirements prescribed in the Computer Science Schedule.

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

107. Course Requirements for Bachelor of Computer Science

108. Course Requirements for Bachelor of Mathematics

To qualify for the award of the degree of Bachelor of Mathematics a candidate shall:

(a) accrue an aggregate of at least 144 credit points, including a major study in either Mathematics or Applied Statistics, by the satisfactory completion of subjects listed in either or both the General Schedule and the Mathematics Schedule; and

(b) satisfy the requirements prescribed in the Mathematics Schedule.

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

109. Course Requirements for Bachelor of Science

To qualify for award of the degree of Bachelor of Science a candidate shall:

(a) accrue an aggregate of at least 144 credit points, including a major study in Computer Science, by the satisfactory completion of subjects listed in either or both the Computer Science Schedule and the General Schedule.

(b) satisfy the requirements prescribed in the Computer Science Schedule.

(c) include a major study in Computer Science.

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

110. Course Requirements for Prescribed Courses for Bachelor Degrees

To qualify for the award of the degree of:

Bachelor of Biotechnology;
Bachelor of Creative Arts;
Bachelor of Education;
Bachelor of Engineering;
Bachelor of Environmental Science;
Bachelor of Exercise Science;
Bachelor of Health Science in Indigenous Health;
Bachelor of Information & Communication Technology;
Bachelor of Laws;
Bachelor of Mathematical Sciences;
Bachelor of Mathematics and Economics;
Bachelor of Mathematics and Finance;
Bachelor of Medical Physics;
Bachelor of Medicinal Chemistry;
Bachelor of Nursing;
Bachelor of Nutrition & Dietetics;
Bachelor of Polymer Science & Engineering;
Bachelor of Psychology;
Bachelor of Teaching; or
Bachelor of Technology;

a candidate shall complete satisfactorily the subjects and the
requirements prescribed in one of the courses in the relevant Schedule
in Attachment Z1 following these Rules.

111. Course Requirements for Prescribed Double Degree
Courses for Bachelor Degrees

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

a candidate shall complete satisfactorily the subjects and the
requirements prescribed in one of the double degree courses in the
relevant Schedule in Attachment Z1 following these Rules.

112. Course Requirements for Honours Bachelor Degrees in
Arts, Commerce, Computer Science, Creative Arts,
Mathematics, Nursing and Science

To qualify for award of an honours degree of:
Bachelor of Arts;
Bachelor of Commerce;
Bachelor of Computer Science;
Bachelor of Creative Arts;
Bachelor of Mathematics;
Bachelor of Nursing; or
Bachelor of Science;

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

113. Conferral of Awards

(1) Awards shall be conferred in accordance with the relevant
provisions of Rules 014 and 113(2) to (11).

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

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

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

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

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

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

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

A candidate who has attained an approved standard of
achievement in the course for the pass degree of Bachelor of
Commerce may be awarded that degree with merit, as prescribed in Attachment H.

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

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

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

A candidate for a pass degree of:
Bachelor of Biotechnology;
Bachelor of Education;
Bachelor of Engineering;
Bachelor of Environmental Science;
Bachelor of Exercise Science;
Bachelor of Information & Communication Technology;
Bachelor of Laws;
Bachelor of Mathematical Sciences;
Bachelor of Mathematics and Economics;
Bachelor of Mathematics and Finance;
Bachelor of Medical Physics;
Bachelor of Medicinal Chemistry;
Bachelor of Polymer Science and Engineering; or
Bachelor of Psychology,

who completes satisfactorily the subjects prescribed in one of
the courses listed in the relevant schedule at the standard of
achievement prescribed in Attachment D1(3) following these
Rules, shall receive the corresponding honours degree.
A candidate who satisfactorily completes relevant requirements may be awarded the honours bachelor degree in one of the classes:

- Honours Class I;
- Honours Class II Division 1;
- Honours Class II Division 2;
- Honours Class III;

... determined as set out in Attachment D1(2) and (3) following these Rules.

**PART 2 - GRADUATE CERTIFICATE RULES**

201. Preliminary

Part 2 of these Rules applies to a candidate registered for a graduate certificate and is to be read in conjunction with relevant provisions of the General Rules and Attachments A, B, D1, D2, E3, F1, Z, Z1 and Z2 following these Rules.

202. Graduate Certificates and the Abbreviations

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

- Graduate Certificate in Adult Career Development
- Graduate Certificate in Applied Economics
- Graduate Certificate in Business Information Systems
- Graduate Certificate in Cognitive Neuroscience
- Graduate Certificate in Computer-based Learning
- Graduate Certificate in Engineering (Telecommunications)
- Graduate Certificate in Environmental Education
- Graduate Certificate in Gifted Education
- Graduate Certificate in Health Policy and Management
- Graduate Certificate in Higher Education
- Graduate Certificate in History Education
- Graduate Certificate in Indigenous Health Studies
- Graduate Certificate in Information & Communication Technology
- Graduate Certificate in Literacy
- Graduate Certificate in Management
- Graduate Certificate in Mental Health
- Graduate Certificate in Migration and Development
- Graduate Certificate in Multicultural Journalism
- Graduate Certificate in Nursing
- Graduate Certificate in Public Health Research Methods
- Graduate Certificate in Special Education
- Graduate Certificate in Steel Processing and Products
- Graduate Certificate in TESOL
- Graduate Certificate in Textual Studies, Media and Linguistics
- Graduate Certificate in Total Quality Management

**PART 3 - GRADUATE DIPLOMA RULES**

301. Preliminary

Part 3 of these Rules applies to a candidate registered for a graduate diploma and is to be read in conjunction with relevant provisions of the General Rules and Attachments A, B, D1, D2, E3, F1, Z, Z1 and Z2 following these Rules.

302. Graduate Diplomas and the Abbreviations

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

- Graduate Diploma in Adult Education and Training
- Graduate Diploma in Arts
- Graduate Diploma in Commerce
- Graduate Diploma in Education
- Graduate Diploma in Engineering
- Graduate Diploma in Indigenous Health Studies
- Graduate Diploma in Law
- Graduate Diploma in Materials Welding and Joining
- Graduate Diploma in Mining Management
- Graduate Diploma in Natural Resources Law
- Graduate Diploma in Nursing
- Graduate Diploma in Public Health
- Graduate Diploma in Science
- Graduate Diploma in Statistics
- Graduate Diploma in TESOL
- Graduate Diploma in Total Quality Management

303. Admission and Registration Requirements

(1) A candidate shall comply with the relevant provisions of Rules 004 and 303(2) or (3).

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

(3) An applicant for registration for the Graduate Diploma in Science with specialisation in Community Health or in Mental Health must have qualified for an approved three year health profession diploma or the equivalent from an approved institution and have at least one year, or the equivalent, of acceptable professional experience.

304. Course Requirements for the Graduate Diploma

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

(a) accrue an aggregate of at least 48 credit points by the satisfactory completion of subjects approved by the Head and prescribed in one of the courses listed in the relevant Schedules in Attachments Z1 and Z2 following these Rules; and

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

305. Conferral of Awards

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

(2) Prior to the conferring of a graduate diploma upon a candidate who holds a graduate certificate of the University and which was a component of the graduate diploma, the candidate shall be deemed to have surrendered the testamur for that graduate certificate and in doing so shall be deemed to have surrendered all rights relating to that graduate certificate.
PART 4 - MASTERS DEGREE RULES

401. Preliminary

Part 4 of these Rules applies to a candidate registered for a masters degree and is to be read in conjunction with relevant provisions of the General Rules and Attachments A, B, D1, D2, E3, F1, Z, Z1 and Z2 following these Rules.

402. Masters Degrees and the Abbreviations

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

- Master of Arts (MA)
- Master of Business Administration (MBA)
- Master of Clinical Psychology (MClinPsych)
- Master of Commerce (MCom)
- Master of Computer Science (MCCompSc)
- Master of Court Management (MCourtMgmt)
- Master of Creative Arts (MCA)
- Master of Education (MED)
- Master of Engineering Practice (MEngPrac)
- Master of Engineering Studies (MEngStud)
- Master of Indigenous Health Studies (MindHealth)
- Master of Information and Communication Technology (MinforTech)
- Master of Laws (LLM)
- Master of Logistics and Operations Management (MLoLogOpMgmt)
- Master of Mathematics (MMath)
- Master of Mining Management (MMinMgt)
- Master of Natural Resources Law (MNatResLaw)
- Master of Nursing (MNursing)
- Master of Policy (MPol)
- Master of Public Health (MPH)
- Master of Science (MSc)
- Master of Statistics (MStat)
- Master of Technology (MEngTech)
- Master of Nursing (MNursing)
- Master of Natural Resources Law (MNatResLaw)
- Master of Court Management (MCourtMgmt)
- Master of Creative Arts (MCA)
- Master of Arts (MA)
- Master of Business Administration (MBA)
- Master of Clinical Psychology (MClinPsych)
- Master of Commerce (MCom)
- Master of Computer Science (MCCompSc)
- Master of Court Management (MCourtMgmt)
- Master of Creative Arts (MCA)
- Master of Education (MED)
- Master of Engineering Practice (MEngPrac)
- Master of Engineering Studies (MEngStud)
- Master of Indigenous Health Studies (MindHealth)
- Master of Information and Communication Technology (MinforTech)
- Master of Laws (LLM)
- Master of Logistics and Operations Management (MLoLogOpMgmt)
- Master of Mathematics (MMath)
- Master of Mining Management (MMinMgt)
- Master of Natural Resources Law (MNatResLaw)
- Master of Nursing (MNursing)
- Master of Policy (MPol)
- Master of Public Health (MPH)
- Master of Science (MSc)
- Master of Statistics (MStat)
- Master of Technology (MEngTech)

403. Course Requirements for the Masters Degree

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

(2) For a candidate who has satisfactorily completed a relevant major study or approved work equivalent to a relevant major study, either as part of a completed bachelor degree or in addition to a completed bachelor degree, the course shall comprise subjects having a value of at least 48 credit points at 900 level and selected from the relevant Schedules in Attachment Z2.

(3) For a candidate who has completed a bachelor degree, or an approved equivalent qualification, which does not include a relevant major study or the equivalent of a relevant major study, the course shall comprise subjects having a value of at least 72 credit points of which:
   (a) at least 48 credit points at 900 level shall be for subjects selected from the relevant Schedules in Attachment Z2; and
   (b) the credit points constituting the remainder of the program shall be for subjects at 200, 300, 400, 800 or 900 level selected from the relevant Schedules in Attachments Z1 and Z2; a maximum of 12 credit points may be for subjects at the 200 level.

(4) For a candidate for a degree of Master of Business Administration, the course shall comprise subjects having a value of at least 96 credit points, selected from the relevant Schedules in Attachment Z2.

404. Conferment of Awards

(1) Awards shall be conferred in accordance with the relevant provisions of Rules 404(1) and 404(2).

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

PART 5 - HONOURS MASTERS DEGREE RULES

501. Preliminary

Part 5 of these Rules applies to candidates registered for an honours masters degree and is to be read in conjunction with relevant provisions of the General Rules and Attachments A, B, C, D1, D2, E, F1, Z, Z1 and Z2 following these Rules.

502. Honours Masters Degrees and the Abbreviations

Part 5 of these Rules controls postgraduate courses leading to the honours masters degrees:

- Honours Master of Arts (MA(Hons))
- Honours Master of Business Administration (MBA(Hons))
- Honours Master of Clinical Psychology (MClinPsych(Hons))
- Honours Master of Commerce (MCom(Hons))
- Honours Master of Computer Science (MCCompSc(Hons))
- Honours Master of Court Management (MCourtMgmt(Hons))
- Honours Master of Engineering Practice (MEngPrac(Hons))
- Honours Master of Engineering Studies (MEngStud(Hons))
- Honours Master of Indigenous Health Studies (MindHealth(Hons))
- Honours Master of Information and Communication Technology (MinforTech(Hons))
- Honours Master of Laws (LLM(Hons))
- Honours Master of Logistics and Operations Management (MLoLogOpMgmt(Hons))
- Honours Master of Mathematics (MMath(Hons))
- Honours Master of Mining Management (MMinMgt(Hons))
- Honours Master of Natural Resources Law (MNatResLaw(Hons))
- Honours Master of Nursing (MNursing(Hons))
- Honours Master of Policy (MPol(Hons))
- Honours Master of Public Health (MPH(Hons))
- Honours Master of Science (MSc(Hons))
- Honours Master of Statistics (MStat(Hons))
- Honours Master of Technology (MEngTech(Hons))
- Honours Master of Total Quality Management (MTQM(Hons))

503. Course Requirements for the Honours Masters Degree

(1) To qualify for award of an honours masters degree, a candidate shall:
   (a) undertake an approved course as recommended by the Head;
   (b) accrue the required number of credit points by satisfactory completion of subjects comprising the course as set out in Rule 503(2) and (3);
   (c) be subject to any provisions of the Course Requirements for that particular honours masters degree; and
   (d) satisfactorily complete such examinations and other work as may be prescribed.

(2) For a candidate who has completed a bachelor degree at a standard of Honours Class II Division 2 or higher or approved equivalent qualification, or in the case of a candidate for the Honours Master of Engineering who has completed a degree of Bachelor of Engineering of this University at a standard of Honours Class III or higher or approved equivalent qualification, the course shall comprise subjects having a value of at least 48 credit points at 900 level, including a research subject, selected from the relevant Schedules in Attachment Z2.

(3) For a candidate who has completed a bachelor degree but has not satisfied the requirements stipulated in Rule 503(2), the course shall comprise subjects having a value of at least 96 credit points of which:
PART 6 - DOCTORAL DEGREE RULES

601. Preliminary

Part 6 of these Rules applies to a candidate registered for a doctoral degree by thesis and is to be read in conjunction with the relevant provisions of the General Rules and Attachments A, B, C, Z and ZZ following these Rules.

602. Doctoral Degrees and the Abbreviations

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

- Doctor of Philosophy (PhD)
- Doctor of Clinical Psychology (DClPsy)
- Doctor of Creative Arts (DCA)
- Doctor of Education (EdD)
- Doctor of Public Health (DPH)

603. Admission and Registration Requirements

(1) An applicant shall comply with the provisions of Rules 004 and 603(2) to (4).

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

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

(4) A candidate shall register as a full time candidate for a doctoral degree except that:

(a) a member of the full time staff of the University; or

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


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

605. Outside Work

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

PART 7 - DOCTORAL DEGREE BY PUBLICATION RULES

701. Preliminary

Part 7 of these Rules applies to a candidate for a doctoral degree by publication and is to be read in conjunction with the relevant provisions of the General Rules and Attachments B, C, Z and ZZ following these Rules.

702. Doctoral Degree and the Abbreviation

Part 7 of these Rules controls the postgraduate course leading to the doctoral degree by publication:

Doctor of Philosophy (PhD)

703. Requirements for Doctor of Philosophy by Publication

(1) A person may apply for admission as a candidate for the degree of Doctor of Philosophy by publication provided that person:

(a) is a graduate of this University or of the University of New South Wales at the Wollongong University College, and

(ii) has standing of not less than eight years after admission to the first degree for which the candidate has qualified; or

(b) is not a graduate of this University but is a member of the full time academic staff with standing of not less than eight years after admission to a first degree of another University.

(2) An application, accompanied by the prescribed charge, shall be made in writing to the Vice Principal (Administration) and shall include:

(a) identification of the academic unit with which the contribution to scholarship is considered to be most closely associated;

(b) five copies of a list of published works on which the claim for admission to the degree is based;

(c) five copies of the works listed in 703(2)(b), all works, apart from quotations, to be presented in, or translated into, English, unless otherwise approved; and

(d) a statement, which shall be an overview of normally not less than 5,000 words, setting out ways in which the collective publications provide an original and significant contribution to knowledge and incorporating:

(i) details of sources from which the works were derived;

(ii) details of the extent to which work of others has been availed upon;
(iii) details of the extent to which the applicant was responsible for the initiation, conduct and direction of any joint works submitted as part of the application;
(iv) evidence that the publications have standing as significant contributions to knowledge; and
(v) a declaration identifying any of the works referred to in Rule 703(2)(b) which have been submitted for any qualification of any tertiary institution.

704. Course Requirements for Doctor of Philosophy by Publication

A candidate for the degree of Doctor of Philosophy by publication shall enrol in a research subject comprising a thesis in accordance with the provisions of Attachment C1 following these Rules.

705. Examination

(1) Should Council be satisfied that the submitted work is of sufficiently high quality to be prima facie worthy of examination for the degree, it shall appoint examiners as prescribed in Attachment C4 following these Rules.

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

(3) The examination of the work submitted shall be conducted as prescribed in Attachment C5 following these Rules.

PART 8 - HIGHER DOCTORAL DEGREE RULES

801. Preliminary

Part 8 of these Rules applies to a candidate for a prestigious higher doctoral degree and is to be read in conjunction with relevant provisions of the General Rules and Attachments B, C, Z and ZZI following these Rules.

802. Higher Doctoral Degrees and the Abbreviations

Part 8 of these Rules controls postgraduate courses leading to the higher doctoral degrees:

- Doctor of Laws (LLD)
- Doctor of Letters (DLitt)
- Doctor of Science (DSc)

803. Requirements for Doctor of Laws, Doctor of Letters and Doctor of Science

(1) A person may apply for admission as a candidate for the degree of Doctor of Laws, Doctor of Letters or Doctor of Science provided that person:

(a) (i) is a graduate of this University or of the University of New South Wales at the Wollongong University College; and
(ii) has standing of not less than eight years after admission to the first degree for which the candidate has qualified; or
(b) is not a graduate of this University but is a member of the full time academic staff with standing of not less than eight years after admission to a first degree of another University.

(2) An application shall be made in writing to the Vice-Principal (Administration) and shall include:

(a) identification of the academic unit with which the contribution to scholarship is considered to be most closely associated;

(b) five copies of a list of published and/or unpublished works on which the claim for admission to the degree is based;
(c) five copies of the works listed in 803(2)(b), all works, apart from quotations, to be presented in, or translated into, English, unless otherwise approved; and
(d) a statement, which shall be an overview of normally not less than 5,000 words, setting out ways in which the collective works provide an original and significant contribution to knowledge and incorporating:

(i) details of sources from which the works were derived;
(ii) details of the extent to which work of others has been availed upon;
(iii) details of the extent to which the applicant was responsible for the initiation, conduct and direction of any joint works submitted as part of the application;
(iv) evidence that the publications have standing as significant and sustained contributions to knowledge; and
(v) a declaration identifying any of the works referred to in Rule 803(2)(b) which have been submitted for any qualification of any tertiary institution.

804. Examination

(1) Should Council be satisfied that the submitted work is of sufficiently high quality to be prima facie worthy of examination for the degree, it shall appoint examiners as prescribed in Attachment C4 following these Rules.

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

(3) The examination of the work submitted shall be rigorous and conducted as prescribed in Attachment C5 following these Rules.

ATTACHMENTS REFERRED TO IN THE COURSE RULES

A. Time Limits for Course Completion

(1) The minimum and maximum time limits for completion of courses listed in Attachment A(2) to (8) apply except when approved to the contrary in exceptional circumstances. For postgraduate courses, the time limits do not include summer sessions.

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

(3) A candidate for a graduate certificate may be registered for that certificate for no more than:

(a) two consecutive sessions as a full time candidate; or
(b) four consecutive sessions as a part time candidate.

(4) A candidate for a graduate diploma or a 48 credit point masters degree may be registered for that diploma or degree for no more than:

(a) four consecutive sessions as a full time candidate; or
(b) eight consecutive sessions as a part time candidate.
A candidate for a 72 or a 96 credit point masters degree may be registered for that degree for no more than:

(a) six consecutive sessions as a full time candidate; or
(b) twelve consecutive sessions as a part time candidate.

A candidate for a 48 credit point honours masters degree may be registered for that degree for:

(a) no less than two consecutive sessions, and no more than four consecutive sessions as a full time candidate; or
(b) no less than three consecutive sessions, and no more than six consecutive sessions as a part time candidate.

A candidate for a 96 credit point honours masters degree may be registered for that degree for:

(a) no less than three consecutive sessions, and no more than eight consecutive sessions as a full time candidate; or
(b) no less than five consecutive sessions, and no more than twelve consecutive sessions as a part time candidate.

A candidate for a doctoral degree under Part 6 of these Rules by thesis may be registered for that degree for:

(a) no less than four consecutive sessions, and no more than eight consecutive sessions as a full time candidate; or
(b) no less than six consecutive sessions, and no more than twelve consecutive sessions as a part time candidate;

except that:

(c) (i) a candidate who, before registration, was engaged upon approved study may be exempted from not more than two sessions;
(ii) in special circumstances, a candidate may be permitted to devote not more than one calendar year to study at another institution provided that the work shall be supervised in an approved manner; and
(iii) in exceptional cases, a candidate may apply to be exempted from not more than two of the sessions stipulated in Attachment A(6)(a) or (b).

B. Refusal of Registration

(1) A candidate may be refused registration by reason of:

(a) suspension from this University for a defined period; or
(b) exclusion from this University for a defined period; or
(c) expulsion from this University.

(2) A person who is:

(a) suspended may be re-admitted to this University at the conclusion of the defined period of suspension;
(b) excluded must apply for admission to this University at the conclusion of the period of exclusion should re-admission be sought; and
(c) expelled shall not be re-admitted except by permission of Council.

(3) The period of suspension will comprise one or more sessions and the remainder of the session in which the suspension is applied.

(4) The period of exclusion will comprise one or more years and the remainder of the year in which the exclusion is applied.

(5) Any record of performance issued by this University in respect of a person refused registration as prescribed in Attachment B(1), shall include detail of such suspension, exclusion or expulsion.

C1. Supervision for Theses and Minor Theses

(1) A candidate for an honours master degree by thesis, or by coursework and either thesis or minor thesis, or for a doctoral degree, shall carry out the thesis or minor thesis work required for the research subject under the direction of a supervisor or supervisors, of whom at least one shall be a full time member of the academic staff, appointed under approved conditions.

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

(3) Work in a research subject, other than field work, shall be carried out in an academic unit of this University save that in special cases a candidate may be permitted to conduct work at other places where suitable facilities are available; such permission will be granted on the condition that direction of the work remains entirely under the control of the supervisor appointed pursuant to Attachment C1(1).

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

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

C2. Requirements for Research Subjects

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

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

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

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

(5) The thesis or minor thesis shall be presented in a form which complies with the requirements set out in Attachment C3 and shall include a certificate indicating the extent to which the work has been performed by the candidate.

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

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

(8) A candidate submitting a thesis for a doctoral degree must comply with the following additional requirements:

(a) the majority of the work submitted shall have been completed subsequent to registration for the degree;
(b) the work shall comprise an original and significant contribution to knowledge of the subject;

c) the thesis must present an account by the candidate of the study; and

d) in special cases, study carried out jointly with other persons may be accepted, provided Council is satisfied that the contribution by the candidate to the joint study is adequate.

C3. Procedures Governing the Preparation and Submission of Theses and Minor Theses

(1) A candidate required to submit a thesis for an honours masters degree or a doctoral degree shall submit to the Vice-Principal (Administration) at least four copies of the thesis and supporting work, at least two of which shall be bound according to the specifications set out in Attachment C3(4), together with a certificate from the supervisor stipulating that the thesis is in a form suitable for submission to the examiners. All copies of the thesis shall include a summary of approximately 200 words and a certificate signed by the candidate stipulating that the work has not been submitted for a degree to any other university or institution.

(2) The theses and other relevant work may be submitted for examination to the Vice-Principal (Administration) provided the candidate has completed the required minimum period of registration and is registered for the degree.

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

(a) the text of the thesis, normally in English, shall be in double-spaced typescript;

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

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

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

(4) The bound copies of the thesis shall be presented in the following manner:

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

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

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

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

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

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

(c) no other lettering or decoration is permitted on the spine or elsewhere on the binding;

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

(e) a completed and signed "Declaration Relating to Disposition of Thesis" as prescribed in Attachment C3(8), shall be affixed to the inside of the front cover of each copy of the thesis submitted for examination;

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

(5) Following examination of the thesis, with recommendation in accordance with Attachment C4(6)(a), (b), (d) or (e), the unbound copies shall be returned to the candidate, who shall make necessary corrections, if any, and present to the Vice-Principal (Administration) two copies of the thesis, bound in accordance with Attachment C3(4).

(6) The degree will not be conferred until the two bound copies are lodged with the Vice-Principal (Administration) and appropriately accompanied by a letter from the Head certifying that, if required, corrections have been satisfactorily completed.

(7) No thesis submitted for a higher degree shall be retained in the Library for record purposes only but, within copyright privileges of the author, shall be public property and accessible for consultation at the discretion of the Librarian.

(8) To stipulate the wishes of a candidate for a higher degree regarding utilisation of the contents of the thesis, the candidate is required to complete a "Declaration Relating to Disposition of Thesis" available from the Vice-Principal (Administration):

(a) Form 1 to permit the University Librarian to publish or to authorise the publication of the thesis or grant access to it; or

(b) Form 2 to withhold the right of the University Librarian to publish the thesis; or

(c) Form 3 to allow the University Librarian to publish the thesis under certain conditions; or

(d) Form 4 to withhold the right of the University Librarian to grant access, without written consent of the author, to the thesis for up to three years.

(9) The abstract submitted with a doctoral thesis shall be forwarded by the Librarian to University Microfilms International for inclusion in Dissertation Abstracts Information Service.


C4. Examination of Theses and Minor Theses

(1) Council shall appoint at least:

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

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

(c) two examiners of the thesis or minor thesis, not more than one of whom shall be internal to the University for a candidate for an honours masters degree.

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

(3) A supervisor of a candidate who has submitted a thesis or minor thesis shall provide a certificate indicating:
(a) whether the supervisor is in agreement with the statement submitted by the candidate in accordance with Attachment C2 (5); and

(b) whether, in the opinion of the supervisor, the thesis is presented in a form that complies with the requirements of Attachment C3 and is prima facie worthy of examination.

(4) An examiner of a thesis or minor thesis for an honours masters degree shall be asked to report on:

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

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

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

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

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

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

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

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

(d) whether the thesis contains material suitable for publication;

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

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

(6) After examining a thesis or minor thesis, an examiner may recommend that:

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

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

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

(d) in exceptional cases, the candidate be required to attend an oral examination to determine whether a satisfactory standard of competence in the work has been attained; or

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

(f) the candidate be not awarded the degree.

C5. Procedures for Examination of Work Submitted for Doctor of Philosophy by Publication and Higher Doctoral Degrees.

(1) Each examiner shall make an independent report on the submitted work or works.

(2) Prior to the oral examination of an applicant for a doctoral degree by publication or an applicant for a higher doctoral degree, should such examination be deemed necessary, each examiner shall present questions for the examination.

(3) Should the examiners be not satisfied with the performance of the candidate in an oral examination, Council may permit the candidate to present for that examination on a second occasion at a time to be determined by the examiners.

(4) Should the examiners not agree in their recommendations or should, for any other reason, further opinion on the merit of the submitted work be needed, Council may appoint an additional examiner or examiners who shall make an independent report on the submitted work and who may, at the discretion of such examiner or examiners, conduct an oral or written examination on that work and on the general relevant field of knowledge.

(5) At the conclusion of the examination, the examiners will submit to Council a concise report on the merits of the published work and on the examination results and Council shall determine whether or not the applicant may be admitted to the degree.

(6) Should the application for admission to the degree fail, the person may make one only additional application after a period of not less than three years from the date of the original application.

(7) An applicant for admission to the degree shall not be present at the relevant deliberations of Council.

D1. Grades of Performance for Subjects Listed in the Schedules in Attachment Z1

(1) The approved grades of performance and associated ranges of marks for 100, 200, 300 and 400 level subjects (except for subjects referred to in Attachment D1(2)) are:

Satisfactory Completion:

High Distinction 85% - 100%
Distinction 75% - 84%
Credit 65% - 74%
Pass 50% - 64%
Pass Terminating
Pass Conceded 45%-49%

Unsatisfactory Completion:

Fail 0% - 44%

For marks in the range 45-49% either a Pass Terminating or a Pass Conceded grade shall be determined and declared. A Pass Terminating grade in a subject precludes a candidate progressing to any subject, for which that first subject is a prerequisite, unless the Head determines otherwise.

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

Satisfactory Completion: Satisfactory, or
Unsatisfactory Completion: Unsatisfactory.

Such subjects will not be included in the determination of classes of honours as prescribed in Attachment D1(3).

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

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

Honours Class I 85% - 100%
Honours Class II, Division 1 75% - 84%
Honours Class II, Division 2 65% - 74%
Honours Class III 50% - 64%
Fail 0% - 49%
The classes of honours for 4 year prescribed courses will be determined by a weighted average mark determined as:

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

where

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

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

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

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

and the ranges are

<table>
<thead>
<tr>
<th>Class</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honours Class I</td>
<td>77.5 - 100%</td>
</tr>
<tr>
<td>Honours Class II Division 1</td>
<td>72.5 - 77.5%</td>
</tr>
<tr>
<td>Honours Class II Division 2</td>
<td>67.5 - 72.5%</td>
</tr>
</tbody>
</table>

(ii) For the honours degrees of Bachelor of Education, in each of Physical and Health Education, and Bachelor of Engineering, in each of Computer Engineering, Electrical Engineering, and Telecommunications Engineering, and Bachelor of Mathematical Sciences, Bachelor of Mathematics and Economics, Bachelor of Mathematics and Finance the weights are

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

and the ranges are

<table>
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<tr>
<td>Honours Class II Division 2</td>
<td>67.5 - 72.5%</td>
</tr>
</tbody>
</table>

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

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

and the ranges are

<table>
<thead>
<tr>
<th>Class</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honours Class I</td>
<td>77.5 - 100%</td>
</tr>
<tr>
<td>Honours Class II Division 1</td>
<td>72.5 - 77.5%</td>
</tr>
<tr>
<td>Honours Class II Division 2</td>
<td>67.5 - 72.5%</td>
</tr>
</tbody>
</table>

(iv) For the honours degrees of Bachelor of Environmental Science, and Bachelor of Medicinal Chemistry the weights are

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

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

<table>
<thead>
<tr>
<th>Class</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honours Class I</td>
<td>80 - 100%</td>
</tr>
<tr>
<td>Honours Class II Division 1</td>
<td>73 - 79%</td>
</tr>
<tr>
<td>Honours Class II Division 2</td>
<td>65 - 72%</td>
</tr>
</tbody>
</table>

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

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

and the ranges are

<table>
<thead>
<tr>
<th>Class</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honours Class I</td>
<td>80 - 100%</td>
</tr>
<tr>
<td>Honours Class II Division 1</td>
<td>73 - 79%</td>
</tr>
<tr>
<td>Honours Class II Division 2</td>
<td>65 - 72%</td>
</tr>
</tbody>
</table>

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

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

and the ranges are

<table>
<thead>
<tr>
<th>Class</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honours Class I</td>
<td>85-100%</td>
</tr>
<tr>
<td>Honours Class II Division 1</td>
<td>75-84%</td>
</tr>
<tr>
<td>Honours Class II Division 2</td>
<td>65-74%</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Average mark range /E</th>
<th>Project mark range /O</th>
<th>WAM &lt; 67.5</th>
<th>WAM 67.5&lt; - 72.5</th>
<th>WAM 72.5&lt; - 77.5</th>
<th>WAM ≥ 77.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>65 - 100 Pass degree</td>
<td>Hons II - 2</td>
<td>Hons II - 1</td>
<td>Hons 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>75 - 84 Pass degree</td>
<td>Hons II - 2</td>
<td>Hons II - 1</td>
<td>Hons II - 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65 - 74 Pass degree</td>
<td>Hons II - 2</td>
<td>Hons II - 2</td>
<td>Hons II - 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 - 64 Pass degree</td>
<td>Pass degree</td>
<td>Pass degree</td>
<td>Pass degree</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;44</td>
<td>No degree</td>
<td>No degree</td>
<td>No degree</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

(f) Honours may be awarded only for those 4 year prescribed courses which contain 300 and 400 level subjects having a total value of at least 60 credit points, including at least 24 credit points at the 400 level, and at least 36 credit points at the 300 level taken by the candidate at this University and including a 400 level thesis or project subject with value of at least 12 credit points, except for the degree of:

Bachelor of Laws

for which course the award of honours has no such requirements.

D2. Grades of Performance for Subjects Listed in the Schedules in Attachment 22

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

Satisfactory Completion:

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

Unsatisfactory Completion:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fail</td>
<td>0% - 49%</td>
</tr>
</tbody>
</table>

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

Satisfactory Completion: Satisfactory, or
Unsatisfactory Completion: Unsatisfactory.

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

(2) For 900 level research subjects, performance will be determined as satisfactory or unsatisfactory for each candidate at the completion of the nominated duration of each subject, and after the completion of assessment as set out in Attachment C.

E. Advanced Standing

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

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

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

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

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

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

(5) Notwithstanding the provisions of the Rules or any part of Attachment E, advanced standing additional to the maximum prescribed may be approved for a specific course to be undertaken at this University.

E1. Advanced Standing towards Pass Bachelor Degrees

(1) Subject to restrictions imposed by Rules 105 to 110, the maximum advanced standing allowable:

(a) for a completed bachelor degree, is one half the credit point equivalent of the completed degree or one half the credit point value of the degree for which the applicant is a candidate, whichever is least;

(b) (i) for a completed sub-degree tertiary qualification approved under the AQF guidelines established during 1995 is as follows:

   - Diploma (or equivalent) - 48 credit points, comprising 42 credit points unspecified at 100 level and 6 credit points unspecified at 200 level;
   - Advanced Diploma (or equivalent) - 48 credit points, comprising 36 credit points unspecified at 100 level and 12 credit points unspecified at 200 level;
   - Associate Diploma (or equivalent) - 48 credit points, comprising 36 credit points unspecified at 100 level and 12 credit points unspecified at 200 level;
   - Diploma (or equivalent) - 48 credit points, comprising 36 credit points unspecified at 100 level and 12 credit points unspecified at 200 level;
   - for a completed sub-degree tertiary qualification approved under the National guidelines established prior to 1995 and with New South Wales Higher School Certificate (or equivalent) entry, is as follows:

   - Associate Diploma (or equivalent) - 48 credit points, comprising 36 credit points unspecified at 100 level and 12 credit points unspecified at 200 level;
   - Diploma (or equivalent) - 48 credit points, comprising 36 credit points unspecified at 100 level and 12 credit points unspecified at 200 level;
   - for a completed sub-degree tertiary qualification with entry at standard lower than New South Wales Higher School Certificate (or equivalent), is determined by the minimum number of years of equivalent full time post School Certificate study required to attain the qualification as follows:
E2. Advanced Standing towards Honours Bachelor Degrees

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

E3. Advanced Standing towards Postgraduate Courses

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

(2) A candidate for the degree of honours masters under the provision of Rule 503 (3), who has completed other relevant qualifications, may be granted up to 48 credit points of advanced standing in respect to the requirements set out in Rule 503 (3)(b).

F. Other Requirements

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

F1. Information Literacy Requirements

Prior to conferral of any award upon a candidate, that candidate must satisfy the library and the computing components of the information literacy requirement.

A candidate may satisfy the library component by satisfactory participation in an approved demonstration of the on-line catalogue system of the Library. This requirement must be satisfactorily completed prior to the completion of the first year of registration for a course at the University, otherwise all results for that year will be withheld, and subsequent enrolment refused, until the requirement is satisfied.

A candidate may satisfy the computing component by:

(a) satisfying an approved exemption criterion on the basis of demonstrated computing expertise; or

(b) satisfactory completion of:

(i) an approved subject, offered by an academic unit as part of the course; or

(ii) in addition to subjects in the course, either:

1. an examination, administered by the Faculty of Science, for candidates for a Bachelor of Science which includes a major study offered by a member Department of the Faculty of Science; or

2. for other candidates, a workshop and associated test on either IBM or Macintosh systems.

F2. Minimum Mathematics Requirement

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

(a) producing evidence that upon entry to the University, requirements for enrolment in the subject MATH187 Mathematics IA Part 1 have been satisfied; or

(b) satisfactory completion of one of the subjects:

(i) MATH187 Mathematics IA Part 1; or

(ii) MATH141 Mathematics IC Part 1; or

(iii) MATH151 General Mathematics IA.

G. List of Double Award Courses

The following awards of this University may be awarded more than once to a candidate who qualifies more than once for the award.

Bachelor of Engineering

H. Bachelor of Commerce with Merit

(1) To be eligible for the award of a Bachelor of Commerce degree with Merit a candidate must:

(a) have no F, PC or PT grades; except that this rule may be waived by the Faculty of Commerce Examination Committee in exceptional circumstances on the recommendation of the Head of the relevant Academic Unit in which the candidate would otherwise qualify for the award of a degree with merit;

(b) have passed at credit level or better at least 75% of the credit points attached to 300 level subjects in the relevant specialisation schedule; and

(c) have passed at credit level or better at least 50% of the credit points attached to the 300 level subjects prescribed in the relevant specialisation schedule.

(2) The following additional criteria must be satisfied for each of the relevant specialisations as follows. A candidate for:

(a) an Accountancy specialisation

must have passed at credit level or better at least one of the following subjects:

- ACCY302 Financial Accounting III; or
- ACCY312 Management Accounting III;

(b) a Business Systems Analysis specialisation

must have passed at credit level or better at least 12 credit points of 300 level Business Systems Analysis subjects,

(c) an Economics specialisation

must have passed at credit level or better at least 50 per cent of the credit points attached to 300 level Economics subjects.
A candidate is strongly urged to read the details of each subject in which that candidate is interested. In particular, when selecting a program a candidate needs to ensure compliance with any special requirements for subjects the candidate may wish to take subsequently. Information relating to 'pre-requisites' or 'co-requisites' specifies the minimum requirements to be satisfied for enrolment in the various subjects. A candidate who believes there are grounds for requesting waiver of a pre-requisite or a co-requisite requirement because of appropriate subjects completed satisfactorily, should present a case for waiver to the Head.

In the column headed 'Session Offered' the following abbreviations are used:
- 1 - sessional subject offered in autumn session;
- 2 - sessional subject offered in spring session;
- 3 - sessional subject offered in summer session;
- 4 - double session subject offered in autumn session and the following spring session;
- 5 - double session subject offered in summer session and the following autumn session;
- 6 - double session subject offered in spring session and the following autumn session;
- 7 - double session subject offered in spring session and the following summer session;
- 8 - double session subject offered in autumn session and the following summer session;
- 9 - double session subject offered in autumn session and the following spring session;
- 10 - triple session subject offered in autumn session and the following summer and autumn sessions;
- 11 - triple session subject offered in autumn session and the following autumn and spring sessions;
- 12 - triple session subject offered in spring session and the following summer and spring sessions;
- 13 - triple session subject offered in summer session and the following summer and spring sessions;
- 14 - triple session subject offered in summer session and the following autumn and spring sessions;
- 15 - triple session subject offered in autumn session and the following autumn and spring sessions;

Z. Schedules

All subjects approved for inclusion in a course leading to an award are listed in one or more of the Schedules of subjects.

ASSESSMENT AND EXAMINATION RULES

EXAMINATIONS

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

PART 1 - Interpretation

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

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

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

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

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

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

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

(g) "examiner" means a person or persons with responsibility for the assessment work in any subject;

(h) "subject" is a self-contained unit of study identified by a unique number in a schedule;
PART II – Conduct at Examinations

2. No candidate shall, during any examination:

(a) have in his or her possession any material other than material which the examiner for the subject concerned has specified may be taken into an examination room;
(b) provide assistance to, or communicate with, any other candidate unless expressly approved by the examiner;
(c) accept assistance from any candidate or other person unless such assistance has been expressly approved by the examiner;
(d) permit any other candidate to read, copy from, or use his or her examination question or answer paper, unless expressly approved by the examiner;
(e) use any other material belonging to or written by another candidate or other person unless expressly approved by the examiner;
(f) by any means whatsoever, except as approved by the examiner, obtain, or endeavour to obtain, assistance in his or her work, or give, or endeavour to give, assistance to any other candidate;
(g) remove from the examination room any examination answer paper or other paper provided for use by the candidate during the course of the examination, or other material which is the property of the University unless permitted by the Examination Supervisor or examiner to remove it;
(h) contravene the Rules and Procedures for the Conduct of Examinations;
(i) cause any disturbance or be guilty of any conduct likely to disturb any other candidate; or
(j) be guilty of any other act of misconduct as defined in Section 3 of the Rules for Student Discipline.

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

Procedure

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

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

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

7. A candidate excluded from an examination room under clause 4 may appeal to the Vice-Chancellor under Section 10 of the Rules for Student Discipline.

8. The Vice-Principal (Administration) may refer a report pursuant to clause 4 to the Vice-Chancellor, in which event the reference shall be deemed to be a complaint pursuant to Section 12 of the Rules for Student Discipline and the Vice-Chancellor shall either:

(a) refer it to the Investigation Committee for investigation; or
(b) not proceed with it further should the Vice-Chancellor form the opinion that the complaint is unfounded or does not constitute misconduct.

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

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

Penalties

11. Should the Investigation Committee proceed pursuant to clause 8(a) with the report of an alleged breach of any provision of clause 2 and find the candidate guilty of the misconduct alleged against him or her, the Investigation Committee, in addition to recommending penalties set out in Section 27 of the Rules for Student Discipline:

(a) may recommend to the Vice-Chancellor that the candidate receive a zero mark;
(b) may recommend that the candidate be given the opportunity to sit a supplementary, special or other examination and to be assessed on that examination paper.

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

PART III - Assessment Work

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

14. Any assessment work submitted by a candidate must be in accordance with Course Rule 010 (3) which requires that such work must be the work of the candidate and not have been submitted for assessment elsewhere unless otherwise approved; if any material which is not entirely the work of the candidate is used, in whole or in part, fully documented reference to such material must be made.

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

PART IV – Rules and Procedures for the Conduct of Examinations

16. (a) A candidate must obey any instruction given by an Examination Supervisor for the proper conduct of an examination.
(b) A candidate must produce the student identification card for identification purposes for each examination. Should a candidate fail to do so, the candidate may be refused admission to the examination room. A candidate wearing a veil must remove it for identification purposes; on request by the candidate this may be done in private before a female Examination Supervisor.
(c) A candidate should be in place in the examination room not less than ten (10) minutes before the time specified for the commencement of the examination.
2. Such dictionaries may be used only by a candidate during the
next page for more details.

1. Background
These guidelines set down the current policy in relation to:
• the handling of requests for special consideration; and
• the granting of supplementary examinations.

2. Purpose of the Guidelines
The purpose of the guidelines is to bring a measure of equity and
consistency into the handling of special consideration requests
across the campus.

3. What is special consideration?
A student who is affected by serious illness or other
circumstances beyond his or her control may ask that those
circumstances be taken into account when performance in an
individual subject is being assessed, so that those
circumstances do not adversely affect the student's result in the
subject.

Special consideration may mean that:

(a) a student's result is reconsidered without any additional work
required; or
(b) the student must submit additional written work and/or sit for a
supplementary examination.

4. Eligibility
A student who can satisfy the University that he or she has:

(a) suffered serious illness or other circumstances beyond his or her
control which have or are likely to affect his or her academic
performance in a subject; or
(b) been prevented from meeting scheduled assessment
requirements by serious illness or other circumstances beyond
his or her control;

may apply for special consideration, including supplementary
assessment.

Special consideration may lead to the University requiring the
student to submit additional work, or to sit for a supplementary
examination, or both.

5. Method of application
A written application, together with supporting documentation,
must be lodged normally no later than 7 days following serious
illness or other cause beyond his or her control, with the Student
Enquiries Office, which will be responsible for transmitting the
request to the appropriate Academic Units.

It is the responsibility of the applicant to check the outcome
with the relevant Academic Unit as soon as possible, but not
later than two weeks after lodging the application.

SPECIAL CONSIDERATION AND SUPPLEMENTARY
EXAMINATIONS

Identification Cards (Examinations)

Students are required to have their identification cards available for
each examination for identification purposes.

Special Examinations
Students who believe that their attendance at or performance in an
examination or assignment has been affected by illness or other
cause beyond their control are required to make a written
statement to the Vice-Principal (Administration). This statement,
together with any supporting evidence, will be considered by the
Academic Unit Head who has the authority to take whatever action
may be determined in accordance with the Rules for Student
Discipline or Examination and Assessment Rules.

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

Smoking is not permitted in the examination room.

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

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Examinations

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supplementary examination.

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A student who can satisfy the University that he or she has:

(a) suffered serious illness or other circumstances beyond his or her
control which have or are likely to affect his or her academic
performance in a subject; or
(b) been prevented from meeting scheduled assessment
requirements by serious illness or other circumstances beyond
his or her control;

may apply for special consideration, including supplementary
assessment.

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student to submit additional work, or to sit for a supplementary
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A written application, together with supporting documentation,
must be lodged normally no later than 7 days following serious
illness or other cause beyond his or her control, with the Student
Enquiries Office, which will be responsible for transmitting the
request to the appropriate Academic Units.

It is the responsibility of the applicant to check the outcome
with the relevant Academic Unit as soon as possible, but not
later than two weeks after lodging the application.
6. "Supporting documentation" means:

(a) a medical certificate, stating in reasonable detail:
   (i) the date or dates of any relevant consultations or attendances;
   (ii) if relevant, the general nature of the complaint and the treatment; and
   (iii) a specific statement of the opinion that, as a result of the complaint or treatment, the student is or was unfit to complete the required assessment or examination on or by the date specified; (medical certificates which do not contain all this information will not be accepted); or

(b) a letter from the University Counselling Service or a professional counsellor or equivalent standing setting out the general nature of the problem affecting the student, and the opinion of the person signing the letter, that the student, because of the problem, is or was unfit to complete the required assessment or examination on or by the date specified; or

(c) a statutory declaration setting out the facts upon which it is suggested that special consideration should be given, attaching any supporting documents.

A letter from an employer, etc, is not sufficient.

7. Acceptable reasons

The following are considered acceptable reasons for special consideration:

(a) valid medical, compassionate and serious unforeseen personal events that prevent a student from meeting scheduled assessment deadlines; or

(b) validated conflicts between scheduled assessments and sporting, cultural or other activities at a national or international level, so long as the conflicts are raised well in advance with the relevant Academic Unit.

8. Reasons associated with employment are acceptable only in exceptional circumstances.

9. Processing of applications

The decision to accept or reject an application for special consideration in each subject is to be made by:

(a) the Head of Department concerned or a member of the academic staff of the Department designated by the Head for the purpose; or

(b) the Departmental Assessment Committee; or

(c) in a Faculty not made up of separate Academic Units, the Associate Dean, on the advice of the examiners for the subject or course co-ordinator, and/or year director, as appropriate.

10. Basis for granting special consideration

The decision whether or not to grant special consideration must be based on whether or not the circumstances amount to serious illness or circumstances beyond the student's control which have affected or may affect the student's performance in the subject. Without limiting the matters that may be considered, the person making the decision may consider:

(a) the possibility, based on the student's performance in other aspects of work required for the subject, of the student achieving at least a PCPFT grade in the subject;

(b) the record of the student in other subjects in which the student is or has previously been enrolled; and

(c) previous applications for special consideration.

11. Supplementary examinations

(a) Early examination/assessment will not be permitted by any Academic Unit on the grounds of lengthening the period available to the student for holidays/sightseeing.

(b) Illness or other grounds beyond the student's control.

Supplementary examinations will normally be granted only:

(i) if the student did not sit the standard examination for an acceptable reason; or

(ii) if the student, after reporting the illness to the Supervisor-in-Charge, left the examination room because of verified illness.

Reasons such as sleeping in, misreading timetables, work commitments, last subject required to complete a course, etc are normally not acceptable.

(c) Religious reasons

Where a student is unable to sit for the standard examination for religious reasons, that student will normally be permitted to sit for either

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

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

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

  • sits for the examination as soon as possible after the scheduled examination time.

12. Decision

The decision whether or not to grant a supplementary examination must be made within seven days of receiving the application and the student advised in writing as soon as possible.

13. Timing of Supplementary Assessment

Supplementary assessment is to be completed at a time convenient to the Academic Unit concerned and it is the responsibility of the applicant to comply with the requirements of the unit; however, the results must be declared within the normal period allowed for the "WM" result as initially within a period of five weeks after the Examination Committee meeting or, in exceptional circumstances, a further five weeks after that period.

14. Responsibility

It is the responsibility of each student who applies for a supplementary examination:

(a) to be available to sit for the examination at any time during the vacation period immediately following the application; and

(b) to leave a contact address and telephone number with each relevant Academic Unit.

15. Form of Supplementary Assessment

This can take any form that is appropriate in the circumstances. However, the student must be informed in advance concerning the method of assessment to be used, particularly if there is to be any departure from the format announced at the start of the subject, or from that used in the standard examination. This information must be conveyed to the student in writing. Faculties or Academic Units may determine that SUPPLEMENTARY EXAMINATIONS MAY BE ORAL, but should notify students in advance if this is the case. Students must accept the form of supplementary assessment determined by the Academic Unit.

16. Where a written examination is conducted, Academic Units will ensure that, so far as possible, the security procedures and the venue for the examination, are as similar as possible to those followed in the standard examination periods.

17. Where an oral examination is conducted, a second staff member should be present during the examination.

18. Students should keep originals and copies of all essays, assignments or reports submitted in any subject, as special consideration may involve the reconsideration of that work, and they must be prepared to resubmit such work immediately upon request.
19. Appeal
A student whose request for special consideration has been rejected may appeal in writing to the relevant Dean within 21 days of the giving of the decision by the Academic Unit.

PASS TERMINATING
The award of the grade of Pass Terminating will prohibit a student progressing to the next subject in a sequence for which the subject in which the Pass Terminating is awarded is a pre-requisite. However, students are not prevented from repeating a subject for which a Pass Terminating has been awarded.

APPLICATION FOR AN ACADEMIC AWARD
Applications for admission to a degree, diploma or associate diploma must be made on the appropriate form and by the due date for each session. It is the student's responsibility to make an application to have an award conferred.

AMENDMENTS TO ACADEMIC RECORDS, REASSESSMENT OF GRADES
There are three ways in which you may apply to have your academic record amended:

1. Enrolment Error
If, as a result of an enrolment error, you have either:
(a) received a 'FAIL' grade for a subject for which you were formally enrolled, but did not attempt; or
(b) not received a result for a subject which you attempted, but for which you were not formally enrolled; you may make application to have the necessary amendment made to your academic record. Applications must also be accompanied by a letter giving relevant details.

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

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

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

2. Late Withdrawal
If you withdraw from:
(a) an Autumn session subject or a Spring session subject after the end of the eighth week but before the end of the twelfth week of the session of offer; or
(b) a Summer session subject after the end of the third week but before the end of the fifth week of the Summer session; or
(c) a double or triple session subject after the end of the second week but before the end of the eighth week of the second session in which the subject is offered;
you will be awarded a grade of 'FAIL'. However, if there are medical, compassionate or other acceptable reasons for the late withdrawal, the Course Rules allow for you to apply to have the 'FAIL' amended to 'DISCONTINUED'.

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

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

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

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

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

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

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

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

CAMPUS ACCESS AND ORDER

PART I - PRELIMINARY

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

2. Commencement
These Rules came into operation in this form on 11 August 1989. The Rules incorporate the "Rules for the Control of Motor Vehicles Entering the Grounds of the University of Wollongong", previously approved by Council in 1985.

3. Parts
The Rules are divided into three parts, as follows:

PART I - Preliminary
PART II - Access to and Order on the Campus
PART III - Traffic and Parking Control

4. Interpretation
In these Rules, unless the contrary intention appears:

(i) "Campus" includes any land which, for the time being, is the property of the University of Wollongong or in its possession or under its control, together with any building or other erection or construction of any kind whatsoever, whether permanent or temporary, standing on or affixed to such land or any part thereof;

(ii) "Vehicles" means all motor vehicles and includes motor cycles, but excludes motorised wheelchairs;

(iii) "Permits" means Category 1, Category 2, Disabled, Motor Cycles, Additional and Daily Permits issued in accordance with these Rules;

(iv) "Authorised Persons" means the Vice-Chancellor and Principal, the Vice-Principal (Administration), the University Librarian, members of the University Security Staff and senior members of...
4. Authority Cards

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

5. Authorised Persons

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

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

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

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

6. Members of the Police Forces

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

7. Animals on Campus

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

8. Disorderly Conduct

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

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

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

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

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

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

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

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

Where any disorderly conduct under section (6), occurs and the person or organisation responsible can be identified, the University may take steps to recover the cost of any repairs to property or the cost of removal of offending material in addition to any disciplinary action that may be taken under the University's Discipline Rules.
9. Complaints of Alleged Disorderly Conduct
Any complaints alleging disorderly conduct against any person may be brought in writing, by an authorised person or by a student or staff member to the Vice-Principal (Administration) who shall forward the complaint to the Vice-Chancellor and Principal; if the Vice-Chancellor and Principal deems that the matter requires any action to be taken, the matter may be dealt with as misconduct in accordance with the appropriate University Rules and authorities.

PART III - TRAFFIC AND PARKING CONTROL

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

2. Definitions
See definitions set out in PART I, Section 4 of these Rules under the heading of "Interpretation".

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

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

(iii) All persons having access to the University campus, whether or not in charge of a vehicle, shall conduct themselves and/or use their vehicles in a safe and proper manner at all times in accordance with the Occupational Health and Safety Act 1983.

4. Driving Rules
(i) All vehicles shall observe a speed limit of 25 k.p.h. on University roads and 15 k.p.h. in parking areas.

(ii) No vehicle shall park or stop on any road or place not specifically marked or sign posted for parking or stopping, except for a period sufficient to set down and/or pick up passengers.

(iii) Vehicles and bicycles shall at all times give way to pedestrians.

(iv) Vehicles and bicycles shall at all times comply with all road markings, signs and the directions of authorised persons.

(v) Except where these Rules provide to the contrary the normal rules of the road applicable in New South Wales shall apply to vehicles and bicycles on the campus.

5. Parking Rules
(i) No vehicle or bicycle shall park on the campus otherwise than in accordance with these Rules.

(ii) Vehicles issued with a Category 1 Permit in accordance with these Rules may park in the areas designated for Category 1 (red) and/or Category 2 (blue) parking.

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

(iv) Vehicles issued with a Daily Permit may park in Category 1 areas only and vehicles with a Regular Visitor Permit may park in Category 1 or Category 2 areas.

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

(vi) All vehicles shall be parked within the lines designating parking spaces and shall at all times be parked in such a way that no obstruction is caused to the University roadways, or car park access lanes.

(vii) Bicycles may only be parked in areas where appropriate stands have been provided by the University; in addition to any penalty that may be imposed, bicycles not parked in these areas may be impounded by authorised persons.

6. Permits
(i) A special Category of transferable "reserved parking" permit is available. All other Permits are not transferable, and are issued to the vehicle not the person.

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

(iii) Any student or staff member may apply for a Motor Cycle Parking Permit, Reserved Parking Permit, Category 1 Permit or Category 2 Permit in writing to the Vice Principal, Administration.

(iv) Any Category 1 Permit holder who has occasion to make regular use of more than one vehicle for transport to and from the campus may make application for the issue of an additional parking Permit to be used on a nominated vehicle which is shown to be owned by the applicant or the applicant's family. Only one additional permit is allowable and an applicant for an additional permit must sign an undertaking that no more than one ('1') of the nominated vehicles shall be parked on the campus at any one time unless there are exceptional circumstances.

(v) Upon proof of loss, destruction or damage to any current Parking Permit, and upon payment of the prescribed fee, a replacement shall be issued.

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

(vii) Annual Parking Permits shall expire on the first day of Autumn Session in the year following issue.

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

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

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

(xi) All Parking Permits issued in accordance with these Rules (excepting Reserved Parking Permits, Daily Parking Permits and Regular Visitor Permits) shall be affixed to the motor vehicle windscreen so as not to obstruct the driver's vision, or elsewhere prominently displayed on a motor cycle, in the way that registration labels are required to be affixed.

All fees paid under these Rules are non-refundable.

7. Penalties for Parking Infringements
(i) The penalty for parking in a Disabled space or areas sign posted as 'hazardous' eg. Safety Hazard, No Parking, is $40.00 on each occasion. No discounting will apply.

The penalty for infringement of any other of the parking rules is $20.00 on each occasion, the amount being halved if paid within 3 full working days.

Blatant or persistent infringements may result in the offending vehicle being wheel clamped. To obtain release of the vehicle a payment of $50.00 is required. The release of an impounded bicycle will require the payment of $5.00.

(ii) Notice of an infringement shall be given by:

(a) leaving a notice in a prominent position on the infringing vehicle or bicycle; or
1. Category: 'R' "Reserved Spaces"
   Single payment of $600 if paid in full by January 31st, otherwise $620 - p.a. or $24 per fortnight by salary deduction. Available in Multi-Storey Car Park. Full details available from Office Services in Administration, extension 3219/3916.

2. Category 1
   Single payment of $130 or $5.50 per fortnight via salary deduction or a single payment of $65 for Spring Session 1993 only. Permit, but do not guarantee, parking in any of the University's car parks but not in spaces reserved for Departments, individuals, the Disabled etc. A single additional Category 1 Permit may be purchased for $10 where an applicant shows evidence of the ownership of an additional vehicle and the applicant certifies that only in exceptional circumstances will more than one vehicle be brought into the campus at any one time.

3. Category 2
   Single payment of $75 or 2 x $37.50 - for Autumn and Spring Sessions separately. Autumn Permit valid until 19 July and Spring Permit from 6 July until 1 March 1993. Permit, but do not guarantee, parking in the 'Blue' car parks generally located in the Western part of campus during the hours 8.00 am to 4.30 pm Monday to Friday and in any car park outside these hours but not in spaces reserved for Departments, Individuals, The Disabled etc.

4. Daily Permit
   $3.00 per day
   Provides access to spaces in all car parks but not those reserved for Departments, or individuals, the disabled etc.

5. Regular Visitor Permit
   Single payment of $20.00
   Provides access to all car parks but not those reserved for Departments, or individuals, the disabled etc.

Must be authorised by Vice-Principal (Administration).

6. Disabled Permit
   Single payment of $50

Permanently Disabled persons will be issued with a special Permit authorising the use of Disabled Parking Spaces.

7. Motor Cycles
   Single payment of $20.00
   Provides access to all Motor Cycles parking areas.

8. Bicycles
   No Charge
   Bicycle racks are located throughout campus. Additional racks will be installed where need is proven. Parking outside the racks will be actively discouraged, and is covered by the University's parking rules.

9. Replacement Permit
   A replacement permit will be issued for a fee of $10.00 where evidence is shown that the original permit has been destroyed or the original vehicle has been disposed of and evidence is produced that the original permit was removed prior to disposal.

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

**CODE OF CONDUCT - LIBRARY**

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

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

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

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

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

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

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

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

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

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

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

7. Animals, with the exception of guide dogs for the visually and hearing impaired, are not permitted within the University Library.
In these Rules, unless the context or subject matter otherwise indicates or requires:

"Act" refers to the University of Wollongong Act, 1989;

"Committee of Appeal" means the Committee of Appeal constituted under Rule 41;

"Council" means the Council of the University of Wollongong;

"Investigation Committee" means the Investigation Committee constituted under Rule 24;

"misconduct" means conduct on the part of a student which:

(a) breaches the University By-law or the Rules made in accordance with that By-law or any Resolutions of Council or is deemed or stated to be misconduct under the By-law, Rules or Resolutions; or

(b) constitutes a serious impediment to the carrying out of the University’s functions, including those academic and administrative functions which are properly ancillary to those set out in Section 6 of the Act or which relate to the participation by any person in the activities of the University; or

(c) is otherwise detrimental to the proper conduct of the University.

“senior officer” means a person holding the position of Deputy Vice-Chancellor, Pro Vice-Chancellor, Vice-Principal, Dean, Head of a Department or School, Manager or Director of an Administrative Branch, University Librarian, Director of Information Technology Services or such other positions as Council may from time to time by resolution determine;

"student" means a person enrolled at the University or in any course or program offered in conjunction with the University.

Introduction

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

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

Emergency Provisions

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

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

(8) The Director of Information Technology Services, or in his/her absence the Manager, Facilities and Technical Services, in cases where the misconduct or breach is so serious to warrant it, may exclude any student from using, or restrict the use by the student of, any Library facilities as may be in force from time to time.

(9) Any action taken under Rules (5), (7) or (8) shall be reported in writing forthwith to the Vice-Chancellor or in his/her absence the Deputy Vice-Chancellor who may confirm, vary, quash or postpone the exclusion or restriction, as appropriate, if he/she thinks fit; a copy of the report shall be forwarded to the student by the person taking the action under Rules (5), (7) or (8).

(10) Where conduct on campus or University-managed premises occasions the intervention of outside legal agencies, resulting in charges being laid or other action taken, that intervention of itself is sufficient for the Vice-Chancellor to take appropriate action including suspension of any student from the University.

(11) Where the Vice-Chancellor takes action pursuant to (10), notice of this action shall be given to the student affected who may then request the Vice-Chancellor to refer the case to the Investigation Committee under the provisions of clauses (20), (21) and (22).

(12) Any student excluded or restricted from using the Library or from attendance at examinations or from using the computing facilities...
pursuant to Rules (6), (7) or (8) respectively may make an immediate oral appeal to the Vice-Chancellor or in his/her absence to the Deputy Vice-Chancellor who, without prejudice to any action subsequently taken under Rule (9), may confirm, vary, quash or postpone that exclusion or restriction, as appropriate, if he/she thinks fit.

(13) Any student excluded or restricted from using the Library or from attendance at examinations or from using the computing facilities pursuant to Rules (6), (7) or (8) respectively may, within 14 days of that action being taken, make a written appeal to the Vice-Chancellor who, notwithstanding any action he/she may have taken under Rule (9), may confirm, vary quash or postpone the action or refer the matter for investigation to the Investigation Committee.

Bringing of Complaint

(14) Complaints may be brought by a senior officer against any student for alleged misconduct. The complaint shall be in writing addressed to the Vice-Chancellor and shall give full details of the alleged misconduct.

(15) The Vice-Chancellor, on receiving the complaint, shall within 14 days of receipt of the complaint or such further period not exceeding 28 days as he/she thinks fit, bring an allegation of misconduct against that student by referring the complaint in writing to the Investigation Committee for investigation unless the Vice-Chancellor forms the opinion that the complaint is unfounded or that the matters complained of do not constitute misconduct.

(16) The Vice-Chancellor may, of his/her own motion, bring an allegation of misconduct against a student by referring a complaint in writing to the Investigation Committee for investigation.

Immediate Action by Vice-Chancellor

(17) Notwithstanding any other provision of these Rules, if, in the opinion of the Vice-Chancellor, the circumstances referred to in Rules (6), (7) or (8) or the subject of the complaint brought under Rules (14) or (16) are such that immediate or further action is required, the Vice-Chancellor may:

- suspend a student from the University; or
- exclude the student from, or restrict the use by the student of, any Library facilities, or
- exclude the student from attendance at any examinations and/or withhold the examination result(s) for relevant subject(s); or
- exclude the student from using, or restrict the use by the student of, any computing facilities;

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

(18) Any action taken by the Vice-Chancellor in accordance with Rule (17) shall be conveyed in writing to the student by the Vice-Chancellor or the Acting Principal (Administration).

(19) Upon being informed by the Vice-Principal (Administration) of any action taken under Rule (17) the student shall cease to attend the University or to enter the Library or to attend examinations or to use the computing facilities as the case may be and, if so directed by the Vice-Chancellor, shall refrain from entering on any premises of the University.

Referral to Investigation Committee

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

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

(22) The Vice-Chancellor's reference to the Investigation Committee shall set out a full statement of the alleged misconduct but the Vice-Chancellor shall not be obliged to include a copy of the original complaint.

(23) If the matter referred to the Investigation Committee by the Vice-Chancellor relates to a breach of the Examination Rules, the Vice-Chancellor may withhold the examination result(s) for the relevant subject(s) pending the outcome of the investigation by the Investigation Committee.

Investigation Committee

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

(25) The Investigation Committee shall consist of:

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

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

and

- where both genders are not represented on the Committee, the Vice-Chancellor shall appoint a member of the appropriate group to redress this situation.

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

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

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

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

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

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

(32) The Investigation Committee may, in accordance with its findings under Rule 24, recommend to the Vice-Chancellor:
(a) that the allegations be dismissed;
(b) that no further action be taken against the student concerned;
(c) that the student be reprimanded by the Vice-Chancellor;
(d)(i) that the student be fined and, in the event of multiple instances of misconduct, multiple fines may be applied; the fine for each instance shall not exceed $250. (NB - refer to (h) below)
(ii) in addition, where the misconduct is related to a breach of Examination Rules, that the student be awarded a Fail grade for the relevant subject(s);
(e) that the student be suspended from the University for a limited period and in addition, where the misconduct is related to a breach of Examination Rules, the Committee may recommend that the student be awarded a Fail grade for the subject(s); or
(f) that the student be expelled from the University and in addition, where the misconduct is related to a breach of Examination Rules, the Committee may recommend that the student be awarded a Fail grade for the subject(s); or
(g) such other penalty as the Committee may deem appropriate in the particular instance of misconduct;
(h) and, in cases of damage to University property or any other action incurring a cost to the University, that, in addition to any penalty recommended above, the student may be charged for the costs incurred in replacing or repairing the property or in redressing any other results of the misconduct.
In recommending a penalty under clauses (c) to (h) above, the Committee may further recommend that the imposition of the penalty be suspended under whatever conditions and for whatever period of time the Committee deems appropriate to the particular circumstances of the complaint. 

Result of Investigation

(33) On receipt of the recommendation of the Investigation Committee, the Vice-Chancellor may refer the recommendation back to the Committee for further consideration or, in accordance with the recommendations dismiss the allegations, take no further action, reprimand, fine, suspend or expel the student; in addition to fining, suspending or expelling the student, the Vice-Chancellor may (a) award a Fail grade for the relevant subject(s) where the misconduct is related to a breach of Examination Rules; and/or (b) charge the costs of replacing or repairing any damaged property.

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

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

Appeal

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

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

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

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

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

Committee of Appeal

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

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

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

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

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

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

Result of Appeal

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

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

Ceases to hold office

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

Inability to act

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

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

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

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

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

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

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

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

(g) where the conduct of any person interferes with any other person's right to be heard, be entitled to remove that person from the meeting and to hear their evidence separately;

(h) permit the student to nominate witnesses to appear in support of his/her defence against the complaint;

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

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

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

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

THE USE OF UNIVERSITY COMPUTING FACILITIES

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

1. In these rules:

(a) "University" means the University of Wollongong;

(b) "computer facilities" refers to:

(i) all networking services, computer equipment and software, owned, leased or used under licence by the University including the University's administrative computer system;

(ii) computer facilities maintained by other bodies but available for use through an agreement or agreements with the University; and

(iii) all other computing facilities wherever situated where access is by means of University provided services;

(c) "computer user" means any person using the computer facilities.

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

3. Each computer account is assigned to one computer user only and is to be used solely for those purposes authorised by that user's head of department/school/branch. The individual is responsible for the proper use of the computer account. Including following recommended procedure for password protection.

Access to information is provided on a confidential basis and that confidentiality is to be respected. Where access to facilities (including the Library catalogue and many microcomputers) is provided without a formal account and/or password then the provisions of these rules still apply.

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

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

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

7. Computing hardware may be connected to the University's networking facilities only after approval by the Director of Information Technology Services or a nominee.

8. The University reserves the right to upgrade any of its computer facilities, as required, in the manner determined by its officers. Upgrades requiring substantial changes to user procedures will be announced at least 30 days before they are to take effect.

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

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

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

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

13. Abuse of any networks or computing facilities at other sites or connected to the networks will be treated as abuse of computer privileges at the University of Wollongong.

An individual's computer access privileges may be suspended immediately upon the discovery of a possible violation of these rules. Such suspected violations will be confidentially reported to the appropriate faculty, supervisors, department heads, Information Technology Services staff and Computing Policy Committee members.

The Information Technology Services staff or supervising department/school/branch head will judge an offence as either major or minor. A first minor offence will normally be dealt with by Information Technology Services administrative staff or supervising department/school/branch head, and may involve withdrawal of computer access privileges for a period up to one month. Additional offences will be regarded as major offences. Appeals relating to minor offences may be made to the ITS Directorate. Major offences will be dealt with under the University's Student or Staff Discipline Procedures.

Violations of these rules will be dealt with in the same manner as violations of other University rules and may result in disciplinary review. In such a review, the full range of disciplinary sanctions is available, including the loss of computer access privileges, charging for all use at full commercial rates, dismissal from the University, and legal action. Violation of some of the above rules may constitute a criminal offence.

The provisions of these rules will apply in all cases except where a specific contractual agreement has been entered into between the University and a user, in which case any exceptions to the rules will be explicitly noted in the contract.
The University has Codes of Practice which govern the conduct of its members, both staff and students.

The current codes are:

1. Research
2. Students
3. Supervision
4. Teaching and Assessment

The codes for Research and Supervision are shown below. The Codes for Students and Teaching & Assessment are presented in the Undergraduate Calendar.

CODE OF PRACTICE - RESEARCH

INTRODUCTION

The Code of Practice - Research sets out the current policy and best practice relating to procedures for responsible practices in research and dealing with problems of research misconduct. The Code and associated reporting requirements for publication of research results applies to all research undertaken at the University of Wollongong. The Code was compiled in consultation with the University Research Committee and has been endorsed by the Academic Senate. The University of Wollongong acknowledges the guidelines provided by the AVCC and the NH & MRC in the original drafting of this document.

THE CODE

This Code sets out a Code of Conduct for the Responsible Practice of Research. Research and the pursuit of knowledge are vital institutional functions. The broad principles that guide research have long been established. Central to these are the maintenance of high ethical standards, and validity and accuracy in the collection and reporting of data. The responsibility of the research community to the public and to itself is acknowledged.

Communication between collaborators; maintenance and reference to records; presentation and discussion of work at scholarly meetings; publication of results, including the important element of peer refereeing; and the possibility that investigations will be repeated or extended by other researchers, all contribute to the intrinsically self-correcting nature of research.

Competition in research can have a strong and positive influence, enhancing the quality and immediacy of the work produced. However, competitive pressures can act to distort sound research practice, encouraging misconduct such as:

- the fabrication and/or falsification of data, including changing records;
- plagiarism; and
- misleading ascription of authorship.

It may also encourage the premature release of research results before they are adequately validated and the division of reports on substantial bodies of work into multiple small reports to enhance the "publication count" of the author(s).

ADVICE ON INTEGRITY IN RESEARCH

A member of staff or student should in the first instance contact the Pro Vice-Chancellor (Research) if he/she requires confidential advice about what constitutes misconduct in research, the rights and responsibilities of a potential complainant, and the procedures for dealing with allegations of research misconduct within the institution. The University has nominated a group of people who are familiar with the literature and guidelines on research misconduct to be advisers on integrity in research.

CODE OF CONDUCT FOR THE RESPONSIBLE PRACTICE OF RESEARCH

General Ethical Considerations

- It is a basic assumption of institutions conducting research that their staff members are committed to high standards of professional conduct. Research workers have a duty to ensure that their work enhances the good name of the institution and the profession to which they belong.

- Research workers should only participate in work which conforms to accepted ethical standards and which they are competent to perform. When in doubt they should seek assistance with their research from their colleagues or others. Debate on, and criticism of, research work are essential parts of the research process.

- Institutions and research workers have a responsibility to ensure the safety of all those associated with the research. It is also essential that the design of projects takes account of any relevant ethical guidelines.

- If data of a confidential nature are obtained, for example from individual patient records or certain questionnaires, confidentiality must be observed and research workers must not use such information for their own personal advantage or that of a third party. In general, however, research results and methods should be open to scrutiny by colleagues within the institution and, through appropriate publication, by the profession at large.

- Secrecy may be necessary for a limited period in the case of contracted research.

Specific matters

(a) Retention of Data

- Data must be recorded in a durable and appropriately referenced form.

- Wherever possible, a copy of the original data should be retained in the department or research unit in which they were generated.

- There may be cases where retention of original data may be difficult, such as:
  - a large volume of source material; in these cases source material should be clearly referenced in any published material; or
  - data obtained from limited access databases or in a contracted project, in such cases a written indication of the location of the original data or key information regarding the limited access database from which it was extracted must be kept in the department or research unit.

- If at all possible, it is in the interests of all research workers to ensure that original data are safely held for periods of at least five years.
(b) Publication and Authorship

- No unpublished research results should be published by others without the agreement of all the researchers concerned.
- Where there is more than one author of a publication, one author (by agreement among the authors) should formally accept overall responsibility for coordinating the submission and revision of the manuscript. Such formal acceptance must be in writing and kept on file in the department or unit of that author together with the names of all other authors.
- The authors of the publication must read the final paper and sign a statement (see Attachment C) indicating that each of them has met the minimum requirements for authorship - as defined on Attachment C - and who is the author taking overall coordinating responsibility for the publication. If, for any reason, one or more co-authors is unable to sign the statement, the head of the research unit or department may sign on his/her behalf, noting the reason for his/her non-availability.
- The coordinating author must keep the signed statement in his/her possession and submit a copy for retention in the department or unit when the work is accepted for publication.
- Where possible, it would be wise for papers submitted for publication to be read by a staff member outside the immediate group. This helps to ensure that the paper readily communicates its findings and major conclusions. It is, in any event, good practice to encourage discussion between members of different research groups.
- The minimum requirement for authorship of a publication should be participation in conceiving, executing or interpreting at least part of the research reported. "Honorary authorship" is unacceptable. "Honorary author-ship" occurs when a person is listed as an author of a publication when they have not participated in any substantial way in the conception, execution or interpretation of at least part of the work described in the publication.
- Due recognition of all participants is a part of a proper research process. Authors should ensure that the work of research students/trainees, research assistants and technical officers is properly acknowledged.
- Publication of multiple papers based on the same set(s) or sub-set(s) of data is improper unless there is full cross-referencing (for example, by reference to a preliminary publication at the time of publication of the complete work which grew from it). Simultaneous submission to more than one journal or publisher of material based on the same set(s) or sub-set(s) of data should be disclosed at the time of submission.

(c) The Role of Research Supervisors

- Members of the academic staff of the University (other than those who are themselves candidates for higher degrees) who are currently active researchers, who have proven research records and who have previous experience in supervision may be permitted to be sole supervisors of candidates for higher degrees. In the case of newer, less experienced members of staff, a co-supervisor, who will be a more experienced and, generally, more senior member of staff, will also be appointed. Staff whose previous supervisory experience has been less than satisfactory will not be appointed as sole supervisors.
- The ratio of research students/trainees to supervisors should be small enough to ensure effective interaction, as well as effective supervision of the research at all stages.
- As part of the formal Department induction procedures research supervisors should advise each research student/trainee of applicable government and institutional guidelines for the conduct of research, including those ethical requirements for studies on human or animal subjects, and requirements for the use of potentially hazardous agents.
- Research supervisors should be the primary source of guidance to research students/trainees in all matters of sound research practice.
- As far as possible, research supervisors should ensure that the work submitted by research students/trainees is their own and that, where there are data, they are valid.
- Where possible, the head of the research unit should be personally involved in active research supervision and observe the research activities of those for whom he or she is responsible. Professional relationships should be encouraged at all times. In particular, there should be wide discussion of the work of all individuals by their peers.

(d) Disclosure of Potential Conflict of Interest

Disclosure of any potential conflict of interest is essential for the responsible conduct of research. The formal written disclosure of such interests will be to: the Pro Vice-Chancellor (Research), the editors of journals to which papers are submitted, and to bodies from which funds are sought.

(e) Special needs in different disciplines

In some disciplines there will be special areas which require regulation, for example the handling of hazardous materials. The rules for this activity should form part of the general code of ethics for each discipline.

MISCONDUCT

Misconduct in research includes:

- the fabrication of data; that is, claiming results where none has been obtained.
- the falsification of data, including changing records.
- plagiarism, including the direct copying of textual material, the use of other people's data without acknowledgment and the use of ideas from other people without adequate attribution.
- misleading ascription of authorship including the listing of authors without their permission, attributing work to others who have not in fact contributed to the research, and the lack of appropriate acknowledgment of work produced by others involved in the research, such as a research student/trainee or associate.

The list above is not meant to be all inclusive. There may be other misdemeanours. For example, in human or animal experimentation departing from approved protocols accepted by a specific discipline might constitute misconduct. Misconduct does not include honest errors or honest differences in interpretation or judgement of data.

Procedures for Dealing with Allegations of Misconduct

A working party of the University Research Committee is at present working on an additional section on how to deal with allegations in establishing a prima facie case, as the disciplinary conditions can only come into play after this.

This Code of Conduct for the Responsible Practice of Research aims to ensure a research environment that minimises the incidence of misconduct in research. It is inevitable, however, that there will be some allegations of misconduct. The procedures to cover the situation where allegations of misconduct are made against a staff member at the University of Wollongong are covered in the Management Handbook, under Rules for Staff Discipline.

CODE OF PRACTICE - SUPERVISION

1. HIGHER DEGREES

The following broad definitions apply to Doctoral degrees and to Masters degrees by research. Most elements will be applicable to other degrees with a significant research thesis component; some aspects of monitoring also apply to postgraduate course-work degrees.
1.1 Definitions

The desirable end-point for research degrees is sometimes difficult to judge, especially for a student. The decision of when to stop and to commence writing, will be facilitated for students of the University of Wollongong by the following definitions since they make clear the expectations of the University for particular research degrees.

These definitions make clear that research may not be "finished" within the time specified for a candidature, but that what is done must be good: it is possible to envisage, for example, that a degree could be awarded to a student whose work was impeccable but whose ambitious attempt to map in detail the coastline of New South Wales got no further north than Wollongong in the allotted time.

1.1.1 Masters by research

These degrees generally have the objective of training candidates in research methodology appropriate to their field of study, and in the application of such methodology by conducting a specified program of research under appropriate supervision.

Examiners of a Masters thesis should satisfy themselves that the candidate: has a thorough understanding of the relevant techniques in the field demonstrated both by their application and a thorough review of the literature; has managed to demonstrate competence in the chosen field through judicious selection and application of methodology to yield fruitful results; and has the capacity to present well written work.

1.1.2 Doctor of Philosophy

This degree provides training and higher education with the objective of producing graduates with the capacity to conduct research independently at the highest level of originality and quality. Students ought to be capable, by the end of their candidatures, of conceiving, designing and carrying to completion a research program without supervision. The PhD is thus largely scholarly in nature and should uncover new knowledge either by the discovery of new facts, the formulation of theories or the revision of old ideas.

Examiners will expect a thesis to be well written and to reveal clearly an independence of thought and approach and a deep knowledge of the field of study.

2. RESPONSIBILITIES

Research training at a University involves the active participation of both staff and candidates. The responsibility to ensure that it is conducted in the most efficient and effective manner is shared by all parties: the University, its Academic units and staff, and the candidates, all have obligations to each other.

The University will provide each candidate with a copy of the relevant policies at enrolment, including: a copy of this document; the information to be given to the candidate by the Academic unit; the Rules governing the appropriate degree; the Library rules; and the policy relating to intellectual property, as it affects candidates.

2.1 Responsibilities of the University

The University has the responsibility of establishing a policy framework within which Academic unit-specific policies can be developed. The University is responsible for general policies related to:

2.1.1 clearly specified minimum entry standards which apply regardless of discipline, and which are set to ensure that enrolling candidates are likely to have the capacity to succeed given adequate commitment;

2.1.2 access to space and resources which, while varying between different parts of the University, should be made clear to candidates at the outset;

2.1.3 the status of intellectual property arising from the work of candidates as part of their studies;

2.1.4 annual reporting requirements;

2.1.5 procedures by which either the candidate or the supervisor may make representations as appropriate should significant difficulties arise (grievance procedures);

2.1.6 a procedure which, while permitting inexperienced staff to supervise candidates, makes clear a process by which assistance may be sought should it be required;

2.1.7 clear guidelines for examiners outlining, in particular, the University's expectations for the particular degree

2.2 Responsibility of the Academic unit

It is the responsibility of the Academic unit to ensure that:

2.2.1 the candidate meets the minimum requirements set down by the University for admission to candidature;

2.2.2 the proposed research project is appropriate for the degree;

2.2.3 the unit is the appropriate one for the research to be undertaken;

2.2.4 the proposed supervisor is sufficiently expert in the area of research and has the time to be able to offer the candidate proper supervision;

2.2.5 proper supervision can be provided and maintained throughout the research period;

2.2.6 appropriate opportunities are provided, by way of seminars and the like, for candidates to develop their presentational skills as well as facilitate their integration into a cohesive group.

2.3 Responsibilities of the Supervisor

The supervisor has responsibilities which include:

2.3.1 advising the candidate how to make the most effective use of research time; this will involve discussing the nature of research with the candidate and the standard expected of candidates enrolled in particular degrees, the choice of the research topic, the planning of the research program, the literature and sources and techniques;

2.3.2 identifying any shortcomings in a candidate's background and directing appropriate remedial studies when required;

2.3.3 maintaining close and regular contact with the candidate and establishing at the beginning the basis on which contact will be made; this will facilitate the supervisor's role in advising candidates on the rate of their progress, and ensuring that a reasonable timetable is set to permit the degree to be completed in the time limits set by the Rules;

2.3.4 requiring written work from the candidate on a pre-arranged and agreed schedule so that the development of the candidate can be assessed at regular intervals;

2.3.5 monitoring carefully the performance of the candidate relative to the standard required for the degree and ensuring that the candidate is made aware of inadequate progress or of work below the standard generally expected; supervisors should help with developing solutions to problems as they are identified;

2.3.6 using the annual reporting procedures established by the University as the minimum means by which any difficulties and problems discussed with the candidate during the year are noted; and supervisors should indicate the action taken or the advice given. If the problem is not resolved, the Head of the Academic unit, in the first instance, should be involved; the Head and the Chairperson of the Faculty Research Committee should be notified in writing of continuing problems between reporting periods;

2.3.7 commenting on the content and the drafts of the thesis and, at the time of submission, certify that the thesis is properly presented, conforms to the Rules and is, prima facie, worthy of examination;

2.3.8 advising the University Research Committee, through the Head, of the names and credentials of suitable examiners.
2.4 Responsibilities of the Candidate

The responsibilities of the candidate include:
2.4.1 becoming familiar with the University’s Rules governing the degree;
2.4.2 discussing with the supervisor the type of help considered most useful and keeping to an agreed schedule of meetings which will ensure regular contact;
2.4.3 undertaking appropriate remedial work identified by the supervisor;
2.4.4 taking the initiative in raising problems or difficulties and sharing responsibility for seeking solutions;
2.4.5 maintaining the progress of the work in accordance with the stages agreed with the supervisor, including in particular the presentation of any required written material in sufficient time to allow for comments and discussions before proceeding to the next stage;
2.4.6 providing annually a formal report to the University Research Committee through the Head and the Chairperson of the Faculty Postgraduate Studies Committee;
2.4.7 accepting the responsibility for the final copies of the thesis including the content and ensuring that it is in accord with the requirements for the preparation and submission of theses, including the standard of presentation.

3. ADMISSION

The policy of the University is to the direct the majority of research students to work with academic staff who are part of the Research Programs that have been established in recent years. The aim of these Programs is to provide an environment, and infrastructure, for staff and students working in broadly related areas of research to work together as a means of using the University’s resources most effectively.

While the basic criteria for admission to a higher degree is the possession a bachelors degree achieved at a suitable standard in an appropriate discipline, other criteria will also be taken into account in assessing the eligibility of an applicant for admission. Such criteria include: the feasibility and appropriateness of the proposed course of study in the Academic unit; and the availability of supervision, adequate infrastructure and other resources. The University also places emphasis on investigating candidates’ interests and background and their match with resources and available expertise in assessing applications for admission.

Since part-time candidates often have other obligations, the criteria for these candidates will also include: availability for study and for interaction with the supervisor; level of motivation; evidence of maturity; and capacity to cope.

4. SUPERVISION

In general, all members of the academic staff of the University (other than those who are themselves candidates for higher degrees) who are currently active researchers, who have proven research records and who have previous experience in supervision will be permitted sole supervision of candidates for higher degrees. In the case of newer, less experienced members of staff, a co-supervisor, who will be a more experienced and, generally, more senior member of staff, will also be appointed. Staff whose previous supervisory experience has been less than satisfactory will not be appointed as sole supervisors.

Care should be exercised in the appointment of supervisors to ensure that the supervisor(s) are not engaged in assessing or supervising the research of students with whom they have a close personal relationship which could give rise to undue advantage or disadvantage. Potential supervisor(s) of a candidate are required to advise the Head of the unit of any such relationship.

The supervisor(s) will be responsible to the Head for the supervision of candidates in their charge.

4.1 Leave

4.1.1 Supervisors should ensure that candidates have accurate information about any planned, long, leave (or retirement) during the candidature and about the arrangements to be made to provide for supervision during absences.

4.2 Co-supervision

4.2.1 Co-supervisors should generally be appointed at the outset of the program, particularly if any lengthy absences of the supervisor are planned or if expertise additional to that provided by the supervisor is required; this could be a staff member from the University or from another institution or from industry.

4.2.2 Any co-supervisor should be involved as soon as practicable in the development of the candidate’s research plan and should maintain a level of communication with the candidate and the supervisor to allow adequate supervision whenever necessary.

4.2.3 Where a co-supervisor(s) is appointed, the respective roles of the co-supervisor(s) and the place of primary responsibility will be clearly identified; the principal supervisor carries the responsibility of co-ordinating communication between the supervisors and the candidate.

4.3 Advisory Committee

4.3.1 In some cases, eg where the topic is multi-disciplinary or staff inexperienced, an advisory committee could be formed to advise the candidate; again, the place of primary responsibility must be made clear.

5. THE TOPIC

It is anticipated that in most instance, the candidate and the supervisor will reach an agreement on a research/thesis topic prior to enrolment.

If it is not possible to define a topic prior to enrolment, it should be defined and submitted to the University Research Committee no later than the end of the first session of enrolment, after the topic has been approved, it may not be changed without further approval of the University Research Committee.

Minor changes to the topic may be made at the time of drafting the final version of the thesis to reflect accurately the research.

6. REPORTS

Written annual reports from the candidate and the supervisor are an important and formal means by which any problems concerning the candidature can be identified. They also serve to keep the appropriate committees of the University, the Faculty Research Committee and the University Research Committee, informed.

Each report must be a frank appraisal of the candidate’s progress by both the supervisor and the candidate. The annual report is the means by which the University assesses whether the candidature will continue into the following year.

6.1 Procedure

6.1.1 Report forms will be circulated to candidates in September each year to allow time for the supervisor, the Head of the Academic unit and the Chairperson of the Faculty Research Committee to view and comment on the report prior to the re-enrolment period for the following year, the supervisor will, before completing the report, discuss with the candidate the comments made by the candidate in the report and the comments that will be made by the supervisor.

6.1.2 The Chairperson will recommend to the University Research Committee on whether the candidate should be permitted to continue candidature in the following year.
6.1.3 A copy of the report will be forwarded to the candidate by the Chairperson after the supervisor, the Head and the Chairperson have added their comments to the report.

7. GRIEVANCE PROCEDURES

Any problems encountered during the candidature or any disagreements between the candidate and the supervisor in relation to the annual reporting process or to other matters during the candidature that can not be easily resolved between the candidate and the supervisor are to be referred, by either the candidate or the supervisor, to the Head, in the first instance.

If, after this process, the candidate is not satisfied with the outcome, the candidate may refer the matter, in writing:

(i) to the Chairperson of the Faculty Research Committee, who may refer the matter to the full Committee for consideration; and then, if necessary,

(ii) to the Dean of the Faculty;

Where the candidate is still not satisfied with the outcome, the candidate should present a case, in writing, to the Chairperson of the University Research Committee. If necessary, the Chairperson will refer the matter to the University Research Committee for consideration and determination.

8. EXAMINATION

The examination of theses submitted for higher degrees is undertaken, in the case of Doctoral candidates, by at least two examiners who are external to the University. For Masters candidates, at least two examiners are used, no more than one of whom is an internal examiner; the supervisor can not be an examiner.

Because of the special nature of research degrees, where the candidates could have uniquely expert understanding of the field, they will also have a special relationship with their examiners. The candidates are not examined only on the basis of their understanding of a body of existing knowledge. They are examined by individuals who must judge their approach to research, their construction of hypotheses, their arguments and their analyses and who will be their peers if the degree is awarded. The selection of examiners is therefore of critical importance.

8.1 Selection

8.1.1 Steps should be taken to ensure that the examiners are free from bias, either against the candidate or the supervisor; this will normally be assessed by a general discussion of possible examiners with the candidate and the supervisor(s).

8.1.2 Examiners should normally be still active in research/scholarship in the relevant area thus ensuring that their knowledge of the field remains current.

8.1.3 They should have empathy with the theoretical framework used by the candidate.

8.1.4 They should be known to be familiar with the supervision/examination of research theses.

8.1.5 They should be made familiar with the requirements of the University and the essential parts of the Rules governing the particular degree.

8.1.6 Names of possible examiners and their credentials to examine the particular thesis should be submitted by the Head (who will normally have taken steps to guard against bias, etc.) to the University Research Committee for appointment.

Following approval by the University Research Committee, formal invitations to examine the thesis will be issued by the Graduate Office. Examiners are normally allowed eight weeks to examine the thesis and provide a report to the University Research Committee.

The reports from the examiners are considered by the University Research Committee, after receiving the comments of the Head on the reports. The University Research Committee determines the outcome of the examination.

In most cases, the names of the examiners and copies of the examiners reports are made available to the candidate after the University Research Committee has made its determination. In some instances, a particular examiner may exercise the options given to all examiners and ask not to be identified to the candidate and/or request that all or part of the report not be made available to the candidate; these requests are respected by the University.

9. APPEALS

As a result of the complex and special relationship with examiners of research degrees, the University has established a procedure which gives candidates, in certain circumstances, the right of appeal against the examination and evaluation of their candidature. Appeals are permitted on procedural grounds only: appeals by disgruntled candidates simply rejecting the assessment of the merit of their work are not permitted. Further, these procedures do not permit an appeal on grounds of complaint about the inadequacy of supervisor or other arrangements during the period of study; the grievance procedures outlined above should be used at the appropriate time during the candidature for these matters.

9.1 Grounds for Appeal

9.1.1 The only grounds permitted for an appeal against a decision not to award a postgraduate research degree or not to allow re-submission of a thesis for re-examination, are:

(i) procedural irregularities in the conduct of the examination, that may have had an effect on the outcome of the examination;

(ii) circumstances affecting the candidate's performance of which the examiners were not aware;

(iii) documentable evidence of prejudice or of bias on the part of one or more of the examiners.

9.2 Procedures

9.2.1 The appeal must be made by the candidate to the Vice-Chancellor, in writing, within one month of the decision of the University Research Committee being made known to the candidate; the candidate must set out fully the grounds for the appeal and provide documentary evidence in support of the appeal.

9.2.2 On receipt of the appeal, the Vice-Chancellor will, in the first instance, refer the matter to the University Research Committee for advice on the circumstances of the case and, if appropriate, for re-consideration of its decision in the light of any information provided by the candidate that was not known to the University Research Committee at the time it made its original decision.

9.2.3 On receipt of the advice from the University Research Committee, the Vice-Chancellor will decide whether a case exists, prima facie.

9.2.4 If the Vice-Chancellor determines that a case does exist, the appeal, together with the advice received from the University Research Committee, will be referred to the Council Committee of Appeal (Student Matters) for determination. The Committee will limit itself to considering the matter only on one or more of the three grounds outlined above and will not consider the academic merits of the examination. Unless they are relevant to particular points made in the case put forward by the candidate, the examiners' reports will not normally be placed before the Committee.

9.2.5 The Committee may determine that the appeal be dismissed or, if it finds that one of the three grounds for appeal above is satisfied, it will refer the matter back to the University Research Committee, through the Vice-Chancellor, with a direction that the thesis be re-examined.

9.2.6 The Vice-Chancellor will advise the candidate of the outcome of the appeal.
10. INTELLECTUAL PROPERTY

The University’s Policy on Consultancies and Intellectual Property sets out, inter alia, the University’s position in relation to intellectual property and ownership of work developed by candidates in the course of their candidatures.

10.1 Ownership

10.1.1 The University will have a proprietary interest in any intellectual property developed by a candidate in the course of candidature for a degree of the University.

10.1.2 Where intellectual property has been created, all reasonable care must be exercised by the candidate, the supervisor(s) and the Head not to disclose or use the property in any way which would prejudice its protection.

10.2 Agreement

10.2.1 The onus is on the supervisor to fully inform the candidate, in writing before enrolment, of any aspects of the research which are likely to result in the generation of intellectual property and/or which is funded by any contractual arrangement(s) and of any restrictions on disclosure or communication with colleagues likely to result from such arrangements.

10.2.2 If the candidate agrees to take part in such a project, a written agreement on the conditions of disclosure etc. should be concluded over the signatures of the candidate, principal supervisor and the Head.

10.2.3 Where patentable intellectual property is generated unexpectedly during the candidature and there is no initial agreement on intellectual property, the candidate, the principal supervisor and the Head should meet immediately and produce a written understanding on the matter.

10.3 Access to theses

10.3.1 Following examination of the thesis and subsequent to any corrections required to the thesis as a result of the examination process, one copy of the thesis will be deposited in the University Library.

10.3.2 At the time of submission of the thesis, the candidate will be requested to complete a form to advise the Librarian on access rights to the thesis. Normally, the University expects that free access to all theses deposited in the Library should be permitted, but recognises that in exceptional circumstances, such as commercial confidences, it may be necessary to restrict access for a period of time. Where access is restricted, it should be for as short a time as possible.

10.4 Other provisions

10.4.1 All other provisions relating to intellectual property and to the role of the Illawarra Technology Corporation Ltd in relation to the assessment of and arrangements for the protection of intellectual property are set out in University’s Policy on Consultancies and Intellectual Property, copies of which are available from Heads and from the Office of Research and Postgraduate Studies.

10.4.2 Agreement should be reached between the candidate and the supervisor concerning authorship of publications and acknowledgment during and after the candidature. There should be open and mutual recognition of the candidate’s and the supervisor’s contribution on all published work arising from the project.
UNIVERSITY POLICIES

The University has a number of Policies to give guidance to staff and students.

Policies exist on the following issues and a copy of all Policies can be obtained from the Secretariat Office in the Administration Building or by phoning (02) 4221 3866.

1. Acknowledgment Practice (printed below)
2. Assignments Submitted by Facsimile (see page 7 in the Student Information section of this calendar)
3. Grievance Resolution Procedures
4. Health and Safety
5. Non-Discriminatory Language Practice and Presentation
6. Principles Under Which Subject Material May Be Sold to Students by Academic Units
7. Privacy
8. Students and Staff Working Alone on University Property

ACKNOWLEDGEMENT PRACTICE

Plagiarism

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

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

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

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

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

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

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

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

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

Acknowledging Sources of Quotations

If you copy a paragraph or even a sentence from an article, a book, lecture notes or an essay or report of another student, it should be put in quotation marks and the article, book or other source should be listed in a footnote or in the bibliography or in the references.

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

Correct.

The bibliography should then include:


Example 1 is presented using the author-date system in which the author of the work and the date the work was published are listed in brackets.

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

Correct - see the footnote.

Example 2 is presented using the footnote system in which the full reference is given as a footnote. You should be aware that, depending on the system your lecturer or tutor prefers, you may use either footnotes at the foot of the page or endnotes at the end of the text.

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

Wrong and very bad: this is a direct quote from Pollak and therefore should be placed in quotation marks followed by a reference using the author-date system or the footnote or endnote system.

If you use a quote, the words in quotation marks must be copied exactly as they are in the original source.

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

Wrong: the quote is inaccurate in several places.

If you change or add anything, use square brackets [ ] to indicate the place where the alteration is located.

If you omit something from the quote, use a line of dots .... to indicate the location of the omission.

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

Correct.

Acknowledging Sources of Ideas

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

2 Pollak, Michael. Sense and Censorship: Commentaries on Censorship Violence in Australia (Sydney: Reed Books, 1990), p 7. or as reference number 2 in the List of References at the end of the essay or report.

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

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

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

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

Correct.

Example 8: In Australia, stringent censorship and draconian defamation laws have led to the subjugation of thought in Australia throughout the 200 years of White settlement (Poliak, 1990, p.7). Wrong: this is too close to Pollak's original wording.

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

Wrong: there is no citation of Pollak.

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

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

Example 10: Defamation laws are quite severe in Australia.
Correct: this is common knowledge. No citation is needed.

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

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

Communication and Cultural Studies
English Studies
History and Politics
Modern Languages
Philosophy
Science and Technology Studies
Sociology

RESEARCH COURSES AVAILABLE

The Faculty offers Honours Master of Arts and Doctor of Philosophy degrees by research.

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The University attempts to ensure that information contained in this publication is up to date at the time of printing but sections may be amended without notice by the University in response to changing circumstances for any other reasons. Classes in any subject may be cancelled if enrolments do not reach the levels approved for the effective presentation of the topic area. Students should check with the University at the time of application/enrolment whether any later information is available in respect of any material contained in this Calendar.

The University reserves the right to change the content or method of presentation of any unit of study, or to withdraw any unit or course of study which it offers, or impose limitations on enrolment in any unit or course as a result of resource limitations or for any other reason.
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COMMUNICATION AND CULTURAL STUDIES

COURSES OFFERED
The following postgraduate courses are available:
1. Doctor of Philosophy
2. Honours Master of Arts by Research
3. Honours Master of Arts (Cultural Studies)
4. Master of Arts (Cultural Studies)
5. Master of Arts (Women’s Studies)

POSTGRADUATE PROGRAMS
Communication Studies
Cultural Studies
Women’s Studies

CURRENT RESEARCH AREAS
The following areas of research are available to candidates for the degrees of Honours Master of Arts and Doctor of Philosophy:

- Aboriginal writing and culture
- Alternative and community theatre/drama
- American cinema history
- American studies
- Australian literary culture
- Australian screen studies
- Canon formation and literary history
- Censorship
- Cinema studies
- Colonialism and Colonial cultures
- Communication studies
- Critical and Cultural theories
- Cross-cultural and inter-ethnic studies
- Cultural differences
- Cultural Policy Studies
- De-Colonising theories
- Electronic cultures
- Fantasy and utopian writing
- Feminist critical theory
- Gender and genre
- Gender studies
- Hypertexts and computer-produced multimedia
- Identity politics
- Indigenous film, television and theatre
- Law and media
- Law and Cultural Studies
- Media studies
- Multicultural critical studies
- New Information technologies
- Popular culture
- Popular literature
- Pornography
- Post-colonial women’s writing
- Publishing studies
- Race and ethnicity studies
- Radical, alternative and independent cinema
- Screen theory, practice and criticism
- Sexuality and representation
- Television cultures

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Time Limits
A full-time candidate shall complete the Doctoral Dissertation in not less than four (4) consecutive sessions, not including Summer sessions, and not more than eight (8) consecutive sessions, not including Summer sessions, from the date of registration.

A part-time candidate shall complete the Doctoral Dissertation in not less than six (6) consecutive sessions, not including Summer sessions, and not more than twelve (12) consecutive sessions, not including Summer sessions, from the date of registration.

Length of Dissertation
The Doctoral Dissertation shall be a minimum of 80,000 words in length.

Candidates for the PhD degree enrol in CCS999.
2. HONOURS MASTER OF ARTS BY RESEARCH

Entry to the Degree
Entry to the degree is normally from the BA Honours. Students having a degree with Class II division ii or higher will normally be accepted into the Masters Honours program.

Qualification Requirements
Students who do not have an Honours degree in an appropriate area may be admitted to the Masters Honours program by completing a ‘Master of Arts (Preliminary)’.

Master of Arts Preliminary
Students enrolling in the Master of Arts (Preliminary) will normally be required to take six subjects chosen from the subjects on offer in CCS400 (Communication and Cultural Studies Honours) and Postgraduate coursework subjects. Students who do not have a background in critical and cultural theories should include CCS990 Theories of Text, Discourse, Subjectivity and Culture in their programs.

Time Limits
A full-time candidate shall complete the Honours Masters Dissertation in not less than two consecutive sessions, not including Summer sessions, from the date of registration.

A part-time candidate shall complete the Honours Masters Dissertation in not less than three consecutive sessions, not including Summer sessions, and not more than eight consecutive sessions, not including Summer sessions, from the date of registration.

Length of Dissertation
The Honours Masters Dissertation shall be approximately 50,000 words in length.

Candidates for the Master of Arts (Honours) degree enrol in CCS999.

3. HONOURS MASTER OF ARTS (CULTURAL STUDIES)

4. MASTER OF ARTS (CULTURAL STUDIES)

5. MASTER OF ARTS (WOMEN’S STUDIES)

For details of these courses, please refer to the ‘CULTURAL STUDIES’ entry or the ‘WOMEN’S STUDIES’ entry in the Faculty of Arts section.

SUBJECT DESCRIPTIONS

CCS939 Deconstructing Australia
Spring 8 cp
Contact Hrs: 3 hrs seminar per week. Assessment: seminar paper, 2 essays.
This subject is designed to introduce students to the area of poststructuralist feminism and postcolonial theory.

CCS951 Regulating Culture: Policy, Language and Control
Autumn 8 cp
Contact Hrs: 3 hrs seminar per week. Assessment: seminar paper, oral presentation and participation.
This subject will examine the regulation of cultural production as a process of contestation between government cultural policy, economic regulation and community ethical codes. This investigation will be conducted within the context of Cultural Policy Studies, which emphasises the critical study of institutional practice, regulatory practices such as censorship and language control will therefore be considered as a combination of institutional strategies of meaning production.

CCS955 Technologies of the Body
Autumn 8 cp
Contact Hrs: 3 hrs seminar per week. Assessment: seminar paper, essay, oral presentation and participation.
This subject is an introduction to the discursive and material analysis of definitions and descriptions brought to bear on ‘the body’ across a range of institutional and disciplinary sites. As such, it examines the relationship between the socially constructed self and the representation of bodies. This subject aims to provide students with a critical understanding of the issues involved in the representation of bodies.

CCS966 Special Topic
Autumn/Spring 8 cp
Contact Hrs: 3 hrs seminar per week.
Assessment: assignments to be negotiated with Subject Co-ordinator in the first week of session.
This subject introduces students to the study of how cultural differences, race and ethnicity inform debates around postcolonialism, multiculturalism and identity politics. It examines the impact of theoretical, critical and minority cultural practices on reading differences in Australian culture and cultural formations. Major topics studied include the reception of texts by minority groups eg migrant hip hop, theories of ethnic spectatorship, nationalism, arts policy and the politics of indigenous writing.

CCS975 Reading Cultural Differences*
Spring 8 cp
Contact Hrs: 3 hrs seminar per week. Assessment: seminar paper, major essay, oral presentation and participation.
This subject introduces students to the study of how cultural differences, race and ethnicity inform debates around postcolonialism, multiculturalism and identity politics. It examines the impact of theoretical, critical and minority cultural practices on reading differences in Australian cultural and cultural formations. Major topics studied include the reception of texts by minority groups eg migrant hip hop, theories of ethnic spectatorship, nationalism, arts policy and the politics of indigenous writing.

CCS977 Media Studies: Analysing Media Texts
Spring 8 cp
Contact Hrs: 3 hrs lecture/seminar per week. Assessment: 3 written assignments.
This subject is concerned with the construction and reception of a range of media texts produced by cultural industries and will focus on key theoretical areas (eg semiotics) that provide approaches to the analysis of such texts. Treatment of topical areas will be on the basis of case-studies which in 1998 will address issues of representation; subjectivity and ‘otherness’; audience/reader reception; media institutions; the impact of the ‘new’ digital media.

CCS990 Theories of Text, Discourse, Subjectivity and Culture
Autumn 8 cp
Contact Hrs: 3 hrs seminar per week.
* Not on offer in 1998
Assessment: major essay, seminar paper, textual analysis exercise. This subject aims to provide an introduction to contemporary critical theories of text, discourse, subjectivity and culture. Students will be introduced to a range of theoretical approaches and methodologies which question fundamental assumptions about culture, knowledge and relations of power. The assessment work is designed to establish connections between the theoretical methodologies and the student's own research interests.

CCS999 Major Thesis
Double 48 cp
Contact hrs: consultation as required.
Assessment: as appropriate for MA(Hons) or PhD degrees. This subject will enable students to undertake the production of an MA(Hons) thesis or a Doctoral Dissertation in Communication and Cultural Studies.
**CULTURAL STUDIES**

### COURSES OFFERED

The following postgraduate courses are available:

1. Honours Master of Arts
2. Master of Arts

### POSTGRADUATE PROGRAM

#### Cultural Studies

### SCHEDULE OF PROGRAMS

#### POSTGRADUATE PROGRAM IN CULTURAL STUDIES

leading to the Master of Arts or Honours Master of Arts

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# Subject to final approval.
For further details, see Course Requirements below.

### COURSE REQUIREMENTS

1. **HONOURS MASTER OF ARTS**

2. **MASTER OF ARTS**

The Masters courses in Cultural Studies (Master of Arts and Honours Master of Arts) involve interdisciplinary programs that bring together teaching and research from Communication and Cultural Studies, Sociology, English and Science and Technology Studies. They aim to provide graduates with knowledge and critical skills that will benefit them across a range of disciplines and professions. (Administered jointly by Communication and Cultural Studies and Sociology.)

*Not on offer in 1998*
The objectives of this program are to provide students with the appropriate analytical skills to enable them to:

- comprehend and engage with the central critical and theoretical issues (both historical and contemporary) in the field of Cultural Studies;
- stage critical readings of texts and cultural practices;
- analyze the relations of power that structure culture and knowledge;
- understand the critical re-evaluation of categories of value governing traditional hierarchies of knowledge structured by class, race, ethnicity, gender and sexuality;
- appreciate the consequent reappraisal of minority cultures, the practices of everyday life and cultural artifacts traditionally placed outside the purview of scholarly study (for example, kitsch and cultural ephemera, shopping centres, graffiti, popular music, etc) as well as the more mainstream cultural formations.

The program also seeks to provide opportunities for applied cultural analysis in such areas.

Pass degree entry
Pass graduates or equivalent may undertake a 48 credit point Master of Arts course, choosing 6 subjects (which in normal circumstances will include the four prescribed subjects) from the Schedule, excluding the minor thesis. The degree will run over one year full-time or two years for part-time students.

Honours degree entry
(i) Honours graduates with a grade of at least Class II, Division 2 or its equivalent in an appropriate area (as assessed by a course panel) may enter this coursework MA with a notional accreditation of 48 credit points. Candidates will undertake each of the prescribed subjects and choose one of the Optional Subjects from the schedule above. (One year full-time, two years part-time)
(ii) Pass graduates or equivalent with a credit average or better may undertake a 96 credit point Honours MA coursework program. The initial 48 credit point part of the program will be considered a qualifying course, with subjects at the appropriate level being chosen from offerings in the CCS, English and Sociology schedules in consultation with the course co-ordinator. The subsequent 48 credit points will be undertaken according to the rubric applying to the MA Honours course. (Two years full-time, three years part-time.)

SUBJECT DESCRIPTIONS

CCS930 or SOC990 Minor Thesis 24 cp
Students will be required to engage in an extensive program of study - reading, research and fieldwork - that will explore in depth and detail one issue (or a set of issues) that arises from or is related to the concepts and material dealt within coursework subjects. This program will result in the submission of an essay of 15,000 words, OR a fieldwork report of 15,000 words (or equivalent taking into account diagrams, tables and other graphics) OR some other equivalent body of work, as arranged with the course administrative panel. Whilst the dissertation can be nominated by the student, they will require the approval of the Board six weeks into the course and this has to be validated by the ninth week; when a formal supervisor will be allocated.

CCS951 Regulating Culture: Policy, Language and Control
Autumn 8 cp
Contact hrs: 3 hours seminar per week.
Assessment: one essay, one case study.

This subject will examine the regulation of cultural production as a process of contestation between government cultural policy, economic regulation and community ethical codes. This investigation will be conducted within the context of Cultural Policy Studies, which emphasises the critical study of institutional practice; regulatory practices such as censorship and language control will therefore be considered as a combination of institutional strategies of meaning production.

CCS955 Technologies of the Body
Spring 8 cp
Contact hrs: 3 hrs seminar per week.
Assessment: seminar paper, essay, oral presentation and participation.
This subject is an introduction to the discursive and material analysis of definitions and descriptions brought to bear on 'the body' across a number of institutional and disciplinary sites. As such, it examines major theoretical and critical concerns about the socio-cultural practices associated with the representation of bodies. These concerns emanate from and include feminist, postcolonial, postmodern, psychoanalytic, poststructuralist and queer theoretical debates about identity and representation.

CCS966 Special Topic
Autumn/Spring 8 cp
Contact hrs: 3 hr seminar.
Assessment: 4 written assignments each.

Directed reading, research and other investigative activities leading to the production of a major essay/report in the field of study selected by the student in consultation with the Co-ordinator of Postgraduate Studies in Communication and Cultural Studies and the Head of Program.

CCS975 Reading Cultural Differences*
Spring 8 cp
Contact hrs: 3hrs seminar per week.
Assessment: One seminar paper, one major essay, oral presentation and participation.
This subject introduces students to the study of how cultural differences, race and ethnicity inform debates around postcolonialism; multiculturalism and identity politics. The subject examines the impact of theoretical, critical and minority cultural practices on reading differences in Australian cultural and discursive formations. Major topics to be studied include the reception of texts by minority groups eg migrant hip hop; theories of ethnic spectatorship; nationalism; arts policy and the politics of indigenous writing.

CCS990 Theories of Text, Discourse, Subjectivity and Culture
Autumn 8 cp
Contact hrs: 3 hrs seminar per week.
Assessment: 1 major essay, 1 seminar paper, 1 textual analysis exercise.
This subject aims to provide an introduction to contemporary critical theories of text, discourse, subjectivity and culture. Students will be introduced to a range of theoretical approaches and methodologies which question fundamental assumptions about culture, knowledge and relations of power. The assessment work is designed to establish connections between the theoretical methodologies and the student’s own research interests.

ENGL912 Representing India
Autumn 8 cp
Contact hrs: 3 hrs seminar per week.
Assessment: 3 essays.
A survey of the various kinds of texts concerned with representing other cultures (travel writing, ethnography, colonial fiction, etc); analysis of the interaction of language and culture, literary conventions, modes of textual production, socio-cultural perceptions and critical reactions; theorising on constructions of culture as essence and interchange.

SOC918 Advanced Sociology of Development
Spring Assessment: Seminar paper, minor essay, major essay.
Contact hrs: 1 hr lecture, 2 hrs seminar per week.
Examines the interaction between rich and poor nations, and theoretical explanations for the emergence of international disparities of wealth. In particular it will focus on the Asia-Pacific region, and the role that Australia plays in this part of the world. Development programs conducted by both government and non-government

* Not on offer in 1998
agencies will be studied, with illustrative examples from current development debates.

**SOC921 Special Topic in Sociological Studies**
*Autumn/Spring* 8 cp
Assessment: One essay and tutorial assignments.
Contact hrs: Individual supervision and seminars.
Topics for this subject may be chosen from any area of Sociology which the Head of Program considers to be of suitable substance and level to be offered as a SOC9200 subject. This will be a reading subject offered under the direct supervision of a member of staff. For information of availability of topics offered, students should consult the Head of Program.

**SOC942 Advanced Race and Ethnic Studies**
*Autumn* 8 cp
Assessment: Seminar paper and presentation, major essay, class participation.
Contact hrs: 2hrs seminar per week.
Introduces students to theories of ethnicity, ‘race’ and racism, in relation to other dimensions of social structure, in particular class and gender relations. Within an analysis of the Australian context, the significance of culture and ideology is explored. This includes an analysis of the subjective and structural dimensions of racial oppression and liberation movements, as well as an analysis of the broader theoretical and substantive relationship between culture, identity and resistance. These theories and issues will relate to the situation of Aboriginal and ethnic minorities in Australia, and international and historical comparisons will be made.

**SOC946 Practical Communication and Communications Theory**
*Autumn* 8 cp
Assessment: Major essay, seminar paper, and seminar work.
Contact hrs: 2hrs seminar per week.
This subject aims to lift professional communication skills and understanding by relating practical issues to theoretical models, concepts, and ideas. It seeks to undertake this by exploring various debates, and theoretical constructs which help relate individuals to society. Practical work will include: interviewing, participant observation, role-playing, analysing visual and phenomenological material. The theoretical traverse will examine various accounts, models and theories of communication and aims to raise students' ability to encode and decode communication issues.

**SOC947 Cultural Theory**
*Spring* 8 cp
Assessment: Major essay, seminar paper, seminar presentations, class participation.
Contact hrs: 2hrs seminar per week.
This subject introduces students to the work of leading cultural theorists and modes of cultural analysis. A number of perspectives will be covered ranging from structuralism, neo-marxism and phenomenology, through to feminism and post-modernism. Key concepts and issues to be explored will include forms and modes of culture in their social context: for example ‘high’ culture and ‘popular’ culture; hegemony; media culture; the relationship between ‘race/ethnicity and culture; gendered cultures; the relationship between feminism and culture; the technological mediation of culture; cultural production as social/political intervention; visual culture; culture and the environment; post-modernism. Students will explore the implications, value and impact of particular cultural theories and will be encouraged to construct their own interventions.

**SOC950 Advanced Studies of the Individual in Society**

**SOC959 Advanced Studies of Gender in Society**
*Autumn* 8 cp
Assessment: Short exercises, major essay.
Contact hrs: 2 hrs seminar per week.
This subject takes as its focus current debates about the constitution of humans as gendered subjects. Through the reading of key texts students will explore the debates within contemporary sociological thought on the complex inter-relation of social structures, social institutions and social practices in the constitution of femininity and masculinity. Questions of ‘difference’ and the usefulness of Western feminist perspectives for cross-cultural analysis will be considered.

**STS915 Master Narratives, Myth and Symbolic Politics in Science**
*Spring* 8 cp
Contact hrs: 3 hrs per week lecture/seminars.
The past generation has witnessed the demise of traditional master narratives of scientific progress and rationality. Previously received cultural understandings of science and its history have become objects of study in a new, critical history and sociology of science. This subject surveys the previously received narratives and examines their deconstruction in the work of Bachelard, Canguilhem, Foucault, Kuhn, Popper, Feyerabend, and sociologists of scientific knowledge such as Collins, Latour and Shapin.

*Not on offer in 1998*
ENGLISH STUDIES

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Arts by Research
3. Honours Master of Arts by Research (Post-colonial Literatures)
4. Honours Master of Arts by Coursework (Post-colonial Literatures)
5. Master of Arts (Post-colonial Literatures)
6. Master of Arts (English Studies)

The English Studies Program also contributes subjects to the

- Master of Arts (Women's Studies)
- Master of Arts (Cultural Studies)

POSTGRADUATE PROGRAMS

Post-Colonial Literatures
English Studies
Women's Studies (See Women's Studies section of this Calendar)
Cultural Studies (See Cultural Studies section of this Calendar)

CURRENT RESEARCH AREAS

The following areas of research are available to candidates for the degrees of Honours Master of Arts and Doctor of Philosophy.

Alternative and community theatre/drama
Aboriginal writing and culture
African literatures and cultures
Australian literature
Australian screen studies
Australasian theatre
Canadian literature and culture
Caribbean literature and culture
Cross cultural literature
Early seventeenth-century literature and culture
Early women writers
Eighteenth-century literature and culture
Electronic Culture
Electronic Texts and Electronic Publishing
Elizabethan/Renaissance literature and culture
Fantasy
Gender and genre studies
The Gothic
Identity Politics
Indian writing in English
Literature and cultural theory
Middle English language and literature
Modern European theatre
Modern poetry and fiction
Multicultural literatures
New literatures in English (Commonwealth/Post-colonial literatures)
New Zealand literature
Nineteenth-century literature
Nineteenth-century women's writing
Nineteenth and twentieth-century popular theatre
Novel and film studies (adaptation theory)
Old English language and literature
Pacific literature
Popular literature
Post-colonial literatures and theories
Post-colonial Women's Writing
'Race' and ethnicity studies
Sexuality and representation
Shakespeare
Text-to-performance studies in theatre
Textual criticism and computer-generated editions
Theories of the modern stage
Victorian cultural studies
Women's autobiography
SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN ENGLISH STUDIES

leading to the degree of Master of Arts

Students must choose six subjects (48 credit points). Students may choose all six from the English Studies Program offerings (List i) or they may substitute up to two from approved subjects (List ii), offered outside the Program.

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<tr>
<th>Number</th>
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<th>Credit Points</th>
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<tr>
<td>(i) ENGLISH PROGRAM SUBJECTS</td>
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<tr>
<td>ENGL903</td>
<td>Post-colonial Literary Issues</td>
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<tr>
<td>ENGL906</td>
<td>20th Century Post-colonial Poets</td>
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<tr>
<td>ENGL908</td>
<td>Literature from Colonised Societies*</td>
<td>8</td>
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<tr>
<td>ENGL910</td>
<td>20th Century Women Writers</td>
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<td>ENGL912</td>
<td>Representing India</td>
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<tr>
<td>ENGL916</td>
<td>United States Literature of the 19th and Early 20th Centuries*</td>
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<tr>
<td>ENGL918</td>
<td>Special Topic</td>
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</tr>
<tr>
<td>ENGL921</td>
<td>Turning Points: Selected Post-colonial Fiction</td>
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</tr>
<tr>
<td>ENGL922</td>
<td>Research Methods*</td>
<td>8</td>
</tr>
<tr>
<td>ENGL923</td>
<td>Indigenous Literatures in Canada, New Zealand and Australia</td>
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<tr>
<td>ENGL926</td>
<td>Signs of the Times</td>
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</tr>
<tr>
<td>ENGL930</td>
<td>History and Romance in Early Modern Britain</td>
<td>8</td>
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<tr>
<td>ENGL931</td>
<td>Contemporary Australian Drama</td>
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<tr>
<td>ENGL933</td>
<td>Early Women Writers</td>
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<td>ENGL934</td>
<td>Africa and the New World</td>
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<tr>
<td>ENGL939</td>
<td>Twentieth Century Aust. Literary Culture: Gender, Ethnicity, Post-colonialism*</td>
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</tr>
<tr>
<td>ENGL943</td>
<td>Decolonising Literatures</td>
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</tbody>
</table>

| (ii) OTHER APPROVED SUBJECTS |
| CCS939 | Deconstructing Australia | 8 |
| CCS951 | Regulating Culture: Policy, Language & Control | 8 |
| CCS955 | Technologies of the Body | 8 |
| CCS975 | Reading Cultural Differences* | 8 |
| CCS977 | Media Studies: Analysing Media Texts | 8 |
| CCS990 | Theories of Text, Discourse, Subjectivity & Culture | 8 |

POSTGRADUATE PROGRAMS IN POST-COLONIAL LITERATURES

leading to the Master of Arts or Honours Master of Arts.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>(i) Master of Arts by Coursework</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students must choose 6 subjects (48 credit points) from the list of Optional Subjects below</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

| (ii) Honours Master of Arts by Coursework |
| Minor Thesis |
| ENGL902 | Dissertation (20,000 words) | 24 |
| Students must choose a further 3 subjects (24 credit points) from the list of Optional Subjects below. | 24 |

| (iii) Honours Master of Arts by Research |
| Minor Thesis |
| ENGL904 | Dissertation (30,000 words) | 32 |
| Students must choose a further 2 subjects (16 credit points) from the list of Optional Subjects below. | 16 |

Optional Subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL903</td>
<td>Post-colonial Literary Issues</td>
</tr>
<tr>
<td>ENGL906</td>
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<td>ENGL908</td>
<td>Literature from Colonised Societies*</td>
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<tr>
<td>ENGL910</td>
<td>Twentieth Century Women Writers</td>
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<tr>
<td>ENGL912</td>
<td>Representing India</td>
</tr>
<tr>
<td>ENGL916</td>
<td>United States Literature of the Nineteenth and Early Twentieth Centuries*</td>
</tr>
<tr>
<td>ENGL918</td>
<td>Special Topic</td>
</tr>
<tr>
<td>ENGL921</td>
<td>Turning Points: Selected Post-colonial Fiction</td>
</tr>
<tr>
<td>ENGL922</td>
<td>Research Methods*</td>
</tr>
<tr>
<td>ENGL923</td>
<td>Indigenous Literature in Canada, Australia and New Zealand</td>
</tr>
<tr>
<td>ENGL931</td>
<td>Contemporary Australian Drama</td>
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<td>ENGL934</td>
<td>Africa and the New World</td>
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<tr>
<td>ENGL943</td>
<td>Decolonising Literatures</td>
</tr>
<tr>
<td>CCS939</td>
<td>Deconstructing Australia</td>
</tr>
</tbody>
</table>

* Not on offer in 1998
74 Faculty of Arts

HIST933 | Culture and Politics in Indonesia, 1865-1988
---|---
12
For further details, see Course Requirements.

OTHER POSTGRADUATE SUBJECT

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL999</td>
<td>Major thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

**Time Limits**
A full-time candidate shall complete the Doctoral Dissertation in not less than four (4) consecutive sessions, not including Summer sessions and not more than eight (8) consecutive sessions, from the date of registration.

A part-time candidate shall complete the Doctoral Dissertation in not less than twelve (12) consecutive sessions, not including Summer sessions, from the date of registration.

**Length of Dissertation**
The Doctoral Dissertation shall be a minimum of 80,000 words in length.

Candidates for the PhD degree enrol in ENGL999.

2. HONOURS MASTER OF ARTS BY RESEARCH

**Entry to the Degree**
Enter to the degree is normally from the BA Honours. Students having a degree with Class II division ii or higher will normally be accepted into the Masters Honours programme.

**Time Limits**
A full-time candidate shall complete the Honours Masters Dissertation in not less than two (2) consecutive sessions, not including Summer sessions, from the date of registration.

A part-time candidate shall complete the Honours Masters Dissertation in not less than three (3) consecutive sessions, not including Summer sessions and not more than eight (8) consecutive sessions, from the date of registration.

**Length of Dissertation**
The Honours Masters Dissertation shall be approximately 50,000 words in length.

Candidates for the Master of Arts (Honours) degree enrol in ENGL999.

Qualification Requirements
Students who do not have an Honours degree in an appropriate area may be admitted to the Masters Honours program by completing a 'Master of Arts (Preliminary)'.

**Master of Arts Preliminary**
Students enrolling in the Master of Arts (Preliminary) will normally be required to take six (6) subjects chosen from the subjects on offer in ENGL400 (English Honours) and Postgraduate coursework subjects.

POSTGRADUATE PROGRAMS IN POST-COLONIAL LITERATURES

**Description**
The area of focus for studies will be critical approaches to the literature in English appearing from a history of colonial presence in various nations, mostly (but not entirely) belonging to the British Commonwealth.

Once regarded as peripheral and culturally derivative, this writing has produced some of the modern greats of 'English' literature - V.S. Naipaul, Margaret Atwood, Patrick White, Salman Rushdie, Nadine Gordimer, Derek Walcott and, of course, writers from that other former colony, the United States. The course will consider those complex interactions of culture, politics and aesthetics common to the whole field and particular to each of its regions.

**HONOURS MASTER OF ARTS BY RESEARCH (POST-COLONIAL LITERATURES)**

BA (or equivalent) Honours graduates with a grade of at least Class II, Division ii in an appropriate area will undertake a 48 credit point course made up of two optional subjects from the Schedule (16cp) and a 30,000-word (32cp) dissertation (ENGL904) on a subject agreed on with a supervisor. The duration of the course will be two sessions (full-time) not including Summer Session, or four sessions for part-time students.

**HONOURS MASTER OF ARTS BY COURSEWORK (POST-COLONIAL LITERATURES)**

BA (or equivalent) Honours graduates with a grade of at least Class II, Division ii in an appropriate area will undertake a 48 credit point course. They will take three optional subjects from the schedule (24 cp), and will complete a 20,000-word (24 cp) dissertation (ENGL902) on a topic agreed on with a supervisor. The duration of the course will be two sessions (full-time) not including Summer Session, or four sessions for part-time students.

**MASTER OF ARTS BY COURSEWORK (POST-COLONIAL LITERATURES)**
Entry to the Master of Arts (Pass) by coursework will normally be from the BA or equivalent qualification. Students will undertake a 48 credit point Master of Arts course. They will take six optional subjects (48 cp) from the schedule. There is no thesis component in this course. The degree will run over two sessions (excluding Summer Session) full-time or four sessions for part-time students.

MASTER OF ARTS (ENGLISH STUDIES)

The MA English Studies is designed for students wanting to continue their studies in English on a general coursework level. There is no thesis component in this course, which allows students a wide choice of subjects reflecting the Program's areas of specialisation.

Entry to the degree:

Students possessing a BA or equivalent qualification will take a total of 48 credit points, choosing 6 (six) subjects from the schedule for the degree.

The course will normally take two consecutive sessions (not including Summer session) for full-time students or four consecutive sessions (not including Summer session) for part-time students.

MASTER OF ARTS (CULTURAL STUDIES)

The English Studies Program contributes to the degree of Master of Arts (Cultural Studies). For full details of this course, please refer to the 'CULTURAL STUDIES' entry in the Faculty of Arts section.

MASTER OF ARTS (WOMEN'S STUDIES)

The English Studies Program contributes subjects to the degree of Master of Arts (Women's Studies), an interdisciplinary program administered by the Faculty of Arts. For full details of this course, please refer to the 'WOMEN'S STUDIES' entry in the Faculty of Arts section.

SUBJECT DESCRIPTIONS

ENGL902 Dissertation Double 24 cp
The subject involves the writing of a dissertation of 20,000 words on a research topic to be determined in consultation with the supervisor.

ENGL903 Post-colonial Literary Issues Autumn/Spring 8 cp
Contact hrs: 3 hr seminar per week.
A survey of major fiction texts of post-colonial writing in English, the question of 'universal' standards; nationalism and aesthetics, the formation of a field of study. Discussion will be based on selected critical readings.

ENGL904 Dissertation Double 32 cp
This subject involves the writing of a dissertation of 30,000 words on a research topic to be determined in consultation with the supervisor.

ENGL906 Twentieth Century Post-colonial Poets Spring 8 cp
Contact hrs: 3 hr seminar per week.
The Politics of Free Voice: this subject will focus on the 20th century English language poetry of the former British colonies with particular reference to the historical implications of linguistic colonisation and the post-colonial poetic imperative to decolonise the mind, to rediscover and (re)assert a multiplicity of voice.

ENGL908 Literature from Colonised Societies* 8 cp

ENGL910 Twentieth Century Women Writers Spring 8 cp
Contact hrs: 1 hr lecture, 2hr seminar per week.
This subject deals with the work of six modern women writers: Virginia Woolf, Katherine Mansfield, Sylvia Plath, Dorothy Hewett, Alice Walker and Jamaica Kincaid. Of particular concern are the cultural processes which so often lead to the mythologising of a woman writer's life, and the way this life/myth interacts with interpretations of that writer's work.

ENGL912 Representing India Spring 8 cp
Contact hrs: 3 hr seminar per week.
a survey of the various kinds of texts concerned with representing India (travel writing, ethnography, colonial fiction, etc); analysis of the interaction of language and culture, literary conventions, modes of textual production, socio-cultural perceptions and critical reactions;

ENGL916 United States Literature of the Nineteenth and Early Twentieth Centuries* 8 cp

ENGL918 Special Topic Spring/Autumn 8 cp
Contact hrs: 3 hr seminar per week.
Enter to this subject depends on the availability of staff.
Directed reading, research and other investigative activities at an advanced level in a field of study selected by the student in consultation with the Co-ordinator of Postgraduate Studies in English and approved by the Head of Program.

ENGL921 Turning Points: Selected Post-Colonial Fiction Spring 8 cp
Contact hrs: 3 hr seminar per week.
A survey of major fiction texts of post-colonial writing in English, especially 'first' novels from emerging nations and fiction that has become seminal in creating the literary corpus of post-colonial studies. It examines the interaction between colonial experience and literary form and technique, and critical responses surveyed for various constructions of a post-colonial tradition.

ENGL922 Research Methods* 8 cp

ENGL923 Indigenous Literatures in Canada, New Zealand and Australia Spring 8 cp
Contact hrs: 3 hr seminar per week.
This subject will study indigenous writing and theory in the context of world movements, though it will focus on Australia, New Zealand and Canada. The subject will focus on identity politics, on the appropriation of voice debate, and on the question of what constitutes the 'literary'. The course will interrogate a range of post-colonial practices, as articulated by indigenous theorists and guest speakers.

ENGL929 Signs of the Times: Victorian Literature and Culture Autumn 8 cp
Contact hrs: 2 hr seminar per week.
What were the 'signs of the times' in Britain when Victoria ascended the throne in 1837? Through a range of texts and ways of reading we will investigate the phenomenon of Victorianism. With case studies focussing on forms of political discourse, Victorian visual culture, and theorising on constructions of culture as essence and interchange.

* Not on offer in 1998
women's writing, this subject will examine nineteenth-century English culture and society.

**ENGL930 History and Romance in Early Modern Britain**  
**Autumn**  
**8 cp**  
Contact hrs: 2 hr seminar per week.  
The subject focuses on texts which deal with history and romance in late Tudor and Stuart England, looking particularly at the way such texts deliberately lend themselves to varying readings, how they become part of the ideology of a culture, legitimating or questioning the powerful, and how both well-known and less familiar men and women writers (and readers) dealt with issues presented in the trappings of history and romance.

**ENGL931 Contemporary Australian Drama**  
**Autumn**  
**8 cp**  
Contact hrs: 3 hr seminar per week.  
An examination of the theatrical, literary and social developments in Australian drama from 1970. Texts will include (when available) first and second drafts, manuscripts in pre-production preparation, rehearsal texts and published plays. New texts may be drawn from scripts workshoped at the annual National Playwrights' Conference or from dramaturgical departments allied with the State Theatre Companies.

**ENGL933 Early Women Writers**  
**Autumn**  
**8 cp**  
Contact hrs: 2 hr lecture/seminar per week.  
This subject looks at the work of women writers from the mid-fifteenth century to the early eighteenth century. The texts represent different types of writing: fiction, poetry, diaries, letters and autobiographical writings. The subject will examine the establishment of the female writing self within the appropriate cultural structure and historical context, and the engagement of that self with the social and literary conventions of the time.

**ENGL934 Africa and the New World**  
**Autumn**  
**8 cp**  
Contact hrs: 3 hr seminar per week.  
This subject studies the imagination of Africa and images of blackness, concentrating on later 20th century English-language texts from East, West and Central Africa, South Africa, the Caribbean, the Americas and Europe. It explores processes of colonisation and decolonisation; authenticity and identity in terms of race, nation and gender; the construction of a black aesthetic and the politics and poetics of textual form.

**ENGL939 Studies in Twentieth Century Australian Literary Culture: Gender, Ethnicity, Post-colonialism**  
**8 cp**  

**ENGL942 Performance Studies: Theory, Practice and Criticism**  
**8 cp**  

**ENGL943 Studies in Decolonising Literatures**  
**Spring**  
**8 cp**  
Contact hrs: 1 hr lecture, 2 hr seminar per week.  
This subject examines literatures which have grown out of Pacific, South-east Asian and African colonies of the former British Empire. In 1998 the regional focus will be on the Pacific. It considers how issues of nationalism, language, race, gender and cultural identity shape critical and creative practices and examines issues of minority writings within the nation and the implication of regional/national literatures in global systems.*

*Not on offer in 1998*
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Arts by Research
3. Master of Arts

CURRENT RESEARCH AREAS

Areas of research available to candidates undertaking the Honours Master of Arts degree by research and the Doctor of Philosophy degree include the following:

- Australian history, with emphasis on labour, feminist, regional, military, social and political themes
- Modern Southeast Asian history
- 19th and 20th century British social and political history, and relations with the USA
- Historiography, including labour, Marxist and communist
- 20th Century Russian History
- United States History

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN HISTORY leading to the Master of Arts.

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<tr>
<td>HIST933</td>
<td>Culture, History and Politics in Southeast Asia: Indonesia and Other Case Studies</td>
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<tr>
<td>HIST942</td>
<td>Themes in European History</td>
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<td>HIST943</td>
<td>Themes in United States History</td>
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<tr>
<td>HIST944</td>
<td>Southeast Asia's Economic Transformations</td>
<td>12</td>
</tr>
<tr>
<td>HIST951</td>
<td>Philosophy of History</td>
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</table>

For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

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<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tr>
<td>HIST973</td>
<td>Major Thesis</td>
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<tr>
<td>HIST975</td>
<td>MA (Hons) Minor Thesis</td>
<td>24</td>
</tr>
</tbody>
</table>

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

The Doctoral Dissertation shall be not less than 80,000 words and not more than 100,000 words in length. For this degree, candidates enrol in the subject HIST973.

2. MASTER OF ARTS

Pass degree entry. Pass graduates or equivalent with a major in History may undertake a 48 credit point Master of Arts course, choosing subjects from the Schedule (excluding the minor and major thesis).

Honours degree entry

The Honours Master of Arts degree is offered either as a research degree, consisting of a major thesis, or as a research and coursework degree consisting of a minor thesis and coursework.

The maximum length of a major thesis shall be 40,000 words and the minimum length of a minor thesis shall be 20,000 words.

Students enrolling in the Honours Master of Arts by research will be BA Honours graduates with a grade of at least Class II, Division 2 or its equivalent in History, or those who have completed the MA coursework requirements at credit level or better. For this degree, candidates enrol in the subject HIST973. Those who enter the Honours Master with a BA (Hons) enter with a notional accreditation of 48 credit points.

Those who have completed 48 credit points of a Pass Masters degree at credit level or better may proceed to an Honours Masters by coursework and minor thesis only. Their subsequent 48 credit points shall include 24 credit points of coursework from the schedule above (one of which shall be HIST951, Philosophy of History unless they have already undertaken HIST325, Theory and Method, at the undergraduate level) and the minor thesis.

In special cases the Program Head may vary the entry requirements, if satisfied that an applicant's qualifications have prepared him or her for advanced historical study.
HIST904 Reading Course on Themes in Australian History
Autumn/Spring 12 cp
Contact hrs: One hr supervision per week.
Assessment: 2 essays, paper.
This subject is designed to enable students to undertake a sustained reading program in selected themes in Australian History under close supervision. Enrolment, selection of appropriate themes and readings are subject to the approval of the Head of the Program.

HIST933 Culture, History and Politics in Southeast Asia: Indonesia and Other Case Studies
Autumn 12 cp
Contact hrs: 3 hrs per week.
Assessment: 9,000 words in essays/tutorial papers.
Examines the politics of identity in Southeast Asia using a number of case studies, particularly from Indonesia. Issues explored include the relationship between nationalism, modernity and politics, the ways history and culture are viewed by present governments, the role of minority groups, the importance of Islam, and relationships between military rule and democracy.

HIST942 Themes in European History
Autumn/Spring 12 cp
Contact hrs: Minimum one hour per week by arrangement with staff.
Assessment: Essay, research exercise and literature review.
This subject is designed to enable students to study major themes in European history. Enrolment, selection of appropriate themes and readings are subject to the approval of the Head of Program. Themes to be examined include the role of war, class and nationalism in modern European history.

HIST943 Themes in United States History
Autumn/Spring 12 cp
Contact hrs: Minimum one hour per week by arrangement with Subject Co-ordinator.
Assessment: Essay, research exercise, literature review.
Identifies the dominant forces at work in the United States since the Second World War. It is designed to enable students to examine these major themes in the recent history of the United States. Enrolment, selection of appropriate areas of specialisation and readings are subject to approval by the Head of Program.

HIST944 Southeast Asia's Economic Transformations
Spring 12 cp
Contact hrs: Minimum one hour per week by arrangement with member of staff.
Assessment: Essay, research exercise, literature review.
Examines the major features affecting the modern economic transformation of Southeast Asia, particularly Vietnam. Issues studied include the social economic changes wrought by colonialism, the impact of World War Two, post-war political upheavals and their effect on the societies and economies, international involvement in the region, and the booms of recent decades.

HIST951 Philosophy of History
Spring 12 cp
Contact hrs: 2 hr seminar per week.
Assessment: 9,000 words in essays/tutorials.
Examines certain fundamental problems associated with historical enquiry, including the core question, 'How do we come to know the past?' Some related questions explored are: Is the historical discipline a science? Are there historical laws? What role is played by chance in determining the outcome of events? What is meant by explanation? Is it possible for historians to be objective? Can a knowledge of the past provide the historian with the ability to predict?

HIST975 MA (Hons) Minor Thesis
Annual session 24 cp
Pre-requisites: 48 credit points MA coursework subjects.
Co-requisites: 24 credit points MA coursework subjects.
Students undertaking the degree must submit a dissertation of 20,000 words on a research topic to be determined in consultation with the supervisor. Students are required to attend Postgraduate Seminars and to give at least one work-in-progress seminar over the course of their candidature.
INTERNATIONAL RELATIONS

COURSES OFFERED

The following postgraduate courses are available:

1. Master of Arts
2. Master of Arts (Honours)
3. Doctor of Philosophy

POSTGRADUATE PROGRAM

International Relations

CURRENT RESEARCH AREAS

Research can be supervised in 1998 in diverse aspects of International Relations, focusing primarily (but not exclusively) on the Asia-Pacific region.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN INTERNATIONAL RELATIONS

leading to the Master of Arts.

<table>
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<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
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<td>INTR900</td>
<td>International Law and Diplomacy</td>
<td>8</td>
</tr>
<tr>
<td>INTR910</td>
<td>Politics of International Relations</td>
<td>8</td>
</tr>
<tr>
<td>INTR920</td>
<td>Advanced International Economic Relations</td>
<td>8</td>
</tr>
<tr>
<td>INTR930</td>
<td>Organisational Behaviour</td>
<td>8</td>
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</table>

Elective Subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTR901</td>
<td>Practical Diplomacy</td>
</tr>
<tr>
<td>INTR911</td>
<td>Politics in the South Pacific</td>
</tr>
<tr>
<td>INTR912</td>
<td>Pacific Rim and Pacific Basin</td>
</tr>
<tr>
<td>INTR921</td>
<td>Advanced International Economics</td>
</tr>
<tr>
<td>INTR922</td>
<td>Advanced Topics in Economics</td>
</tr>
<tr>
<td>INTR931</td>
<td>Strategic Planning and Policy</td>
</tr>
<tr>
<td>INTR932</td>
<td>Selected Topics in Management</td>
</tr>
<tr>
<td>INTR940</td>
<td>Case Study in International Politics A</td>
</tr>
<tr>
<td>INTR941</td>
<td>Case Study in International Politics B</td>
</tr>
<tr>
<td>INTR950</td>
<td>Australia: Making of a Nation</td>
</tr>
<tr>
<td>INTR957</td>
<td>Post-war Economic and Social Development of East Asia</td>
</tr>
<tr>
<td>INTR958</td>
<td>Selected Topics on Post-war Developments in Southeast Asia</td>
</tr>
<tr>
<td>INTR960</td>
<td>Research Project in International Relations</td>
</tr>
<tr>
<td>INTR961</td>
<td>Research Project in International Relations</td>
</tr>
</tbody>
</table>

Not all of these subjects are available each year – refer to History and Politics Program before enrolment. For further details, see Course Requirements below.

COURSE REQUIREMENTS

1. MASTER OF ARTS

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

The program is multi-disciplinary in nature, focusing on international politics, economics, management, and law and diplomatic practice, in particular, but allowing both for specialization within the program as well as for the inclusion of area studies, and other relevant subjects, in accordance with students' needs.

Students take part in regular simulations and professional seminars, workshops, exchanges with other institutions, including relevant Government agencies, and, where possible, professional placements. Special classes are provided in computing and (where appropriate) English language, study, analytical, public speaking and other skills. A special centre (with computing, video and short-wave radio facilities, plus a range of pertinent periodicals) has been set aside for use by students in the program.

48 credit points gained from subjects in the INTR schedule of postgraduate subjects (or such greater number as may be required in individual cases). Except with the permission of the Head of Program, students are required to complete the following four subjects in order to graduate in the program:

- INTR900 International Law and Diplomacy
- INTR910 Politics of International Relations
- INTR920 Advanced International Economic Relations
- INTR930 Organisational behaviour
SUBJECT DESCRIPTIONS

INTR900 International Law and Diplomacy

Spring 8 cp

Contact hrs: 3 hrs per week of lectures, seminars and tutorials.

Assessment: 7,500 words of essays and tutorial papers.

The history, theory and practice of diplomatic and consular representation in both bilateral and multilateral contexts. Detailed analyses are made of the theoretical underpinnings, legal character and practical uses of international law; the law of treaties; various forms of diplomatic exchange and agreement; formal diplomatic (non)-recognition; the opening and breaking of relations; diplomatic and consular practice including immunity; and international co-operation.

INTR901 Practical Diplomacy

Spring 8 cp

Contact hrs: 3 hrs per week lectures, seminars and tutorials.

Assessment: 7,500 words in essays and class papers.

Case-studies, simulations, workshops and interactions with practitioners. Study and use of diplomatic instruments. Negotiation and dispute resolution.

INTR910 Politics of International Relations

Spring 8 cp

Contact hrs: 3 hrs per week of lectures, seminars and tutorials.

Assessment: 7,500 words of essays and tutorial papers.

Approaches to and methods of study, theories and concepts of international relations: idealist, legal, institutional, realist, Marxist, Neo-Marxist, globalist, feminist, systems, regimes, etc. The role of international law and diplomacy. Foreign policy making and implementation. Political order and the balance of power, both international and regional. The United Nations and other international organizations. Issues, blocs, and the politics of international economic, technological and functional co-operation, including foreign aid.

INTR911 Politics in the South Pacific

Autumn 8 cp

Contact hrs: 3 hrs per week of lectures, seminars and tutorials.

Assessment: 7,500 words of essays and tutorial papers.

Politics in and among South Pacific island countries. Regional and sub-regional co-operation. Relations with external actors, including governments, international organisations and multi-national corporations. Class work and assignments provide occasions for detailed examination of particular case studies.

INTR912 Pacific Rim and Pacific Basin

Spring 8 cp

Contact hrs: 3 hrs per week of lectures, seminars and tutorials.

Assessment: 7,500 words of essays and tutorial papers.

The subject analyses aspects of relations between advanced, industrialising and less developed countries on the Pacific Rim and in the Pacific Basin. Particular attention is paid to relations, including co-operation, involving countries in Southeast Asia and the South Pacific.

The subject addresses significant issues in defence, aid, trade, investment and other kinds of international interactions. Particular attention is paid to nuclear and environmental issues, security and vulnerability; colonialism and self-determination as well as Asia-Pacific and other forms of international economic co-operation.

INTR920 Advanced International Economic Relations

Spring 8 cp

Contact hrs: 3 hrs per week lectures and tutorials.

Assessment: seminars, case studies, essay(s) and examination(s).

Aspects of some of the following topics are studied in depth: 1. Growth and Trade; 2. Factor Transfers (Foreign Investment); 3. Tariffs; 4. Import-Substituting Industrialisation; 5. Foreign Exchange Market; 6. Internal and External Balance (the two-gap model).

INTR921 Advanced International Economics

Spring 8 cp

Contact hrs: 3 hrs per week lectures and tutorials.

Assessment: essay, seminar and examination.

Topics for this subject may be drawn from any area of Economics which the Heads of the Programs concerned consider to be suitable preparation for a higher degree and appropriate to the student's special interests.

INTR922 Advanced Topics in Economics

Autumn/Spring 8 cp

Contact hrs: 3 hrs per week lectures and tutorials.

Assessment: essay, seminar and examination.

The subject analyses aspects of relations between advanced, industrialising and less developed countries on the Pacific Rim and in the Pacific Basin. Particular attention is paid to relations, including co-operation, involving countries in Southeast Asia and the South Pacific.

The subject addresses significant issues in defence, aid, trade, investment and other kinds of international interactions. Particular attention is paid to nuclear and environmental issues, security and vulnerability; colonialism and self-determination as well as Asia-Pacific and other forms of international economic co-operation.

INTR920 Advanced International Economic Relations

Spring 8 cp

Contact hrs: 3 hrs per week lectures and tutorials.

Assessment: seminars, case studies, essay(s) and examination(s).

Aspects of some of the following topics are studied in depth: 1. Growth and Trade; 2. Factor Transfers (Foreign Investment); 3. Tariffs; 4. Import-Substituting Industrialisation; 5. Foreign Exchange Market; 6. Internal and External Balance (the two-gap model).

INTR921 Advanced International Economics

Spring 8 cp

Contact hrs: 3 hrs per week lectures and tutorials.

Assessment: essay, seminar and examination.

Topics for this subject may be drawn from any area of Economics which the Heads of the Programs concerned consider to be suitable preparation for a higher degree and appropriate to the student's special interests.

INTR930 Organisational Behaviour

Autumn 8 cp

Contact hrs: 2 hrs lectures per week.

Assessment: seminars, case studies, essay(s) and examination(s).

A study of the behaviour of individuals in organisations, groups and group processes, leadership and communication, organisation design and job design, appraisal of performance, processes of organisational change and development. Application to public administration in developing countries.

INTR931 Strategic Planning and Policy

Spring 8 cp

Contact hrs: 2 hrs lectures per week.

Assessment: examination and essays.
strategy and structure and the organisational context; strategy and competitive advantage; interrelationships, diversification, integration, acquisition and internal development; global strategies.

INTR932 Selected Topics in Management A
Autumn/Spring 8 cp
Contact hrs: 2 hrs lectures per week.
Assessment: assignments, seminars, examinations.
A special topic selected from any area of management. The selection is made by the Heads of Programs concerned, taking into account the expertise of academic staff, including visiting staff, and the interests of students.

INTR940 Case Study in International Politics A
Autumn 8 cp
Contact hrs: minimum one hr/week by personal arrangement with member(s) of staff.
Assessment: 7,500 words of research papers.
This subject provides students with an opportunity to engage in detailed research on a particular aspect of international relations approved by the Co-ordinator of the Postgraduate Program in International Relations. The project may focus on an issue, an actor (or actors), or a theoretical or methodological question which the student has previously encountered through reading or practical experience. Enrolment requires the Co-ordinator's approval, and may be determined by the availability of suitably qualified staff.

INTR941 Case Study in International Politics B
Spring 8 cp
Contact hrs: minimum one hr/week by personal arrangement with member(s) of staff.
Assessment: 7,500 words of research papers.
This subject provides students with an opportunity to engage in detailed research on a particular aspect of international relations approved by the Co-ordinator of the Postgraduate Program in International Relations. The project may focus on an issue, an actor (or actors), or a theoretical or methodological question which the student has previously encountered through reading or practical experience. Enrolment requires the Co-ordinator's approval, and may be determined by the availability of suitably qualified staff.

INTR950 Australia: Making of a Nation
Spring 8 cp
Contact hrs: 3 hrs of lectures/seminars.
Assessment: 7,500 words in essays/seminar papers.
This subject provides a detailed examination of twentieth century Australia, in the light of notions of dependency and autonomy, in order to assess the extent to which nationhood has been achieved. The subject begins with an analysis of concepts of the nation, nationalism, the state and cultural identity central to the Australian settlement. Economic processes, key industries and relations with the international economy are analysed. Issues discussed include the distinctive features of modern Australian political institutions, internal and external policies, cultural traditions, and social, racial and class differences.

INTR957 Post-War Economic and Social Development of East Asia
Autumn/Spring 8 cp
Contact hrs: 3 hrs of lectures/seminars.
Assessment: 7,500 words in essays/seminar papers.
This subject traces economic and social development in East Asia since World War II. It covers major issues of economic development faced by countries of the region from the end of the colonial period to the present day and includes discussion of the colonial economic legacy, the formation of new social classes and their role in independence struggles, indicators of modernisation such as industrialisation, education, urbanisation, women and work, etc. Environmental issues are also discussed.

INTR958 Selected Topics on Post-War Developments in Southeast Asia
Spring 8 cp
Contact hrs: 3 hrs of lectures/seminars.
Assessment: 7,500 words in essays/seminar papers.
The subject examines the politics of identity in Southeast Asia using a number of case studies, particularly from Indonesia. Issues explored include the relationship between nationalism, modernity and politics, the ways history and culture are viewed by present governments, the role of minority groups, the importance of Islam and relationships between military rule and democracy.

INTR960 Research Project in International Relations
Autumn/Spring/Summer 16 cp
Contact hrs: 1hr/week by arrangement with member(s) of staff.
Pre-requisite: Honours at a minimum level of II(i) in an area of an appropriate discipline (Politics, Economics, Law, etc) involving previous study of international relations OR a minimum of a Credit in each of INTR900, 910, 920 and 930 PLUS prior submission and approval of a detailed, written research proposal.
Remarks: Not to count with INTR961.
A detailed analysis of a significant actor, issue or period in international relations, drawing on research relevant primary and other sources, bodies of theory and/or comparative materials. Enrolment requires the prior approval of the Co-ordinator of the Postgraduate Programme in International Relations and may depend on the availability of appropriate sources and suitably qualified staff.

INTR961 Research Project in International Relations
Double 16 cp
Contact hrs: 1hr/week by arrangement with member(s) of staff.
Assessment: 15,000 words research project.
Pre-requisite: Honours at a minimum level of II(i) in an area of an appropriate discipline (Politics, Economics, Law, etc) involving previous study of international relations OR a minimum of a Credit in each of INTR900, 910, 920 and 930 PLUS prior submission and approval of a detailed, written research proposal.
Remarks: Not to count with INTR960.
A detailed analysis of a significant actor, issue or period in international relations, drawing on research relevant primary and other sources, bodies of theory and/or comparative materials. Enrolment requires the prior approval of the Co-ordinator of the Postgraduate Programme in International Relations and may depend on the availability of appropriate sources and suitably qualified staff.

INTR 970 Major Thesis
Double 48 cp (24 for Part-Time)
Contact hrs: Minimum 1 hour per 2 weeks by arrangement with supervisor(s).
Assessment: Thesis only, following satisfactory completion of such pre-requisites as may be required.
Pre-requisite: Honours at a minimum level of II(iii) in an appropriate discipline (Politics, Economics, Law, etc) involving previous study of international relations, generally with a substantial multidisciplinary component OR a minimum of a credit average in the Master of Arts in International Relations, including a Credit in INTR 950 or INTR 961 Research Project in International Relations. OR the equivalent.
The subject consists of research, on an approved topic in the area of international relations, broadly defined, including preparation of a detailed proposal outlining objectives, methodology and sources. Both the subject of the thesis and the methodology employed will generally draw on multi- or inter-disciplinary perspectives. Students are required to participate in a regular Postgraduate Seminar series.
MARITIME POLICY

COURSE OFFERED

The following postgraduate course is available:

1. Master of Arts
2. Master of Arts (Honours)
3. Doctor of Philosophy

POSTGRADUATE PROGRAM

Maritime Policy

CURRENT RESEARCH AREAS

Research covers diverse aspects of maritime policy, focusing primarily, but not exclusively, on the Asia Pacific Region, and including national oceans policy, naval history, maritime regimes and regional maritime co-operation.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN MARITIME POLICY

leading to the Master of Arts.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>MPOL901</td>
<td>National Dimensions of Maritime Policy</td>
<td>8</td>
</tr>
<tr>
<td>MPOL902</td>
<td>International Issues in Maritime Policy</td>
<td>8</td>
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</table>

Compulsory Core Subjects:

Elective Subjects:

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<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>MPOL911</td>
<td>Maritime Transport I: International Shipping</td>
<td>8</td>
</tr>
<tr>
<td>MPOL912</td>
<td>Maritime Transport II: Port Development</td>
<td>8</td>
</tr>
<tr>
<td>MPOL920</td>
<td>Marine Environmental Management</td>
<td>8</td>
</tr>
<tr>
<td>MPOL921</td>
<td>Marine Environmental Planning</td>
<td>8</td>
</tr>
<tr>
<td>MPOL931</td>
<td>International Maritime Environmental Law</td>
<td>8</td>
</tr>
<tr>
<td>MPOL932</td>
<td>The Law of the Sea</td>
<td>8</td>
</tr>
<tr>
<td>MPOL941</td>
<td>History and Politics of Sea Power</td>
<td>8</td>
</tr>
<tr>
<td>MPOL951</td>
<td>Selected Topics in Maritime Policy (1)</td>
<td>8</td>
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<tr>
<td>MPOL952</td>
<td>Selected Topics in Maritime Policy (2)</td>
<td>8</td>
</tr>
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<td>MPOL960</td>
<td>Research Project in Maritime Policy</td>
<td>8</td>
</tr>
<tr>
<td>MPOL961</td>
<td>Research Project in Maritime Policy</td>
<td>16</td>
</tr>
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</table>

Students may, with the permission of the Course Co-ordinator, apply to enrol in other subjects in the Postgraduate Calendar relevant to maritime policy.

1 Not all of these subjects may be available each year – refer to History and Politics Program before enrolment.
For further details, see Course Requirements below.

COURSE REQUIREMENTS

The postgraduate program in Maritime Policy is offered by the History and Politics Program. This program, the first of its kind in the Asia Pacific region, is intended to provide professionally relevant academic training for a variety of different policy analysts, including advisers in government, the private sector, and non-governmental organisations, in relation to a wide range of maritime issues.

Conducted in close co-operation with the Maritime Policy Centre, the course is intended to provide opportunities for students of diverse professional and academic backgrounds to mix and exchange ideas relevant to policy making, analysis and implementation.

Depending on each student's educational qualifications and work experience, students are required to complete at least 48 credit points in subjects, including the two core subjects, in the Maritime Policy schedule and other approved postgraduate subjects (or such greater number as may be required in individual cases).

MASTER OF ARTS

The degree is intended to enable groups of varying academic and professional backgrounds to develop their knowledge and analytical skills in relation to a wide range of maritime policy issues, broadly defined. The program is expected to be especially useful to prospective government officials, analysts and other practitioners engaged in maritime and related activities, including the Navy, commercial shipping, port management, fisheries and marine environmental protection.

The program consists of an interdisciplinary core of two compulsory subjects, plus a range of options which allow students to specialise in particular disciplines, and to acquire a broader acquaintance with the field as a whole.

In addition to formal course requirements, students take part in a variety of other professional activities, including specialist seminars.

1 MASTER OF ARTS (HONOURS)
2 DOCTOR OF PHILOSOPHY
Students who have qualified for admission to the Degree of Master of Arts with Honours or Doctor of Philosophy in Maritime Policy should enrol in MPOL 970 Major Thesis in Maritime Policy. Minimum time for the Master of Arts (Honours) is one year of full-time study, and for the Doctor of Philosophy it is three years.

### SUBJECT DESCRIPTIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Type</th>
<th>ECTS</th>
<th>Years</th>
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<tr>
<td>MPOL901</td>
<td>National Dimensions of Maritime Policy</td>
<td>Autumn</td>
<td>8 cp</td>
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<td>MPOL902</td>
<td>International Issues in Maritime Policy</td>
<td>Spring</td>
<td>8 cp</td>
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<td>Maritime Transport I: International Shipping</td>
<td>Autumn</td>
<td>8 cp</td>
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<td>MPOL912</td>
<td>Maritime Transport II: Port Development</td>
<td>Spring</td>
<td>8 cp</td>
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<tr>
<td>MPOL920</td>
<td>Marine Environmental Management</td>
<td>Spring</td>
<td>8 cp</td>
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<td>MPOL921</td>
<td>Marine Environmental Planning</td>
<td>Autumn</td>
<td>8 cp</td>
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<td>International Maritime Environmental Law</td>
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<td>The Law of the Sea</td>
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<td>8 cp</td>
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<tr>
<td>MPOL941</td>
<td>History and Politics of Sea Power</td>
<td>Autumn</td>
<td>8 cp</td>
<td></td>
</tr>
<tr>
<td>MPOL951</td>
<td>Selected Topics in Maritime Policy (1)</td>
<td>Spring</td>
<td>8 cp</td>
<td></td>
</tr>
<tr>
<td>MPOL952</td>
<td>Selected Topics in Maritime Policy (2)</td>
<td>Autumn</td>
<td>8 cp</td>
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</tbody>
</table>

### Assessment

- **MPOL901** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: essays and seminar papers.
- **MPOL902** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: essays and tutorial papers.
- **MPOL911** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: essays and tutorial papers.
- **MPOL912** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: Essays and tutorial papers.
- **MPOL920** Contact hrs: 56 hrs lecture/seminar per session. Pre-requisite: Students would normally be expected to have completed an undergraduate degree with a significant science component. Assessment: Essays, research report and final examination.
- **MPOL921** Contact hrs: 66 hrs lecture/seminar per session. Assessment: Essays, research report and final examination.
- **MPOL931** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: Essays and seminar papers.
- **MPOL932** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: Essays and seminar papers.
- **MPOL941** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: Essays and seminar papers.
- **MPOL951** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: Essays and seminar papers.
- **MPOL952** Contact hrs: 3 hrs per week of lecture/seminar. Assessment: Essays and seminar papers.

- **MPOL951** Spring 8 cp
- **MPOL952** Spring 8 cp
MPOL960 Research Project in Maritime Policy
Autumn/Spring/Summer 16 cp
Contact hrs: minimum 1 hr per week by arrangement with member(s)
of staff.
Assessment: 15,000 words, research project.
Pre-requisite: Honours at a minimum level of II(ii) in an area of an
appropriate discipline (Politics, Law, Environmental Science etc)
involving previous study of maritime policy OR achievement of a
minimum of a Credit in each of MPOL901, and 902 PLUS prior
submission and approval of a detailed, written research proposal.
Co-requisite: None
Remarks: Not to count with MPOL 961
A detailed analysis of a significant aspect of or issue in maritime
policy, drawing on research into relevant primary and other sources,
bodies of theory, methodological questions and/or comparative
materials. Enrolment requires the prior approval of the Course Co­
ordinator and may depend on the availability of appropriate sources
and suitably qualified staff.

MPOL961 Research Project in Maritime Policy
Double 16 cp
Contact hrs: minimum 1 hr per week by arrangement with member(s)
of staff.
Assessment: 15,000 words, research project.
Pre-requisite: Honours at a minimum level of II(ii) in an area of an
appropriate discipline (Politics, Law, Environmental Science etc)
involving previous study of maritime policy OR achievement of a
minimum of a Credit in each of MPOL901, and 902 PLUS prior
submission and approval of a detailed, written research proposal.
Co-requisite: None
Remarks: Not to count with MPOL 960
A detailed analysis of a significant aspect of or issue in maritime
policy, drawing on research into relevant primary and other sources,
bodies of theory, methodological questions and/or comparative
materials. Enrolment requires the prior approval of the Course Co­
ordinator and may depend on the availability of appropriate sources
and suitably qualified staff.

MPOL970 Major Thesis in Maritime Policy
Double 48 cp (24 for Part-Time)
Contact hrs: At least 1 hr per 2 weeks by arrangement with
supervisor(s).
Assessment: Thesis only, following such pre-requisites as may be
required.
Consists of research, including preparation of a detailed proposal
outlining objectives, methodology and sources, for an original,
substantial contribution to scholarship. The thesis subject, which must
be approved before enrolment, concerns an aspect (or aspects) of
maritime policy, broadly defined. The research will generally be multi­
or inter-disciplinary. Students will be required to attend and present
work-in-progress papers to a regular postgraduate seminar series.
MODERN LANGUAGES

The Modern Languages Program offers a range of undergraduate programs in French, Italian and Japanese. The Program has a strong commitment to research and accepts postgraduate students in French, Italian and Japanese. In recent years, computer-aided language learning has been one of the focal points of Programal research.

FACILITIES

The Program has a fully equipped language laboratory and private study laboratory. There is also a computer laboratory for language learners. The Program has extensive collections of recorded audio and video materials in French, Italian, Spanish and Japanese.

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Arts by Research
3. Graduate Diploma in Arts (French or Italian)
4. Graduate Diploma in Arts (Japanese)

Doctor of Philosophy
Refer to Course Offerings for details regarding the Doctor of Philosophy.

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Arts degree by research and the Doctor of Philosophy degree:

French History
19th Century French novel
Society and medicine in the novels of Balzac
European minorities
Computer-aided language learning (French, Italian, Spanish, Japanese)
Linguistics applied to the teaching of French, English and Japanese as a second language
Intonation analysis
Language teaching methodology and materials development at the secondary and tertiary levels
20th Century Italian novel and society
Private life in 13th and 14th century Italian novellistica
Italo-Australian studies
Italian lexicography
Translation (English-Italian, Italian-English)
Contrastive linguistics: English-Italian
Systemic functional linguistics: Japanese
Japanese language education
Japanese theatre and literature
Japanese economic and social issues
English for Academic Purposes
Occitan Culture

HONOURS MASTER OF ARTS

Students entering the program with an Honours degree at a standard of at least Class II, Division 2 will be required to complete a major thesis.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN975</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
<tr>
<td>ITAL975</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
<tr>
<td>JAPA975</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

Graduate Diploma in Arts (French or Italian)

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

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

Graduate Diploma in Arts (Japanese)

BA (Japanese) and BA/BCom (Japanese) graduates who qualify and are accepted for entry into the Graduate Diploma in Arts (Japanese) take the following subject:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPA560</td>
<td>Japanese Studies Abroad</td>
<td>48</td>
</tr>
</tbody>
</table>

This diploma is only available to graduates in Japanese studies from the University of Wollongong.
PHILOSOPHY

COURSES OFFERED
The following postgraduate courses are available:

1. Graduate Diploma in Arts
2. Master of Arts (Applied Ethics)
3. Honours Master of Arts by Research
4. Doctor of Philosophy

POSTGRADUATE PROGRAMS

Philosophy

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Arts degree by research and the Doctor of Philosophy degree:

Ethics
The theory of responsibility; moral absolutism; rights theory; virtues and vices; moral reasoning; consequentialism; autonomy; issues in moral psychology, eg weakness and strength of will, moral motivation; metaethics, eg truth, relativism and objectivity in ethics.

Applied Ethics
Bioethics, including feminist bioethics; legal ethics; ethics in public policy; environmental ethics.

Philosophy of the Arts
The theory of what is art.

Philosophy of Law
Legal and political obligation; natural law theory; issues of criminal liability and responsibility.

Political Philosophy
Liberalism; theories of property; citizenship; privacy issues; consent theory; self-determination and secession; theories of justice; issues in feminist political theory.

Theory of Knowledge
Knowledge and theories of justification; theories of perception; self-knowledge and first-person authority.

Metaphysics
Personal identity theory; identity; realism and irrealism; primary and secondary qualities; Kantian and neo-Kantian metaphysics.

Philosophy of Language
Theories of content, interpretation and communication; theories of truth; speech-act theory; theories of vagueness and ambiguity.

Logic
Logics of indeterminacy and indefiniteness; deviant logics.

Philosophy of Mind and Action
Theories of the mind; theories of intention and agency; accounts of motivation; issues in philosophical psychology, eg self-deception, propositional attitudes and akrasia, irrationality and the divided mind.

Philosophy of Emotion
The nature and epistemology of emotions; reason and passion; emotions and morality.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN PHILOSOPHY

leading to the Honours Master of Arts or Master of Arts (Applied Ethics).

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<tr>
<th>Number</th>
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<tr>
<td>(i)</td>
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<td>PHIL999</td>
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<td>(ii)</td>
<td>Master of Arts (Applied Ethics)</td>
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<td>PHIL965</td>
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<td>PHIL976</td>
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<tr>
<td>PHIL986</td>
<td>Applied Ethics Topics</td>
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PHIL995 Environmental Ethics

For further details, see Course Requirements below.

**OTHER POSTGRADUATE SUBJECTS**

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<tr>
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<tr>
<td>PHIL999</td>
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</table>

**COURSE REQUIREMENTS**

1. **GRADUATE DIPLOMA IN ARTS**

The purpose of the Graduate Diploma in Arts is to provide, in a recognised University course, a means for graduates with limited acquaintance with logic and philosophy to acquire competence in these subjects at a reasonably advanced level. The Graduate Diploma shall be subject to the University Course Rules for the award of Graduate Diplomas together with the following conditions.

1. Candidates are required to complete subjects totalling 48 credit points from those listed in the General or the Arts Schedules under 'Philosophy'. Of these at least 24 must be from 300-level subjects and the remainder from 200-level subjects.

2. A candidate may not include in his or her graduate diploma program any course component which substantially duplicates a subject or part of a subject previously passed by the candidate as part of any degree or diploma already held or previously attempted.

3. The selection of courses and the program of study shall be approved by the Head of the Program.

4. A full-time candidate shall normally complete the diploma in one academic year, a part-time candidate in no less than two and no more than three academic years.

5. Admission to candidature for the Graduate Diploma is on the recommendation of the Head of the Philosophy Program who shall assess the applicant's aptitude for sustained philosophical study at a reasonably advanced level.

2. **MASTER OF ARTS (APPLIED ETHICS)**

The Master of Arts (Applied Ethics) aims to provide professionals and others who have a general interest in applied ethics with a philosophical education in one or more areas of applied ethics. Applied areas on offer in 1998 (subject to enrolments) are: Bioethics, Ethical Issues in Research, Applied Ethics Topics and Environmental Ethics.

It has become increasingly obvious with the proliferation of ethics committees and the demand for public accountability that health care professionals, public policy makers, lawyers, public servants, business people, scientists, researchers, and so on, are required to make well-reasoned, informed judgements about issues that are essentially ethical. Such judgements require philosophical expertise - one needs to be able to recognize the factual and evaluative complexity of the issues, to recognize evaluative issues as evaluative, critically to evaluate competing ethical claims, and to reason to a conclusion soundly. Yet the development of such expertise is typically not included in the professional training of people who are called to act as ethical decision-makers. The Master of Arts (Applied Ethics) helps make good this lack.

It would be expected that students undertaking the course would benefit at least in the following ways. First, they would sharpen their critical reasoning skills. Second, they would gain a good grounding in ethical theory and a comprehensive understanding of the specific issues in their chosen applied area. Third, they would enhance their ability to make difficult, ethically sensitive decisions.

The Master of Arts (Applied Ethics) is a course in applied philosophy, in which ethical theory, as studied in a core subject (PHIL955 - Theoretical Ethics) is applied to various areas of practical concern. The course may be co-taught by members of the Philosophy Program and lecturers from the Faculties of Law and Health and Behavioural Sciences.

Candidature is open to holders of a Bachelor's degree (pass or honours) in any field or others who satisfy the Board of Research and Postgraduate Studies of comparable professional standing or attainments. The Degree is available by Coursework and Minor Thesis.

Candidates shall successfully complete a program of 48 credit points, normally comprising a minor thesis (24 credit points) in applied ethics, together with the two core subjects (8 credit points each) PHIL935 and PHIL955 and one elective (4 credit points) from PHIL965, PHIL976, PHIL986 and PHIL995. Candidates who have done PHIL206, or equivalent, are required to take one core subject PHIL955 and two electives. Candidates who have done PHIL251/301, or equivalent, are required to take one core subject PHIL935 and two electives.

3. **HONOURS MASTER OF ARTS**

Honours Master of Arts by Research

The purpose of the Honours Master of Arts by research is to enable suitably qualified graduates to make a significant independent contribution to Philosophy. Graduates who hold an Honours Bachelor degree (with a minimum of Honours Class II, Division 2) or equivalent may, if recommended for candidacy, undertake PHIL999 Major Thesis (48 credit points). All other candidates must, if recommended for admission, normally complete PHIL913 Advanced Philosophical Topics (48 credit points) with an average grade of distinction or better prior to enrolling in PHIL999.

4. **DOCTOR OF PHILOSOPHY**

For this degree, candidates enrol in the subject PHIL999 Thesis.
**PHIL913 Advanced Philosophical Topics**  
Double 48 cp  
Contact hrs: variable combination of seminars, lectures and lecture/discussions. 
Pre-requisites: entry is restricted to students seeking admission to the Honours Masters degree who do not have at least an Honours Class II, Division 2 degree in Philosophy but have attained an average of credit or better in their post-100 level undergraduate philosophy subjects. 
Assessment: essays and written examinations. 
An approved or prescribed selection of courses provided by the Program under other designations deemed by the Head of the Program to be appropriate as a foundation for postgraduate studies, given the background and intended pursuits of the individual student.

**PHIL923 Minor Thesis**  
Double 24 cp

**PHIL935 Applied Ethics**  
Autumn 8 cp  
Contact hrs: 3 hrs per week. 
Pre-requisite: Bachelor degree (pass or honours) in any field, or equivalent. Not to count with PHIL 206. 
Assessment: major research assignment, seminar participation and 2 papers. 
A systematic study of a range of problems of applied ethics. Among the topics for discussion will be a selection of the following: Discrimination and Affirmative Action; Abortion; Sexual Issues; Warfare; Suicide and Death.

**PHIL955 Theoretical Ethics**  
Spring 8 cp  
Contact hrs: 3 hrs per week. 
Pre-requisite: Bachelor or equivalent. Not to count with PHIL251 or PHIL301. 
Assessment: major research assignment, seminar participation and 2 papers. 
A systematic study of some central issues in moral philosophy and moral psychology. Among the topics for discussion will be a selection of the following: subjectivist and objectivist theories of morality; facts and values; moral realism; consequentialism; virtues and vices; evaluative thinking and motivation; morality and self-interest.

**PHIL965 Bioethics**  
Spring 8 cp  
Contact hrs: 3 hrs lecture/discussion per week. 
Pre-requisite: Bachelor degree or equivalent. 
Assessment: Major research assignment, seminars. 
Systematic study of a range of bioethical problems. Topics will include: euthanasia; physician-assisted suicide; reproduction technology; anonymous donor programs; genetic counselling, screening and testing; surrogacy; embryo and fetal research; health resources allocation; organ transplantation; experimentation involving human subjects; research involving animals; the nature of professional ethics.

**PHIL976 Ethical Issues in Research**  
Autumn 8 cp  
Contact hrs: 3 hrs seminar per week. 
Pre-requisite: Bachelor degree (pass or honours) in any field, or equivalent. 
Assessment: Research project, 2 seminars. 
Examines areas of ethical concern in different kinds of research involving human subjects or participants and justifications for such research. Topics discussed include: consent; confidentiality; fraud; disadvantaged participants; use of research findings; institutional ethics committees; codes of research practice and responsibilities in research.

**PHIL986 Applied Ethics Topics**  
Autumn 8 cp  
Contact hrs: 3 hrs per week. 
Pre-requisite: Bachelor degree or equivalent. 
Assessment: Essays/seminars equivalent to 5,500 words. 
Offers students enrolled in the MA (Applied Ethics) the opportunity to investigate applied ethics issues at an advanced level. Students wishing to enrol must discuss their proposal with the Head of Program. Normally this is a reading program. Content and assessment is determined by the supervisor and student.

**PHIL990 Feminist Political Philosophy**  
Autumn 8 cp  
Contact hrs: 3 hrs lecture/seminar per week. 
Pre-requisite: Bachelor degree or equivalent. 
Assessment: Essays equivalent to 5,500 words; seminar. 
Examination of themes in feminist political philosophy. Explores the roles envisaged for women in liberal, communitarian and socialist political theory and feminist engagement with these theories. Emphasis is on tensions between ideals of citizenship and civic life and roles ascribed to women in reproduction, domestic life and 'the private'.

**PHIL995 Environmental Ethics**  
Spring 8 cp  
Contact hrs: 3 hrs per week. 
Pre-requisite: Bachelor degree or equivalent. Not to count with PHIL256. 
Assessment: major research assignment, seminar participation and 2 papers. 
A systematic study of problems in environmental ethics. Topics include the place of humankind in nature; the status of non-human animals and their use in research and as food; our moral obligations to the 3rd world and to future generations; 'deep' versus 'shallow' theories of environmental ethics.

**PHIL999 Major Thesis**  
Double 48 cp
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Arts by Research
3. Master of Arts

POSTGRADUATE PROGRAM

Politics

CURRENT RESEARCH AREAS

Areas in which research can be supervised in 1998 include aspects of the following:

- Australian politics, including public policy and foreign relations
- Comparative politics
- International relations
- Politics of development/underdevelopment
- Politics in state socialist societies
- South Pacific politics
- United States politics
- Political theory
- Mass media
- Urban politics
- Australian political thought

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN POLITICS

leading to the Master of Arts.

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<tr>
<th>Number</th>
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<tbody>
<tr>
<td>POL902</td>
<td>Advanced Topics in Australian Politics</td>
<td>12</td>
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<tr>
<td>POL903</td>
<td>Issues in Australian Public Policy</td>
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<td>POL914</td>
<td>Power and the Modern State</td>
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<td>POL922</td>
<td>Advanced International Relations</td>
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<td>POL931</td>
<td>From Revolution to Reform in CIS, Eastern and Central Europe</td>
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<td>POL932</td>
<td>Contemporary Chinese Politics</td>
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<td>POL941</td>
<td>Government and Politics in the South Pacific Islands Region</td>
<td>12</td>
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<tr>
<td>POL984</td>
<td>Power and the Modern State: Advanced Topics</td>
<td>8</td>
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For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

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<th>Credit Points</th>
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<tr>
<td>POL951</td>
<td>Major Thesis</td>
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</tbody>
</table>

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in POL951.

2. HONOURS MASTER OF ARTS

Candidates for this degree enrol in POL951.

3. MASTER OF ARTS

The Master of Arts program is intended to enable graduates with suitable grounding in Politics and/or related disciplines (such as History, Philosophy, Sociology, Law, Economics) to undertake advanced studies in Politics, either for its own sake or as a relevant background to careers in social science teaching, public administration, journalism, and public affairs in government and the private sector.

Intending applicants should consult the Professor of Politics before enrolling in order to ascertain their eligibility as well as the subjects on offer each year.

Course requirements are a minimum of 48 credit points chosen from the Politics schedule. Teaching will emphasise small-group discussions, flexibility and independence.
POL902 Advanced Topics in Australian Politics
Autumn 12 cp
Contact hrs: 3 hrs per week lectures and tutorials.
Assessment: 9,000 words of essays and tutorial papers.
Provides opportunities for detailed study at an advanced level of significant issues, institutions and processes affecting politics in Australia. The focus is on public policy and the exploration of significant theoretical questions. Systematic comparisons are made with other advanced industrial countries. Students are helped and encouraged to undertake small-scale research projects of their own.

POL903 Issues in Australian Public Policy
Spring 12 cp
Contact hrs: 4 hrs per week lectures and tutorials.
Assessment: Review, essay, critique and research paper.
Examines, at an advanced level, the policy options for Australian Governments in the 1990s in the light of contemporary policy debates. The Industrial Relations reform, equal opportunities, tariff policy, privatisation, reducing the size of the government sector, deregulation and environmentally sustainable growth. Focuses on Government - industry relations and the options for politically achievable macro and micro reform. Consideration will be given to the limitations created by the structure of the international political system.

POL914 Power and the Modern State
Spring 12 cp
Contact hrs: 3 hrs per week lectures and tutorials.
Assessment: 9,000 words in essays and tutorial papers.
Examines the nature and exercise of power in the modern state. Surveys contemporary liberal, socialist and conservative writings on power and the state in modern advanced industrial countries including Australia and countries in Europe, East Asia and North America. Analyses concepts such as authority, processes such as legitimation, and relationships between classes, interest groups, social movements and the state. Students pay close attention to issues in which they have particular interest, experience and/or expertise.

POL922 Advanced International Relations
Spring 12 cp
Contact hrs: 3 hrs per week, lectures, seminars and tutorials.
Assessment: 9,000 words in essays, seminar and tutorial papers.
This subject analyses theories, concepts and approaches to the advanced study of international relations, including globalism and feminist perspectives. Competing conceptions of and change in the international order are examined. Alliances, blocs and other forms of international co-operation are discussed. Issues studied include: security, diplomacy, foreign policy-making, human rights, the role of government in international economic relations, non-governmental organisations and multi-national corporations. The subject focuses on Australia and the Asia-Pacific region(s).

POL931 From Revolution to Reform in CIS, Eastern and Central Europe
Autumn 12 cp
Contact hrs: 3 hrs per week lectures and tutorials.
Assessment: 9,000 words in essays and tutorial papers.
Examines the collapse of reforms in state socialist countries in the CIS, Eastern and Central Europe. Analyses reasons for the loss of legitimacy of Leninist political systems and the role of social movements in the crisis of state socialism. Examines the implications of changes in the domestic and foreign policies of the former nations of the USSR and Eastern and Central Europe for the 'Balance of Power' in international relations.

POL932 Contemporary Chinese Politics
Spring 12 cp
Contact hrs: 4 hrs per week lectures and tutorials.
Assessment: Essays, tutorial paper, journal.
Examines the reasons for reform in the government and administration of the Peoples' Republic of China. Issues studied include foreign policy, the role of ideology, the legacy of Mao Zedong, the Communist Party, law and policing, the role of intellectuals, theoretical debates in political economic policy, approaches to technological modernisation, industrial organisation, gender and family policy and problems of rural and urban life.

POL941 Government and Politics in the South Pacific Islands
Autumn 12 cp
Contact hrs: 3 hrs per week lectures, seminars and tutorials.
Assessment: 9,000 words in essays, seminar and tutorial papers.
Analyses pre-colonial and colonial politics and government in the Pacific island countries. Particular attention is paid to nationalism, decolonisation, constitution-making, independence, and post-independence political arrangements, including challenges to the authority of successor states. The role and impact of external forces (aid donors, lenders, investors, etc) are discussed. Students are encouraged to undertake detailed case-studies of particular issues, institutions, countries or regions.

POL984 Power and the Modern State: Advanced Topics
Spring 8 cp
Contact hrs: 3 hrs of lectures/tutorials.
Assessment: 7,500 words in essays/tutorial papers.
Examines the nature and exercise of power in the modern state. Surveys contemporary liberal, socialist and conservative writings on power and the state in modern advanced industrial countries including Australia and countries in Europe, East Asia and North America. Analyses concepts such as authority, processes such as legitimation, and relationships between classes, interest groups, social movements and the state. Students pay close attention to issues in which they have particular interest, experience and/or expertise.

POL951 Major Thesis
Double 48 cp
Assessment: Thesis.
In addition to completing a major thesis, in close consultation with their appointed supervisor(s), postgraduate students are required to attend postgraduate seminars and to give work-in-progress seminars at least once a year. Students may also be required to complete such coursework as the Professor of Politics, acting in consultation with the supervisor(s), shall determine.
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Graduate Diploma in Arts

POSTGRADUATE PROGRAMS

Science and Technology Studies

CURRENT RESEARCH AREAS

The following areas of research available to candidates undertaking the Doctor of Philosophy degree include:

**History, Philosophy and Sociology of Science, Medicine and Technology**
- origins of modern science 1500-1900
- evolutionary theory in the 19th century
- scientific controversy and the sociology of knowledge
- history and sociology of technology
- women and science
- politics of medicine and health
- law, science and technology

**Technology Dynamics and Social Relations of Technology**
- social and economic contexts of technological change
- social impacts and politics of information and communications technology
- work, automation and employment
- artificial intelligence and social control
- technical controversies and political intervention

**Environmental Politics and Controversy**
- environmental politics
- philosophy of environmental economics
- risk assessment and the politics of hazard
- energy strategies and organisation for sustainable development
- engineering paradigms and environmental design and politics
- the history, politics and construction of environmental health

**Policy Studies of Science, Technology, Medicine and the Environment**
- technology and economics
- innovation policy analysis
- peace, war and technology
- analysis of social movement strategies
- politics of free speech

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in STS999.

2. GRADUATE DIPLOMA IN ARTS

The aim of this course is to enable graduates with a limited acquaintance with the history and philosophy of science and technology or the role of science and technology in contemporary society, to acquire an understanding of these subjects to a reasonably advanced level. The Graduate Diploma shall be subject to the Course Rules for the Award of Graduate Diplomas together with the following conditions:

1. candidates are required to complete subjects totalling 48 credit points from those listed in the Arts Schedule under 'Science and Technology Studies'. Of these at least 24 must be from 300-level subjects and the remainder from 200-level subjects. Subject to the joint approval of the Head of the Science and Technology Studies Program and the Head of the other program concerned, 12 credit points may be taken from suitable subjects listed in the Arts Schedule under other Programs;
2. a candidate may not include in his or her graduate diploma program any course component which substantially duplicates a subject or part of a subject previously passed by the candidate as part of any degree or diploma already held or previously attempted;
3. the selection of courses and the program of study shall be approved by the Head of Program;
4. a full-time candidate shall normally complete the graduate diploma in one academic year, a part-time candidate in no less than two and no more than three academic years;
5. admission to candidature for the Graduate Diploma is on the recommendation of the Head of the Science and Technology Studies Program.
SUBJECT DESCRIPTIONS

STS901 Theories and Methods of Science and Technology Studies
Autumn
12 cp
Contact hrs: 3 hrs seminars per week.
Students will study topics appropriate to their field of special interest, subject to the approval of the Head of Program.

STS902 Advanced Topics in Science and Technology Studies
Autumn/Spring
12 cp
Contact hrs: 3 hrs seminars per week.
Students will study topics appropriate to their field of special interest, subject to the approval of the Head of Program.

STS903 Minor Thesis
Autumn/Spring
24 cp
Contact hrs: 3 hrs per week.
A thesis embodying the results of an original investigation under the supervision of a staff member. The topic and programme of research must be approved by the Head of Program.

STS909 Topics in History of Western Science and Technology
Autumn/Spring
12 cp
Contact hrs: 3 hrs per week lecture/seminars.
This subject introduces the methods and interpretative tools of the history of Western science and technology. Topics are selected to allow exploration of key periods, central theoretical debates, and new perspectives and work. They may include: science, technology and society in Medieval, Renaissance and Early Modern Europe; technology dynamics, innovation and social change since the Industrial Revolution; the dynamics of modern science and technology, and relations between history of science and history of technology.

STS910 Gender and Body Politics
Autumn
8 cp
Contact hrs: 3 hrs lecture/seminar per week.
The past generation has witnessed the demise of traditional master narratives of scientific progress and rationality. Previously received cultural understandings of science and its history have become objects of study in a new, critical history and sociology of science. This subject surveys the previously received narratives and examines their deconstruction in the work of Bachelard, Canguilhem, Foucault, Kuhn, Popper, Feyerabend, and sociologists of scientific knowledge such as Collins, Latour and Shapin.

STS914 Master Narratives, Myth and Symbolic Politics in Science
Spring
12 cp
Contact hrs: 3 hrs per week.
The past generation has witnessed the demise of traditional master narratives of scientific progress and rationality. Previously received cultural understandings of science and its history have become objects of study in a new, critical history and sociology of science. This subject surveys the previously received narratives and examines their deconstruction in the work of Bachelard, Canguilhem, Foucault, Kuhn, Popper, Feyerabend, and sociologists of scientific knowledge such as Collins, Latour and Shapin.

STS931 Risk Assessment, Health and Safety
Autumn
12 cp
Contact hrs: 3 hrs per week lecture/seminars.
This subject examines the social, economic and political processes through which environmental policy is negotiated and instituted. One or more areas of technological development and its environmental impact are taken as case studies. Themes and theoretical perspectives may include: politics and sociology of scientific controversy; state regulation and intervention; global, national and regional developments in environmental regulation; and decision-making and negotiation in environmental strategies.

STS933 Energy and Technological Development
Autumn
12 cp
Contact hrs: 3 hrs per week.
This subject considers the politics of energy resources and technologies and of the social and environmental impacts of their use in Australia, the region and the world. It examines the development of current patterns of energy provision, the social forces which have shaped and controlled them, and debates and decisions on energy futures. It compares different theoretical approaches for explaining these processes and debates, and for informing intervention in them.

STS934 Genetics and Technological Innovation
Autumn
12 cp
Contact hrs: 3 hrs per week.
This subject examines the development, impact and social context of molecular biology and genetic engineering. Topics may include: the development of a model for DNA; development of recombinant DNA techniques; Asilomar and safety; corporate influence on molecular biology, ethical and political issues in genetic screening and genetic engineering; regulation of biotechnology and social control of research priorities; legal and moral issues in the patenting of life forms; the human genome project; the release of recombinant organisms; and biotechnology industry in Australia.

STS936 Critical Studies in Medicine and Health Care
Spring
12 cp
Contact hrs: 3 hrs per week.
This subject explores the social, economic and political dimensions of medicine and health care: the forces shaping them, their for those involved in managing, or developing policies for, science and technology.

STS924 Major Thesis
Double
48 cp
Contact hrs: 2 hrs per week.
A thesis embodying the results of a significant and original investigation under the supervision of a staff member. The programme of research must be approved by the Head of Program.

STS929 Studies in Resource and Environmental Policy
Autumn
8 cp
Contact hrs: 1 hr lecture, 2 hr tutorial.
This subject examines the social, economic and political processes through which environmental policy is negotiated and instituted. One or more areas of technological development and its environmental impact are taken as case studies. Themes and theoretical perspectives may include: politics and sociology of scientific controversy; state regulation and intervention; global, national and regional developments in environmental regulation; and decision-making and negotiation in environmental strategies.

STS931 Risk Assessment, Health and Safety
Spring
12 cp
Contact hrs: 3 hrs per week.
This subject examines the social, economic and political processes through which environmental policy is negotiated and instituted. One or more areas of technological development and its environmental impact are taken as case studies. Themes and theoretical perspectives may include: politics and sociology of scientific controversy; state regulation and intervention; global, national and regional developments in environmental regulation; and decision-making and negotiation in environmental strategies.

STS933 Energy and Technological Development
Spring
12 cp
Contact hrs: 3 hrs per week.
This subject considers the politics of energy resources and technologies and of the social and environmental impacts of their use in Australia, the region and the world. It examines the development of current patterns of energy provision, the social forces which have shaped and controlled them, and debates and decisions on energy futures. It compares different theoretical approaches for explaining these processes and debates, and for informing intervention in them.

STS934 Genetics and Technological Innovation
Spring
12 cp
Contact hrs: 3 hrs per week.
This subject examines the development, impact and social context of molecular biology and genetic engineering. Topics may include: the development of a model for DNA; the development of recombinant DNA techniques; Asilomar and safety; corporate influence on molecular biology, ethical and political issues in genetic screening and genetic engineering; regulation of biotechnology and social control of research priorities; legal and moral issues in the patenting of life forms; the human genome project; the release of recombinant organisms; and biotechnology industry in Australia.

STS936 Critical Studies in Medicine and Health Care
Spring
12 cp
Contact hrs: 3 hrs per week.
This subject explores the social, economic and political dimensions of medicine and health care: the forces shaping them, their
implications and their limitations. Themes and topics may include: the shaping of medical knowledge and discourses, and concepts of health and sickness; institutions and markets; evaluation of new remedies; technological innovation; health and medical policies; the politics of cancer; health in the workplace; ethical dilemmas; critiques of conventional medicine and health care; alternative health practices.

**STS946 Management of Technological Change**

*Spring*

Contact hrs: 3 hrs per week.

This subject examines concepts and techniques available for managing technology in private and public sector organisations in the context of the changing role of technology in the national and global economy, and the implications of these changes for national, industry and company strategies. The subject covers issues of technology strategy formulation and management, marketing of technology, models and mechanisms of government intervention, new manufacturing technologies, work organisation and skill formation, and management information systems.

**STS947 Case Studies in Science and Technology Policy**

*Spring*

Contact hrs: 3 hrs per week.

This subject provides practical insights and experience in analysis, policy formulation, implementation and monitoring of scientific or technological changes and their impacts. A case study is chosen according to student interests and expertise, and staff availability. Issues might include: a hazard control policy; a set of national research priorities; a set of performance indicators for research or education funding; or negotiating the purchase and implementation of a major computing system.

**STS951 Research Report**

*Autumn/Spring*

Contact hrs: 3 hrs per week.

A report providing a survey and analysis of arguments and information, undertaken under the supervision of a staff member and on a topic approved by the Head of Program.
COURSES OFFERED

The following postgraduate courses are available.

1. Doctor of Philosophy
2. Honours Master of Arts (Cultural Studies)
3. Honours Master of Arts by Research
4. Master of Arts
5. Master of Policy (Social Policy)
6. Master of Arts (Cultural Studies)
7. Graduate Diploma in Arts

POSTGRADUATE COURSEWORK PROGRAMS

Sociology
Social Policy
Cultural Studies
Migration and Development

CURRENT RESEARCH AREAS

The overall approach of Wollongong Sociology centres on the analysis and understanding of the social, political and cultural consequences of people’s changing conditions of life. Concern with issues of critical and theoretical analysis and social and public policy underlie the Program’s research and scholarship. These interests are developed through concentration on a few key areas which the Program classifies in two crosscutting ways: by specialisation and by regional foci.

The disciplinary specialisations are Intercultural studies (encapsulating the areas of multiculturalism, migration, Asian societies and indigenous peoples), Cultural Studies, Social Policy and Women’s studies. The principal regional research foci of the Program are Australia, Europe and the Asia/Pacific region, with the emphasis being on comparative perspectives.

These are the Program’s priority areas for postgraduate teaching, research and scholarship.

Members of the Program are active in a number of Research Centres and Groups in the Faculty within the Institute for Critical and Social Inquiry. These structures enhance the Program’s research activities as well as strengthening the development of our teaching in both undergraduate and postgraduate areas.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN SOCIOLOGY

leading to the Master of Arts.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core:</td>
<td>Postgraduate Sociology Seminar</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Research Techniques</td>
<td>8</td>
</tr>
<tr>
<td>Plus at least two of the following:</td>
<td></td>
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</tr>
<tr>
<td>SOC940</td>
<td>Contemporary Social Policy Theory and Practice</td>
<td>8</td>
</tr>
<tr>
<td>SOC942</td>
<td>Advanced Race and Ethnic Studies</td>
<td>8</td>
</tr>
<tr>
<td>SOC946</td>
<td>Practical Communication and Communication Theory</td>
<td>8</td>
</tr>
<tr>
<td>SOC959</td>
<td>Advanced Studies of Gender in Society</td>
<td>8</td>
</tr>
<tr>
<td>Electives:</td>
<td></td>
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</tr>
<tr>
<td>SOC906</td>
<td>Sexuality, Health Issues and Social Policy</td>
<td>8</td>
</tr>
<tr>
<td>SOC908*</td>
<td>Social Policy and Identity in a Multicultural Society</td>
<td>8</td>
</tr>
<tr>
<td>SOC918</td>
<td>Advanced Sociology of Development</td>
<td>8</td>
</tr>
<tr>
<td>SOC947</td>
<td>Cultural Theory</td>
<td>8</td>
</tr>
<tr>
<td>SOC949*</td>
<td>Advanced Social Regulation: Policies and Issues</td>
<td>8</td>
</tr>
<tr>
<td>SOC950*</td>
<td>Advanced Studies of the Individual in Society</td>
<td>8</td>
</tr>
<tr>
<td>SOC952*</td>
<td>Nationalism and Minorities in the Asia-Pacific Region</td>
<td>8</td>
</tr>
<tr>
<td>SOC970</td>
<td>Advanced Social Movements</td>
<td>8</td>
</tr>
</tbody>
</table>

(A Special Topic may be substituted for one of the electives with the permission of the Head of Program.)

For further details see Course Requirements below.

* Not on offer in 1998.
## POSTGRADUATE PROGRAM IN SOCIAL POLICY

leading to the Master of Policy (Social Policy).

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core</strong></td>
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</tr>
<tr>
<td>SOC904</td>
<td>An Introduction to Policy and Program Evaluation</td>
<td>8</td>
</tr>
<tr>
<td>SOC933</td>
<td>Research Techniques</td>
<td>8</td>
</tr>
<tr>
<td>SOC940</td>
<td>Contemporary Social Policy Theory and Practice</td>
<td>8</td>
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</table>

**Electives: at least two of the following:**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC905</td>
<td>Social Policy Research Project</td>
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<tr>
<td>SOC906</td>
<td>Sexuality, Health Issues and Social Policy</td>
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<tr>
<td>SOC942</td>
<td>Advanced Race and Ethnic Studies</td>
<td>8</td>
</tr>
<tr>
<td>SOC908*</td>
<td>Social Policy and Cultural Identity in a Multicultural Society</td>
<td>8</td>
</tr>
<tr>
<td>SOC918</td>
<td>Advanced Sociology of Development</td>
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</tr>
<tr>
<td>SOC921</td>
<td>Special Topic in Sociological Studies</td>
<td>8</td>
</tr>
<tr>
<td>SOC943*</td>
<td>Advanced Urban Society</td>
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</tr>
<tr>
<td>SOC949</td>
<td>Advanced Social Regulation, Policies and Issues</td>
<td>8</td>
</tr>
<tr>
<td>SOC959</td>
<td>Advanced Studies of Gender in Society</td>
<td>8</td>
</tr>
<tr>
<td>SOC962*</td>
<td>Nationalism and Minorities in the Asia-Pacific Region</td>
<td>8</td>
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<tr>
<td>SOC970</td>
<td>Advanced Social Movements</td>
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</tr>
<tr>
<td>LAW960</td>
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(A Special Topic may be substituted for one of the electives with the permission of the Head of Program).

For further details, see Course Requirements below.

## OTHER POSTGRADUATE SUBJECTS

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<tr>
<td>SOC999</td>
<td>Major Thesis</td>
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## COURSE REQUIREMENTS

1. **DOCTOR OF PHILOSOPHY**

A student may enrol for a PhD in Sociology on successfully completing a BA(Hons) in Sociology at Class II, Division 1 or higher, on successfully completing an MA(Hons) in Sociology, or with approval of the Head of Program, after completing, at a high level, the Master of Arts Degree in Sociology. Normally, a minimum of three years of full-time research is required to complete a PhD in Sociology. Full-time candidates enrol in SOC999. Part-time enrolment is available.

2. **HONOURS MASTER OF ARTS (CULTURAL STUDIES)**

For details of this course, please refer to the 'CULTURAL STUDIES' entry in the Faculty of Arts section.

3. **HONOURS MASTER OF ARTS BY RESEARCH**

This degree is available to graduates with an Honours degree in Sociology. Normally, a minimum of one year full-time research is required to complete an MA(Hons) in Sociology. Full-time candidates enrol in SOC999. Part-time enrolment is available. Students may enrol in Sociology or Multicultural Studies as appropriate.

4. **MASTER OF ARTS**

The purpose of the Master of Arts is to allow graduates to pursue studies of society, culture and knowledge within frameworks provided by sociological theory. Students are required to choose subjects worth a total of 48 credit points from the Schedule of Graduate Studies, with the following qualifications:

1. persons who have completed a major in Sociology at the undergraduate level shall not include in their program subjects which are substantially similar to those already completed;
2. students shall discuss their overall program with the Head of Program or postgraduate co-ordinator prior to enrolment, at which time the most appropriate program will be decided;
3. optional subjects will be offered according to Postgraduate Rules. That is, not all subjects will be offered in any one year or session;
4. the Master of Arts shall be available as a part-time and full-time program. Full-time students are expected to complete the degree in two

* Not on offer in 1998.
academic sessions, part-time students in not less than three and not more than six academic sessions.

5. MASTER OF POLICY (Social Policy)

(1) The objective of the Master of Policy is to allow pass graduates in Arts or with other approved areas of study or experience, to pursue advanced studies in theoretical and practical aspects of contemporary Australian social policy. The tightly structured program will prepare students for work in government or voluntary welfare organisations, or policy related community groups. Students shall be admitted under the Rules covering the Masters Degree, with the additional qualifications covered below.

(2) Students are required to complete successfully an approved program of study of 48 credit points drawn from the Schedule of Graduate Studies, as set out in the table above.

(3) Students shall not include in their program subjects substantially similar to those already completed as part of their previous undergraduate or graduate studies.

(4) Students shall discuss their proposed program with the Co-ordinator of the Master of Policy (Social Policy) prior to enrolment.

(5) Students may be required to undertake additional work as a pre-requisite for subjects included in the Schedule of Graduate Subjects.

(6) The Master of Policy shall be available as a part-time and full-time program. Full-time students are expected to complete the degree in two academic sessions, part-time students in not less than three and not more than six academic sessions.

6. MASTER OF ARTS (CULTURAL STUDIES)

For details of this course, please refer to the 'CULTURAL STUDIES' entry in the Faculty of Arts section.

7. GRADUATE DIPLOMA IN ARTS

The purpose of the Graduate Diploma in Arts is to provide graduates who have a limited knowledge of Sociology a means of acquiring a sociological competence at a reasonably advanced level. The Head of Program will advise intending students on which course structure is most appropriate to their interests. The Graduate Diploma will be subject to the Course Rules for the award of Graduate Diplomas together with the following conditions:

(1) candidates are required to complete subjects totalling 48 credit points from those listed in the Arts Schedule under 'Sociology'. Of these, at least 24 must be from 300-level subjects and the remainder from 200-level subjects;

(2) a candidate may not include in his or her Graduate Diploma program any course component which substantially duplicates a subject or part of a subject previously passed by the candidate as part of any degree or diploma already held or previously attempted;

(3) the selection of subjects and the program of study shall be approved by the Head of Program;

(4) a full-time candidate shall normally complete the diploma in one academic year, a part-time candidate in no less than two and no more than three academic years;

(5) admission to candidature for the Graduate Diploma is on recommendation of the Head of the Sociology Program who shall assess the applicant's aptitude for sustained sociological study at a reasonably advanced level.

SUBJECT DESCRIPTIONS

SOC904 An Introduction to Policy and Program Evaluation
Spring 8 cp
Assessment: Four presentations from set exercises 20% each, short evaluation project.
Contact hrs: 2 hrs seminar per fortnight.
The course covers the full range of techniques and applications involved in the evaluation of social programs. It starts with a brief history of evaluation research and then goes on to cover diagnostic procedures, means of fitting evaluation designs to particular problems, program monitoring, data collection and processing, cost-benefit analysis and strategies for impact analysis such as randomised designs and quasi-experimental assessments.

SOC905 Social Policy Research Project
Spring 8 cp
Assessment: Research report of 8,000 - 10,000 words, participation in fortnightly work in progress seminars
Contact hrs: 2 hrs seminar per fortnight.
The research report shall be based on empirical research into a social policy issue which demonstrates significant problems for policy analysis and response. The issue will relate to the substantive area of study chosen as a focus for the student's course work program.

SOC906 Sexuality, Health Issues and Social Policy
Spring 8 cp
Assessment: Short essay, seminar activity, research proposal.
Contact hrs: 2 hrs seminar per week.
Key concepts in the sociology of health and illness will be used to explore contemporary policy making about sexual expression and sexual reproduction. This subject will examine the ways that feminist and sexual liberationist politics have challenged previous ethical and social theory and policy practice by a number of liberal democracies. We will critically examine attempts by various Australian governments to make policy about fertility and fertility control, assisted reproductive technologies, HIV/AIDS and the sexual and physical abuse of women and children.

SOC908 Social Policy and Identity in a Multicultural Society

SOC910 Postgraduate Sociology Seminar
Autumn 8 cp
Assessment: E-mail group discussion, debate, class participation, first essay, second essay.
Contact hrs: 2 hrs seminar per week
This subject aims to prepare Honours students for their thesis writing by exploring contemporary theoretical and substantive debates and issues in sociology. It will provide a means of exploring particular areas of current debate within the discipline and will assist students to develop their own theoretical perspectives and to evaluate critically the perspectives of others.

* Not on offer in 1998
SOC918 Advanced Sociology of Development
Spring 8 cp
Assessment: Seminar paper, minor essay, major essay.
Contact hrs: 1 hr lecture, 2 hrs seminar per week.
This subject will examine, historically and sociologically, local and international development debates. It will focus on the role of the State and its policies in the development and impact of policy and the historical and global power relations with particular reference to traditional channels of wealth. In particular it will focus on the Asia-Pacific region, and the role that Australia plays in this part of the world. Development programs conducted by both government and non-government agencies will be studied, with illustrative examples from current development debates.

SOC921 Special Topic in Sociological Studies
 Autumn/Spring 8 cp
Assessment: One essay and tutorial assignments.
Contact hrs: Individual supervision and seminars.
Topics for this subject may be chosen from any area of Sociology which the Head of Program considers to be of suitable substance and level to be offered as a SOC900 subject. This will be a reading subject offered under the direct supervision of a member of staff. For information of availability of topics offered, students should consult the Head of Program.

SOC933 Research Techniques
Autumn 8 cp
Assessment: Short research project, essay, class presentation.
Contact hrs: 2 hrs seminar per week.
Will explore social science techniques of enquiry with a focus of appropriate methods, both qualitative and quantitative, for different types of enquiry. Students will review some of the traditional social science tools of analysis as well as some alternative methods such as unobtrusive research. In addition students will become familiar with a statistical computer package for presenting and analysing quantitative data.

SOC940 Contemporary Social Policy Theory and Practice
Autumn 8 cp
Assessment: E-mail group discussion, submission presentation, major essay.
Contact hrs: 3 hrs lecture/seminar per week.
This subject will explore the relationship between social policy and sociological theory. The subject will review major debates in contemporary sociology in these areas and move towards developing a paradigm for the evaluation of policy in Australia. The discussion of social policy in Australia will focus on understanding the role of the State, the development and impact of policy and the historical and materialist base in which the State and its policies are located.

SOC942 Advanced Race and Ethnic Studies
Autumn 8 cp
Assessment: Seminar paper and presentation, major essay, class participation.
Contact hrs: 3 hrs lecture/seminar per week.
Introduces students to theories of ethnicity, 'race' and racism, in relation to other dimensions of social structure, in particular class and gender relations. Within an analysis of the Australian context, the significance of culture and ideology is explored. This includes an analysis of the subjective and structural dimensions of racial oppression and liberation movements, as well as an analysis of the broader theoretical and substantive relationship between culture, identity and resistance. These theories and issues will relate to the situation of Aboriginal and ethnic minorities in Australia, and international and historical comparisons will be made.

SOC943 Advanced Urban Society*

SOC946 Practical Communication and Communications Theory
Autumn 8 cp
Assessment: Major essay, seminar paper, and seminar work.
Contact hrs: 2hrs seminar per week.
This subject aims to lift professional communication skills and understanding by relating practical issues to theoretical models, concepts, and ideas. It seeks to undertake this by exploring various debates, and theoretical constructs which help relate individuals to society. Practical work will include: interviewing, participant observation, role-playing, analysing visual and phenomenological material. The theoretical traverse will examine various accounts, models and theories of communication and aims to raise students' ability to encode and decode communication issues.

SOC947 Cultural Theory
Spring 8 cp
Assessment: Major essay, seminar paper, seminar presentations, class participation.
Contact hrs: 2hrs seminar per week.
This subject introduces students to the work of leading cultural theorists and modes of cultural analysis. A number of perspectives will be covered ranging from structuralism, neo-marxism and phenomenology, through to feminism and post-modernism. Key concepts and issues to be explored will include forms and modes of culture in their social context: for example 'high' culture and 'popular' culture; hegemony; media culture; the relationship between 'race'/ethnicity and culture; gendered cultures; the relationship between feminism and culture; the technological mediation of culture; cultural production as social/political intervention; visual culture; culture and the environment; post-modernism. Students will explore the implications, value and impact of particular cultural theories and will be encouraged to construct their own interventions.

SOC949 Advanced Social Regulation: Policies and Issues *

SOC950 Advanced Studies of the Individual in Society*

SOC959 Advanced Studies of Gender in Society
Autumn 8 cp
Assessment: Short exercises, major essay.
Contact hrs: 2 hrs seminar per week.
This subject takes as its focus current debates about the constitution of humans as gendered subjects. Through the reading of key texts students will explore the debates within contemporary sociological thought on the complex inter-relation of social structures, social institutions and social practices in the constitution of femininity and masculinity. Questions of 'difference' and the usefulness of Western feminist perspectives for cross-cultural analysis will be considered. Please Note: Students with little or no back-ground in the study of gender relations must consult the lecturer for preliminary reading.

SOC962 Nationalism and Minorities in the Asia-Pacific Region*

SOC970 Advanced Social Movements
Spring 8 cp
Assessment: Major essay, seminar presentation, project paper, class participation.
Contact hrs: 1hr lecture, 2hrs seminar per week.
This subject will examine, historically and sociologically, local and global power relations with particular reference to traditional channels of resistance and change. Firstly some of the traditional channels, such as trade unions, will be analysed as agents of change. Secondly new social movements including the women's movement, urban movements, environmental and minority liberation movements will be examined.

SOC990 Minor Thesis
24 cp

SOC999 Major Thesis
48 cp

*S Not on offer in 1998
WOMEN'S STUDIES

COURSES OFFERED

The following postgraduate course is available:

Master of Arts

The Master of Arts in Women's Studies is both interdisciplinary and multidisciplinary. The structure of the degree is built on the disciplinary base of the students' undergraduate degrees. All students are expected to complete work for this award in more than one discipline. The common core provides an introduction to the concepts and debates that constitute Women's Studies as an academic field. In 1998 this degree will be administered by the Board of Interdisciplinary Studies, co-ordinated by Rebecca Albury.

POSTGRADUATE PROGRAM

Women's Studies

CURRENT RESEARCH AREAS

Following a successful completion of the MA (Women's Studies), students with appropriate academic backgrounds may be accepted as candidates for research degrees in one of the Programs of the Faculty of Arts which offers subjects in this degree.

POSTGRADUATE PROGRAM IN WOMEN'S STUDIES

leading to the Master of Arts.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>WMST901</td>
<td>Feminist Issues and Debates</td>
<td>8</td>
</tr>
<tr>
<td>WMST902</td>
<td>Feminist Theory</td>
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<tr>
<td>CCS939</td>
<td>Deconstructing Australia: Cultural Dissidence and the Ethics of Difference</td>
<td>8</td>
</tr>
<tr>
<td>CCS951</td>
<td>Regulating Culture: Policy, Language &amp; Control</td>
<td>8</td>
</tr>
<tr>
<td>CCS955</td>
<td>Technologies of the Body</td>
<td>8</td>
</tr>
<tr>
<td>EDGA923</td>
<td>Sport, Culture and Education*</td>
<td>8</td>
</tr>
<tr>
<td>ENGL910</td>
<td>20th Century Women Writers</td>
<td>8</td>
</tr>
<tr>
<td>ENGL925</td>
<td>Writing the Gendered Body*</td>
<td>8</td>
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<tr>
<td>ENGL929</td>
<td>Signs of the Times: Victorian Literature and Culture</td>
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</tr>
<tr>
<td>ENGL933</td>
<td>Early Women Writers</td>
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</tr>
<tr>
<td>HIST913</td>
<td>The Making of the Modern Australian Woman</td>
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<tr>
<td>PHIL965</td>
<td>Bioethics</td>
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</tr>
<tr>
<td>PHIL990</td>
<td>Feminist Political Philosophy</td>
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</tr>
<tr>
<td>SOC906</td>
<td>Sexuality, Health Issues and Social Policy</td>
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</tr>
<tr>
<td>SOC942</td>
<td>Advanced Race and Ethnic Studies</td>
<td>8</td>
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<tr>
<td>SOC945</td>
<td>Social Regulation: Policies and Issues*</td>
<td>8</td>
</tr>
<tr>
<td>SOC959</td>
<td>Advanced Studies in Gender in Society</td>
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</tr>
<tr>
<td>STS910</td>
<td>Gender and Body Politics</td>
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<tr>
<td>STS934</td>
<td>Genetics and Technological Innovation</td>
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<td>STS936</td>
<td>Critical Studies in Medicine and Health Care</td>
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<tr>
<td>WMST903</td>
<td>Advanced Topics in Women's Studies</td>
<td>8</td>
</tr>
</tbody>
</table>

Students choose 4 subjects (at least 32 credit points) from the subjects listed above.

Please note: Not all subjects will be available each year, refer to the relevant Program and the Co-ordinator of Women's Studies before enrolling.

For further details, see Course Requirements below.

1. MASTER OF ARTS

The Masters program is an interdisciplinary and multidisciplinary course – based in the Faculty of Arts.

Pass degree entry

Pass graduates or equivalent may undertake a 48 credit point Master of Arts course, choosing 6 subjects (which in normal circumstances will include the two prescribed subjects) from the Schedule. The degree will run over one year full-time or two years for part-time students.

(i) Students are required to successfully complete an approved program of study of 48 credit points drawn from the Schedule of Graduate Subjects, as set out in the table 'Postgraduate Program in Women's Studies'.

(ii) Students shall undertake any additional work required by Programs or Faculties as a prerequisite for subjects included in the Schedule of Graduate Subjects.

(iii) Students shall not include in their program subjects substantially similar to those already completed as part of their previous undergraduate or graduate studies.

(iv) Students shall discuss their proposed program with the Co-ordinator of the Master of Arts (Women's Studies) prior to enrolment.

* Not on offer in 1998.
(v) The Master of Arts (Women's Studies) shall be available as a part-time and a full-time program. Full-time students are expected to complete the degree in two academic sessions, part-time students in not less than three and not more than six academic sessions.

SUBJECT DESCRIPTIONS

WMST901 Feminist Issues and Debates
Autumn 8 cp
Contact hrs: 3 hrs lecture/seminar.
Assessment: seminar presentation and participation plus a minimum of 7000 words as a seminar paper, a short essay and a long essay.
An interdisciplinary seminar series which will examine the challenges of feminist knowledges to established modes of thought and social organisation. Through a study of some key issues in women's lives the subject will examine the interactions between feminist theory and activism in both historical and contemporary debates.

WMST902 Feminist Theory
Spring 8 cp
Contact hrs: 3 hrs lecture/seminar.
Assessment: seminar presentation and participation plus a minimum of 7000 words as a seminar paper, a short essay and a long essay.
Through an examination of historical and contemporary literature this subject will provide the basis for an exploration of the concepts, theories and discourses used to investigate the meanings of gender in contemporary Western culture. According to staff availability the subject will focus on at least two areas: social and political thought, literary theory, cultural studies, feminist epistemology and feminist critiques of established epistemologies.

WMST903 Advanced Topics in Women's Studies
Autumn/Spring 8 cp
Contact hrs: (by arrangement).
Assessment: written work equivalent to 7000 words.
This subject offers students an opportunity for in-depth study of a particular aspect of Women's Studies. Normally this will be a reading program determined by the supervisor and student in consultation with the Co-ordinator of Women's Studies. Students will be expected to demonstrate some background in the topic they undertake; work experience may be substituted for academic study in some cases.

Interdisciplinary Subjects
For the following subject descriptions, please refer to individual Program listing.

Faculty of Arts
Communication and Cultural Studies Program
CCS939 Deconstructing Australia: Cultural Dissidence and the Ethics of Difference
CCS951 Regulating Culture: Policy, Language and Control
CCS955 Technologies of the Body

English Studies Program
ENGL910 20th Century Women Writers
ENGL925 Writing the Gendered Body*
ENGL929 Signs of the Times: Victorian Literature and Culture
ENGL933 Early Women Writers

History & Politics Program
HIST913 The Making of the Modern Australian Woman

Philosophy Program
PHIL965 Bioethics
PHIL990 Feminist Political Philosophy

Science & Technology Studies Program
STS910 Gender and Body Politics
STS934 Genetics and Technological Innovation
STS936 Critical Studies in Medicine and Health Care

Sociology Program
SOC906 Sexuality, Health Issues and Social Policy
SOC942 Advanced Race and Ethnic Studies
SOC949 Social Regulation: Policies and Issues*
SOC959 Advanced Studies in Gender in Society

Faculty of Education
EDGAS23 Sport, Culture and Education*

* Not on offer in 1998
MEMBER UNITS

Accounting and Finance
Business Systems
Economics
Management
Marketing
The Business School

The Faculty runs its postgraduate programs through five academic departments and The Business School. The academic departments are responsible for Master of Commerce, Master of Commerce (Honours), Graduate Diploma and Doctoral programs. The Business School is responsible for the Master of Business Administration and related courses and for the Quality Management program.

POSTGRADUATE PROGRAMS

Postgraduate programs are available in the following areas:

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<td>Economics</td>
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<td>Finance</td>
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<td>Global Economics</td>
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<td>Human Resource Economics</td>
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<td>Human Resource Management</td>
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<td>Management</td>
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<td>Money, Banking and Marketing</td>
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<td>Operations Management</td>
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<td>Organisational Behaviour</td>
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<td>Public Policy</td>
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The University attempts to ensure that information contained in this publication is up to date at the time of printing but sections may be amended without notice by the University in response to changing circumstances for any other reasons. Classes in any subject may be cancelled if enrolments do not reach the levels approved for the effective presentation of the topic area. Students should check with the University at the time of application/enrolment whether any later information is available in respect of any material contained in this Calendar.

The University reserves the right to change the content or method of presentation of any unit of study, or to withdraw any unit or source of study which it offers, or impose limitation on enrolment in any unit or course as a result of resource limitations or for any other reason.
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INTERNATIONAL BUSINESS RESEARCH INSTITUTE
CENTRE FOR RESEARCH POLICY

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ACCOUNTING AND FINANCE

COURSES OFFERED
The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Arts by Coursework or Research
3. Honours Master of Commerce by Coursework or Research
4. Master of Commerce
5. Graduate Diploma in Commerce

CURRENT RESEARCH AREAS
The following areas of research are available to candidates undertaking the Honours Masters degrees and the Doctor of Philosophy degree:

- Accounting and information systems
- Accounting and EDI
- Auditing
- Controllership
- Critical accounting theory
- External financial reporting
- Finance
- Government and not-for-profit accounting
- History of accounting thought
- International accounting & finance
- Management accounting
- Small business management

SCHEDULE OF PROGRAMS

MASTER OF COMMERCE (ACCOUNTANCY)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>ACCY903</td>
<td>Accounting Theory</td>
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<tr>
<td>ACCY904</td>
<td>Financial Accounting</td>
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<tr>
<td>ACCY905</td>
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<td>ACCY913</td>
<td>Management Accounting</td>
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</tr>
<tr>
<td>ACCY914</td>
<td>Management Planning and Control Systems</td>
<td>6</td>
</tr>
<tr>
<td>ACCY936</td>
<td>Management and Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>ACCY968</td>
<td>Insolvencies</td>
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</tr>
<tr>
<td>ACCY974</td>
<td>Accounting Regulation</td>
<td>6</td>
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</tbody>
</table>

With permission of the Head of Department of Accounting and Finance it is possible for students to substitute for the subjects listed above ACCY985 Special Topic in Accounting A or ACCY986 Special Topic in Accounting B and up to three subjects offered in the M Com (Finance) specialisation.

HONOURS MASTER OF COMMERCE (ACCOUNTANCY)

The standard program of study is composed of either:
(i) 12 credit points of coursework, ACCY993 Research Essay and ACCY995 Research Project or
(ii) a 48 credit point thesis.

Where coursework is included it will comprise ACCY903 Accounting Theory (six credit points) and one of the six (6) credit point subjects from the list below. Where ACCY903 has already been studied (as part of the M Com above), two subjects from the list can be selected.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY907</td>
<td>Empirical Research Methods in Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ACCY943</td>
<td>Auditing and Accounting Information Systems</td>
<td>6</td>
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<tr>
<td>ACCY973</td>
<td>History of Accounting Thought</td>
<td>6</td>
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</table>

For further details, see Course Requirements below.

MASTER OF COMMERCE (FINANCE)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>ACCY921</td>
<td>Managerial Finance*</td>
<td>6</td>
</tr>
<tr>
<td>ACCY922</td>
<td>Capital Investment</td>
<td>6</td>
</tr>
<tr>
<td>ACCY923</td>
<td>Investment Management</td>
<td>6</td>
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<tr>
<td>ACCY924</td>
<td>Corporate Financial Information Analysis</td>
<td>6</td>
</tr>
<tr>
<td>ACCY925</td>
<td>Banking Theory and Practice</td>
<td>6</td>
</tr>
<tr>
<td>ACCY926</td>
<td>Studies in Business Finance</td>
<td>6</td>
</tr>
<tr>
<td>ACCY927</td>
<td>Small Business Finance</td>
<td>6</td>
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<tr>
<td>ACCY928</td>
<td>Multinational Financial Management</td>
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</table>
With the permission of the Head of the Department of Accounting and Finance it is possible for students to substitute for the subjects listed above up to three of the subjects offered in the MCom (Accountancy) specialisation.

ACCY921 is available only to students who have no previous finance studies. Students who are not permitted to enrol in ACCY921 can select either ACCY987 Special Topic in Finance or ECON934 Advanced Financial Economics. Students who have completed a finance specialisation undergraduate degree are recommended to not include ACCY922 Capital Investment in their program.

HONOURS MASTER OF COMMERCE (FINANCE)

The standard program of study is composed of either:
(i) 12 credit points of coursework, ACCY993 Research Essay and ACCY995 Research Project or
(ii) a 48 credit point thesis.

Where coursework is included the 12 credit points can be selected from the following subjects:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY903</td>
<td>Accounting Theory</td>
<td>6</td>
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<tr>
<td>ACCY907</td>
<td>Empirical Research Methods in Accounting</td>
<td>6</td>
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<tr>
<td>ACCY987</td>
<td>Special Topic in Finance</td>
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<tr>
<td>ECON934</td>
<td>Advanced Financial Economics</td>
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</table>

For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

<table>
<thead>
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<th>Number</th>
<th>Subject</th>
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<tr>
<td>ACCY906</td>
<td>Issues in Financial Accounting</td>
<td>6</td>
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<tr>
<td>ACCY908</td>
<td>Applied Financial Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ACCY909</td>
<td>Comparative Accounting Systems</td>
<td>6</td>
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<tr>
<td>ACCY910</td>
<td>Issues in International Accounting</td>
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<tr>
<td>ACCY916</td>
<td>Studies in Controllership</td>
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<td>ACCY918</td>
<td>Applied Management Accounting</td>
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<td>ACCY931</td>
<td>Advanced Decision Support Systems</td>
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<tr>
<td>ACCY933</td>
<td>Studies in Information Systems in Accounting</td>
<td>6</td>
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<tr>
<td>ACCY944</td>
<td>Issues in Auditing</td>
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<tr>
<td>ACCY961</td>
<td>Professional Practice - Accounting</td>
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<tr>
<td>ACCY962</td>
<td>Professional Practice - Auditing &amp; EDP</td>
<td>6</td>
</tr>
<tr>
<td>ACCY963</td>
<td>Professional Practice - Taxation</td>
<td>6</td>
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<tr>
<td>ACCY969</td>
<td>Financial Management for Health Services</td>
<td>6</td>
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<tr>
<td>ACCY983</td>
<td>Studies in Government Accounting</td>
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<tr>
<td>ACCY985</td>
<td>Special Topic in Accounting - A</td>
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<tr>
<td>ACCY986</td>
<td>Special Topic in Accounting - B</td>
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<tr>
<td>ACCY987</td>
<td>Special Topic in Finance</td>
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<td>ACCY993</td>
<td>Research Essay</td>
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<td>ACCY994</td>
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<td>Research Project</td>
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<tr>
<td>ACCY996</td>
<td>Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY
Candidates with good Masters or Honours degrees, Class 2 Division II or the equivalent can apply to undertake a Doctor of Philosophy. Full time study of a minimum of three years is normally required or the equivalent in part-time study. Candidates would be expected to work under supervision on problems related to the Department's research areas and may be required to attend coursework classes in order to develop skills necessary for their doctoral research. Candidates for this degree enrol in ACCY996.

2. HONOURS MASTER OF ARTS
(a) Candidates who have completed an acceptable standard the requirements for the award of the BA(Hons) in Accounting and Finance, Economics or Management at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MA(Hons) degree by completing at honours standard the accountancy or finance course of study as set out in the schedule of Graduate Programs under the Honours Master of Commerce degree.

(b) Candidates who have completed the requirements for the BA degree at a standard less than Class II, Division 2, or equivalent degree, may, subject to the attainment of a satisfactory standard in that degree, be permitted to register as candidates for the MA(Hons) degree. Such candidates may qualify for the award of the degree by completing at honours standard subjects aggregating not less than 96 credit points of which subjects aggregating not less than 48 credit points shall be selected from the accountancy or finance course of study as set out in the schedule of Graduate Programs under the Master of Commerce degree.

3. HONOURS MASTER OF COMMERCE
The Department offers two honours masters programs - one in accountancy the other in finance. The degrees are primarily research degrees for those who have completed a bachelor's honours at a standard of Class II, Division 2 or higher in accounting and/or finance. Candidates who have completed a
masters degree (for example those described below) may be admitted to the program. The degree is normally 48 credit points and may be studied full-time over one year or may be studied part-time. In special circumstances candidates will be admitted to a 96 credit point program with the first 48 credit points normally comprising the subjects studied in the MCom programs.

(a) Candidates who have completed the requirements for the award of the BCom(Hons) in Accounting and/or Finance, Economics or Management at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MCom(Hons) degree by completing at honours standard the accountancy or finance course of study as set out in the schedule of Graduate Programs above.

(b) A candidate may not include for this degree subjects similar in content to subjects included in the honours part of the undergraduate course.

(c) Candidates required to undertake a preliminary program or required to complete designated subjects at an appropriate standard in accordance with Clause 501(3) of the Honours Masters Degree Rules may have their enrolment cancelled in the event that the preliminary program or designated subjects is not completed at the appropriate standard.

4. MASTER OF COMMERCE

The purpose of this pass degree is to provide graduate students, who have completed the accountancy and/or finance specialisation for the BCom degree, with the opportunity of further in-depth study of advanced topics in accounting or finance. The degree of 48 credit points may be studied full-time over one year, or may be studied part-time. Candidates may qualify for the Master of Commerce degree by completing the accountancy or finance course of study as set out in the Schedule of Graduate Programs.

Candidates who do not have a specialisation in Accountancy and wish to complete an accounting program may be permitted to study for the degree provided that they include the undergraduate accountancy subjects amounting to 24 credit points, recommended by the Head of the Department; thus the total credit points required for these candidates is 72.

Members of not less than five years standing of the Australian Society of CPA’s or the Institute of Chartered Accountants in Australia with appropriate experience are permitted to enrol for the degree even though they do not hold an undergraduate degree; such candidates will be required to pass subjects aggregating 72 credit points.

5. GRADUATE DIPLOMA IN COMMERCE

In accordance with the general regulations governing graduate diplomas, candidates for the Graduate Diploma in Commerce must have been admitted to the degree of Bachelor in the University or other approved institution. In special circumstances a professional person holding a tertiary qualification (for example, an experienced accountant with the Commerce (Accounting Procedures) Certificate) may be permitted to enrol. The main requirement is that subjects aggregating not less than 30 credit points of the 48 necessary for the Graduate Diploma are to be obtained from 200-level and/or 300-level subjects offered by the Accounting and Finance Department. The Graduate Diploma requires one year full-time study or part-time equivalent.

The Graduate Diploma serves a wide variety of interests. On the one hand Science or Engineering graduates may study first the second year accounting and take, say, Management Accounting to third year, and on the other hand, Accountancy students may specialise further for professional purposes.

Specific requirements for the Graduate Diploma are:

1. not less than 30 credit points (of the minimum required of 48) are to be obtained from 200-level and/or 300-level subjects offered by the Department of Accounting and Finance;
2. with the approval of the Head of the Department of Accounting and Finance subjects may be selected from 900 level subjects offered by the Department of Accounting and Finance. (Any subjects selected under this clause may be included in the 30 credit points required under 1.); and
3. the whole course for the diploma is to be approved by the Head of the Department of Accounting and Finance as providing a coherent course of study.

SUBJECT DESCRIPTIONS

Seminars
Generally a two hour weekly seminar or lecture is held for each 900 level subject.

Assessment
The assessment for 900 level subjects will be distributed in subject outlines in the first week of session and will specify the seminar contribution, essays and examination.

Textbooks
There are no prescribed textbooks. Reading is required from a wide variety of references, including books and journal articles. Specific recommendations may be obtained from the Department of Accounting and Finance.

ACCY901 Accounting for Managers
Autumn/Spring 6 cp
The interpretation and utilisation of the major types of reports and analyses prepared by accountants for management decision making.

ACCY903 Accounting Theory
Autumn 6 cp
The nature of theory, research and theory formation. A study of the methods used in theory formation, and of attempts to formulate theories of accounting and finance.

ACCY904 Financial Accounting
Autumn 6 cp
An in-depth study of the basis of external financial reporting, including asset valuation and periodic profit measurement. A study of the elements of financial accountability and their communication in accounting reports.

ACCY905 International Accounting
Autumn 6 cp
corporation. The effect of changing price levels on accounting for international operations.

**ACCY906 Issues in Financial Accounting**

**Spring** 6 cp
Contemporary issues in financial reporting to external parties, including accounting for different classes of assets, liabilities and equities, Legal, institutional and professional reporting requirements, including proposals for improvement in accounting principles applied in practice.

**ACCY907 Empirical Research Methods in Accounting**

**Autumn** 6 cp
The subject provides an overview of the ways accounting and finance researchers identify, formulate and investigate empirical questions in accounting and finance. Subjects include the criteria adopted to select research projects, issues of experimental design, validity threats, measurement problems and statistical analysis. Selected published accounting and finance research will be used to illustrate established methods of empirical research.

**ACCY908 Applied Financial Accounting**

**Spring** 6 cp
Advanced problems in external financial reporting, including accounting for groups of companies, price level accounting and reporting theory involving consideration of taxation and economic implications.

**ACCY909 Comparative Accounting Systems**

**Spring** 6 cp
An in-depth examination of the patterns of accounting development in different national political environments. Key variables determining the differential accounting development patterns and their implications, in particular, for multinational reporting, will be critically evaluated. Approaches for resolving the problems posed by the diversity of accounting systems will also be considered.

**ACCY 910 Issues in International Accounting**

**Spring** 6 cp
Pre-requisite: ACCY905
Specific current issues that may be examined in-depth include harmonisation of accounting standards and practices, foreign currency accounting, internal control and performance evaluation problems in foreign subsidiaries, and international transfer pricing problems. Content may be revised subject to the currency of specific issues and in light of student interests.

**ACCY 913 Management Accounting**

**Autumn** 6 cp
The conceptual basis of management accounting and information systems. An examination of traditional and alternative theories and approaches shaping organisational and behavioural aspects of management accounting, including the contingency approach, the agency approach, control system theories, activity based accounting and critical accounting approaches.

**ACCY914 Management Planning and Control Systems**

**Autumn** 6 cp
An in-depth analysis of selected aspects of the design and evaluation of management accounting, planning and control systems.

**ACCY916 Studies in Controllership**

**Spring** 6 cp
The role and functions of the Chief Accounting Officer. Designing, installing and managing accounting systems - both financial and managerial. Specific problem areas in controllership, as depicted in selected case studies.

**ACCY918 Applied Management Accounting**

**Spring** 6 cp
An in-depth applied analysis of selected topics in management accounting. Topics chosen could include decision theory and analysis, financial model building, cost prediction and control techniques, pricing, management accounting systems design, and the interrelationships between management and the management accounting system. Theoretical concepts developed in other management accounting subjects will be expanded as needed to support the complex applications being studied.

**ACCY921 Managerial Finance**

**Autumn/Spring** 6 cp
Not to count with MGMT921 Managerial Finance
An examination of the sources and uses of corporate finance, and the identification of relevant costs for decision making. Specific topics may include financial decision and corporate strategy, valuation, receivables, capital investment, risk and uncertainty, required rates of return, dividend policy, leasing, mergers and acquisitions.

**ACCY922 Capital Investment**

**Autumn** 6 cp
Not to count with ACCY915
An in-depth study of investments and investment decision analysis. The theoretical bases of asset pricing and net present value. The application of investment selection criteria under diverse conditions and in different market settings. The incorporation of risk into investment decision analysis and a study of the application of capital asset pricing models in investment evaluation.

**ACCY923 Investment Management**

**Spring** 6 cp
The subject examines some advanced topics in the modern theory of optimal investment decision-making, portfolio theory, capital and derivative markets. The subject will explore areas including: market efficiency models in valuing portfolios and securities, bond analysis, portfolio management and performance evaluation. The subject will provide a theoretical framework within which all derivative securities can be valued and hedged and also examine the way they are traded.

**ACCY924 Corporate Financial Information Analysis**

**Autumn** 6 cp
A survey of methods for the appraisal and prediction of corporate financial performance from such publicly available information as accounting numbers, industry and economic statistics, and stock market data. Equal emphasis is placed upon the development of theoretical constructs, and appraisal of the results of empirical research, especially Australian studies.

**ACCY925 Banking Theory and Practice**

**Autumn** 6 cp
This subject focuses on accounting aspects of the practices and operations of banks and other financial institutions. Topics include the regulatory structure of financial institutions, the cheque clearing system, float management and electronic banking. Additionally, the subject should enable the student to understand balance sheet planning and capital adequacy analysis as used in financial institutions.

**ACCY926 Studies in Business Finance**

**Autumn** 6 cp
Contemporary business finance theory, including option pricing theory, arbitrage pricing model, bond swapping and bond immunisation.

**ACCY927 Small Business Finance**

**Spring** 6 cp
Not to count with ACCY942.
This subject is about small business financing as provided by risk capitalists. The material covered includes the foundation and development of the risk capital industry, management structures, investment decision making processes, deal structures and post-investment involvement in entrepreneurial companies by venture capitalists. The risk capital industry has been promoted, by numerous governments as a panacea for economic woes. The tendency, its rationale and the approaches taken for risk capital development internationally will also be assessed.

**ACCY928 Multinational Financial Management**

**Spring** 6 cp
Not to count with MGMT998.
The role of multinationals in international investment, aspects of the international monetary system, Euromarkets, foreign exchange markets, internal and external exposure management techniques.
currency futures and options; swaps; financing MNC investment; MNC investment decision making; political risk analysis; international taxation.

ACCY931 Advanced Decision Support Systems
Spring 6 cp
This subject will examine the theoretical foundations for Decision Support Systems. Consideration will be given to architectural and environmental factors in designing Decision Support Systems. Practical accounting applications will be provided. Empirical studies and recent developments in business will be selected for in-depth review.

ACCY933 Studies in Information Systems in Accounting
Autumn 6 cp
Theoretical and practical aspects of contemporary information theory in accounting system evaluation, design, implementation and management, accounting and associated computer applications, sociological and ethical implications and research issues are explored.

ACCY936 Management and Information Systems
Spring 6 cp
The effective use and control of information systems, particularly computer-based information systems, and the likely impact of developments in this area on management functions and how managers carry out those functions.

ACCY943 Auditing and Accounting Information Systems
Spring 6 cp
The general principles of auditing applied to the audit of computer-based accounting systems and the use of computers as an auditing tool. Particular emphasis on the positive aspects of auditing and internal control, including their contribution towards improvements in: (a) management functions such as planning; and (b) the quality (both real and perceived) of information flows within an entity and between it and external parties.

ACCY944 Issues in Auditing
Spring 6 cp
An in-depth examination of contemporary topics in auditing with emphasis on controversial and theoretical issues, including social and ethical issues, role of quantitative techniques in the audit function, continuous auditing concept, uncertainty reporting, audit performance evaluation, extension of attest function and public sector auditing.

ACCY961 Professional Practice - Accounting
6 cp

ACCY962 Professional Practice - Auditing and EDP
6 cp
Statements of Auditing Standards and Statements of Auditing Practice: EDP Systems and Controls.

ACCY963 Professional Practice - Taxation
6 cp

ACCY968 Insolvencies
Spring 6 cp
Note: A student who has passed ACCY368 Insolvencies may not enrol in this subject.
Accounting and legal aspects of corporate and non-corporate insolvencies including bankruptcies, liquidations, receivership; alteration of capital, reconstruction, amalgamation and takeovers.

ACCY969 Financial Management for Health Services
Spring 6 cp
This subject investigates the movement away from the management of costs towards the management of value for money. As such, it is concerned with the measuring and monitoring of efficiency. Accounting tools will be used to investigate quality of care, outcome, utility, products, utilisation and resource allocation.

ACCY973 History of Accounting Thought
Autumn 6 cp

ACCY974 Accounting Regulation
Spring 6 cp
An in-depth study of the regulation of accounting practice and procedures, the accounting profession and of measurement and disclosure in external financial reporting. This could include an examination of the consequences of regulation, alternative institutional arrangement for setting standards, the impact of accounting theory on standard setting, and a historical review of accounting regulation.

ACCY983 Studies in Government Accounting
Spring 6 cp
A detailed examination of selected areas in federal, state, regional or local government accounting.

ACCY985 Special Topic in Accounting - A
6 cp
A special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. The selection would be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

ACCY986 Special Topic in Accounting - B
6 cp
A special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. The selection would be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

ACCY987 Special Topic in Finance
6 cp
This course provides an opportunity to study a topic of research interest within the theory and application of finance as it relates to (i) corporate finance and (ii) investments. The research will be completed under staff supervision and culminates in the production of a written report.

ACCY993 Research Essay
12 cp

ACCY994 Project
12 cp

ACCY995 Research Project
24 cp

ACCY996 Thesis
48 cp
Information may be obtained from the Head of Department regarding ACCY985, ACCY986, ACCY987, ACCY993, ACCY994, ACCY995 and ACCY996.
THE BUSINESS SCHOOL

COURSES OFFERED
The Business School manages and co-ordinates the Master of Business Administration, Honours Master of Quality Management, Master of Quality Management, Master of Logistics and Operations Management, and related graduate management programs on behalf of the Faculty of Commerce.

The following postgraduate courses are available:

1. Master of Business Administration
   - Graduate Diploma in Commerce (Management)
   - Graduate Certificate in Management
2. Master of Quality Management
   - Honours Master of Quality Management
   - Graduate Certificate in Quality Management
3. Master of Logistics and Operations Management
4. Master of International Business
5. Master of Health Management

The Business School also offers an extensive range of tailored executive training and development programs to a wide range of organisations in both the public and private sectors. Client-based programs are available in the following areas:

- Change Management
- Financial Management
- Quality Management
- Marketing Management
- Strategic Policy and Planning
- Project Planning

The Business School provides the focus for the University's integrated distance education graduate management programs, with courses available through the Sydney Centre and the Wollongong OnLine network.

SCHEDULE OF PROGRAMS

MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration (MBA) is an eighteen month full-time or three year part-time course and is offered at Pass or Merit level. MBA candidates are required to complete 96 credit points of accredited modules, according to the sequence of study listed below. The foundation and personal development modules are compulsory and serve as an introduction to the specialisation and capstone subjects which follow.

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<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
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<tr>
<td>WBS901</td>
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<tr>
<td>WBS902</td>
<td>Managerial Statistics: Analysis, Interpretation and Application</td>
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<td>WBS903</td>
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<td>WBS924</td>
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Notes:
1. Foundation Subject (Foundation subjects are compulsory unless judged by the relevant Departmental Head that a comparable subject in the relevant area has been successfully completed at a similar level of education, in which case students will be directed by the MBA Director to an alternative subject.)
2. Personal Development Subject (modular over Sessions 1 & 2 and concurrent with Foundation subjects)
3. Capstone Subject
4. Specialisation Subject
5. Specialisation Project Subject (phased over Session 2, Summer Recess & Session 3 and concurrent with Specialisation subjects)

MBA SPECIALISATIONS

Students may elect to undertake a general or specialist MBA program. To qualify for a particular specialisation, candidates must complete all subjects on offer within one of the prescribed specialisation schedules and undertake a management project within that area of specialisation.

1. General Management
2. International Business
3. Operations Management
4. Marketing
5. Human Resource Management
6. Financial Management
7. Electronic Commerce
8. Information Systems Development Methodologies
9. Information Systems Management
10. International Economic Relations*
11. Quality Management
12. Health Management

* Candidates intending to specialise in International Economic Relations (Schedule 10) are required to undertake three specialisation subjects only (24cp).

Co-ordinator: Professor John Glynn, MBA Director

MBA SPECIALISATION SCHEDULES

SCHEDULE 1: GENERAL MANAGEMENT

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<th>Credit Points</th>
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SCHEDULE 2: INTERNATIONAL BUSINESS

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<td>ACCY928</td>
<td>Multinational Financial Management</td>
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<td></td>
<td>MGMT978</td>
<td>Cross Cultural Management</td>
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<td>International Economic Relations - B</td>
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<tr>
<td></td>
<td>ACCY905</td>
<td>International Accounting</td>
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<td></td>
<td>MARK939</td>
<td>Contemporary Issues in International Marketing</td>
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<tr>
<td></td>
<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
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SCHEDULE 3: OPERATIONS MANAGEMENT

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<td>MGMT933</td>
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<td>MGMT934</td>
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<td>MGMT940</td>
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<td>MGMT941</td>
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<td>MARK935</td>
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<td>MARK936</td>
<td>Consumer Behaviour</td>
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<td>MARK937</td>
<td>Relationship Marketing and Communications</td>
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<td>MARK956</td>
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<tr>
<td>MARK959</td>
<td>Sales Management</td>
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<tr>
<td>MARK970</td>
<td>Contemporary Issues in Services Quality</td>
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<tr>
<td>MARK977</td>
<td>Research Marketing Decisions</td>
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24 cp selected from:

or 18cp selected from subjects listed above, plus any 6 cp postgraduate subject from any other Department or Faculty, subject to approval by the Head of the relevant Department and the Head of Marketing.

### SCHEDULE 5: HUMAN RESOURCE MANAGEMENT

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<tr>
<td>MGMT953</td>
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and 6cp or 12cp selected from:

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<tr>
<td>ECON954</td>
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<tr>
<td>ECON973</td>
<td>Employers and Industrial Relations - A</td>
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<td>ECON975</td>
<td>Advanced Industrial Relations Processes</td>
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<td>ECON948</td>
<td>Employers and Industrial Relations</td>
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<tr>
<td>MGMT916</td>
<td>Management and Employment Relations</td>
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plus remaining 12cp or 6cp selected from:

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<td>Human Resource Strategies and TQM</td>
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<tr>
<td>MGMT915</td>
<td>Management of Change</td>
<td>6</td>
</tr>
<tr>
<td>MGMT920</td>
<td>Organisational Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MGMT918</td>
<td>Organisational Processes</td>
<td>6</td>
</tr>
<tr>
<td>MGMT924</td>
<td>Organisations and their Environments</td>
<td>6</td>
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<tr>
<td>MGMT947</td>
<td>Quality Management</td>
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<tr>
<td>MGMT963</td>
<td>Management of Occupational Health and Safety</td>
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### SCHEDULE 6: FINANCIAL MANAGEMENT

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</tr>
<tr>
<td>ACCY922</td>
<td>Capital Investment</td>
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</tr>
<tr>
<td>ACCY924</td>
<td>Corporate Financial Information Analysis</td>
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plus 6cp selected from:

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<td>ACCY923</td>
<td>Investment Management</td>
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<tr>
<td>ACCY928</td>
<td>Studies in Business Finance</td>
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or, with special permission from the Head of Department, 6 cp from:

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<tr>
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<td>ACCY916</td>
<td>Studies in Controllship</td>
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<td>ACCY936</td>
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### SCHEDULE 7: ELECTRONIC COMMERCE

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<td>BUSS909</td>
<td>Office Automation and Intranets</td>
<td>6</td>
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<tr>
<td>BUSS927</td>
<td>Human Computer Interaction</td>
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<tr>
<td>BUSS930</td>
<td>Programming for Managers</td>
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### SCHEDULE 8: INFORMATION SYSTEMS DEVELOPMENT METHODOLOGIES

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<td>BUSS951</td>
<td>Critical Issues in Systems Development</td>
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<td>BUSS952</td>
<td>Information Systems Management</td>
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### SCHEDULE 9: INFORMATION SYSTEMS MANAGEMENT

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<td>BUSS952</td>
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### SCHEDULE 10: INTERNATIONAL ECONOMIC RELATIONS

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<td>ECON941</td>
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<td>Advanced Topics in Economics - Global Economics</td>
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<td>ECON911</td>
<td>Advanced International Economics</td>
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<td>ECON902</td>
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<td>ECON936</td>
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<td>ECON937</td>
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### SCHEDULE 11: QUALITY MANAGEMENT

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<td>MARK937</td>
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<td>MARK970</td>
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<td>WBS952</td>
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<tr>
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<td>Quality Assurance</td>
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</tbody>
</table>

### SCHEDULE 12: HEALTH MANAGEMENT

Candidates wishing to undertake the Health Management specialisation will be required to successfully complete 48 credit points of study as for the Master of Health Management, followed by 24 credit points of compulsory MBA subjects and 24 credit points of specialisation subjects, as per the following schedule:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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</tr>
</thead>
<tbody>
<tr>
<td>WBS901</td>
<td>Accounting and Finance for Managers</td>
<td>6</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Health Service Planning and Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>GHMD924</td>
<td>Health Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>WBS903</td>
<td>Managing People at Work</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>• Session 1</td>
<td></td>
</tr>
<tr>
<td>WBS911</td>
<td>Managerial Skills Workshop</td>
<td>6</td>
</tr>
<tr>
<td>WBS912</td>
<td>Managerial Ethics Workshop</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• MBA Compulsory Subjects</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WBS910</td>
<td>Economic Analysis of the Health Care Business Environment</td>
</tr>
<tr>
<td></td>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
</tr>
<tr>
<td></td>
<td>GHMD909</td>
<td>Comparative Health Systems: Policies and Politics</td>
</tr>
<tr>
<td></td>
<td>WBS904</td>
<td>Marketing Management</td>
</tr>
</tbody>
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<td>Health Information Systems</td>
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</tr>
<tr>
<td>WBS903</td>
<td>Managing People at Work</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>• Session 2</td>
<td></td>
</tr>
<tr>
<td>WBS911</td>
<td>Managerial Skills Workshop</td>
<td>6</td>
</tr>
<tr>
<td>WBS912</td>
<td>Managerial Ethics Workshop</td>
<td>3</td>
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<td></td>
<td>• Session 2</td>
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</tr>
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<td>Managerial Skills Workshop</td>
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<td></td>
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<tr>
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<td>Managerial Skills Workshop</td>
<td>6</td>
</tr>
<tr>
<td>WBS912</td>
<td>Managerial Ethics Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>
GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT)

The Graduate Diploma in Commerce (Management) is a one year full-time or two year part-time course comprising the following subjects*:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBS901</td>
<td>Accounting and Finance for Managers</td>
<td>6</td>
</tr>
<tr>
<td>WBS902</td>
<td>Managerial Statistics: Analysis, Interpretation and Application</td>
<td>6</td>
</tr>
<tr>
<td>WBS903</td>
<td>Managing People at Work</td>
<td>6</td>
</tr>
<tr>
<td>WBS904</td>
<td>Marketing Management</td>
<td>6</td>
</tr>
<tr>
<td>WBS905</td>
<td>Economic Analysis of the Business Environment in Australia and Asia</td>
<td>6</td>
</tr>
<tr>
<td>WBS906</td>
<td>Information Systems for Managers</td>
<td>6</td>
</tr>
<tr>
<td>WBS911</td>
<td>Managerial Skills Workshop</td>
<td>6</td>
</tr>
<tr>
<td>WBS912</td>
<td>Managerial Ethics Workshop</td>
<td>3</td>
</tr>
<tr>
<td>WBS920</td>
<td>International Management</td>
<td>6</td>
</tr>
</tbody>
</table>

* These subjects are compulsory unless judged by the relevant Departmental Head that a comparable subject in the relevant area has been successfully completed at a similar level of education, in which case students will be directed by the MBA Director to an alternative subject.

Co-ordinator: Professor John Glynn, MBA Director

GRADUATE CERTIFICATE IN MANAGEMENT

The objective of the Graduate Certificate is to provide an introductory study of the concepts of management and management practice. The Certificate is deliberately structured to provide different approved programs of study, including off-campus programs for specific professional groups. The following schedules are currently available:

Schedule 1: The On-campus Program
Schedule 2: The NSW Police Academy Program (Off-campus Study)

SCHEDULE 1: THE ON-CAMPUS PROGRAM

This award is equivalent to 6 months full-time study and is comprised of the following subjects*:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBS901</td>
<td>Accounting and Finance for Managers</td>
<td>6</td>
</tr>
<tr>
<td>WBS902</td>
<td>Managerial Statistics: Analysis, Interpretation and Application</td>
<td>6</td>
</tr>
<tr>
<td>WBS903</td>
<td>Managing People at Work</td>
<td>6</td>
</tr>
<tr>
<td>WBS904</td>
<td>Marketing Management</td>
<td>6</td>
</tr>
<tr>
<td>WBS911</td>
<td>Managerial Skills Workshop</td>
<td>6</td>
</tr>
</tbody>
</table>

* These subjects are compulsory unless judged by the relevant Departmental Head that a comparable subject in the relevant area has been successfully completed at a similar level of education, in which case students will be directed by the MBA Director to an alternative subject.

Co-ordinator: Professor John Glynn, MBA Director

SCHEDULE 2: THE NSW POLICE ACADEMY PROGRAM

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBS801</td>
<td>Command and Leadership</td>
<td>6</td>
</tr>
<tr>
<td>WBS802</td>
<td>Managing Service and Program Delivery</td>
<td>6</td>
</tr>
<tr>
<td>WBS803</td>
<td>Information and Finance Management</td>
<td>6</td>
</tr>
<tr>
<td>WBS804</td>
<td>Human Resources Management</td>
<td>6</td>
</tr>
<tr>
<td>WBS899</td>
<td>Workbased Project</td>
<td>6</td>
</tr>
</tbody>
</table>

Note: Admission to this program and its subjects is restricted to students enrolled in the NSW Police Service Professional Management Development Program. This program is taught only at the NSW Police Academy.

Co-ordinator: Professor Michael Hough
MASTER OF QUALITY MANAGEMENT

The Master of Quality Management (MQM) is a one year full-time or two year part-time course and is offered at Pass or Merit level. On completion of the MQM, well qualified candidates may advance to the Honours Master of Quality Management.

Candidates are required to complete 48 credit points of accredited modules, according to the sequence of study listed below. The basic structure of the program comprises six compulsory subjects, plus two elective subjects.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 1:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WBS9501</td>
<td>Quality in Management</td>
<td>6</td>
</tr>
<tr>
<td>WBS9511</td>
<td>Statistics for Quality</td>
<td>6</td>
</tr>
<tr>
<td>WBS9521</td>
<td>Implementing Quality Systems</td>
<td>6</td>
</tr>
<tr>
<td>WBS9531</td>
<td>Quality Management and People</td>
<td>6</td>
</tr>
<tr>
<td>Session 2:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WBS9541</td>
<td>Quality Management and Design</td>
<td>6</td>
</tr>
<tr>
<td>WBS9711</td>
<td>Quality Management Project</td>
<td>6</td>
</tr>
<tr>
<td>Elective (1)²</td>
<td>One subject selected from the MQM Elective Subject Schedule</td>
<td>6</td>
</tr>
<tr>
<td>Elective (2)²</td>
<td>One subject selected from the MQM Elective Subject Schedule</td>
<td>6</td>
</tr>
</tbody>
</table>

Notes:
1. Compulsory Subject
2. Elective Subject

MQM ELECTIVE SUBJECT SCHEDULE

Candidates may elect, subject to availability, to undertake a general or thematic program of study comprised of 12cp of course work selected from the elective subject schedule listed below. To qualify for recognition of a particular thematic area, the elective program of study must be approved in advance by the Program Co-ordinator.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBS955</td>
<td>Quality Assurance</td>
<td>6</td>
</tr>
<tr>
<td>WBS956</td>
<td>Accounting and Financial Analysis for Quality Management</td>
<td>6</td>
</tr>
<tr>
<td>WBS970</td>
<td>Management Project Planning</td>
<td>6</td>
</tr>
<tr>
<td>MGMT915</td>
<td>Management of Change</td>
<td>6</td>
</tr>
<tr>
<td>MGMT919</td>
<td>Human Resource Strategies and TQM</td>
<td>6</td>
</tr>
<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT979</td>
<td>Financial Decision Making</td>
<td>6</td>
</tr>
<tr>
<td>MARK970</td>
<td>Contemporary Issues in Service Quality</td>
<td>6</td>
</tr>
<tr>
<td>MARK937</td>
<td>Relationship Marketing and Communications</td>
<td>6</td>
</tr>
<tr>
<td>BUSS903</td>
<td>Information Systems for Managers</td>
<td>6</td>
</tr>
<tr>
<td>BUSS905</td>
<td>Management of Systems Development</td>
<td>6</td>
</tr>
<tr>
<td>STAT942</td>
<td>Design and Analysis for Quality Control</td>
<td>6</td>
</tr>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>MECH960</td>
<td>Industrial Quality Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH965</td>
<td>Quality in Engineering Design</td>
<td>6</td>
</tr>
</tbody>
</table>

or any other 6cp postgraduate subject(s) approved by the Program Co-ordinator

Co-ordinator: Associate Professor G John Montagner

GRADUATE CERTIFICATE IN QUALITY MANAGEMENT

Candidates unable to complete the Master of Quality Management may, on reasonable grounds, exit the course with a Graduate Certificate in Quality Management provided they successfully complete 24 credit points of study approved by the Program Co-ordinator.

Candidates will not normally be permitted to enrol directly into the Graduate Certificate in Quality Management.

Co-ordinator: Associate Professor G John Montagner

HONOURS MASTER OF QUALITY MANAGEMENT

Candidates who have completed the requirements for the MQM or who have completed a Bachelor degree at a standard of Honours Class II Division 2 or higher, or approved equivalent qualification, may apply to the Program Co-ordinator to undertake the Honours Master of Quality Management.

The Honours Master of Quality Management is a one year full-time or two year part-time course. Candidates must complete 48cp of study approved by the Program Co-ordinator, comprising a research thesis in Quality Management.
MASTER OF LOGISTICS AND OPERATIONS MANAGEMENT

This course is an extension of existing operations management teaching and research within the Faculty of Commerce and has been specifically designed to provide an approved program of study for managers within the manufacturing, service, transport and retailing industries.

This is a 48 cp program and is equivalent to two years part-time study.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBS925</td>
<td>Inventory Management</td>
<td>6</td>
</tr>
<tr>
<td>WBS926</td>
<td>Manufacturing Management 1</td>
<td>6</td>
</tr>
<tr>
<td>WBS927</td>
<td>Manufacturing Management 2</td>
<td>6</td>
</tr>
<tr>
<td>WBS928</td>
<td>Transport Logistics Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT933</td>
<td>Management of Process Innovation 1</td>
<td>6</td>
</tr>
<tr>
<td>MGMT934</td>
<td>Management of Process Innovation 2</td>
<td>6</td>
</tr>
<tr>
<td>MGMT952</td>
<td>Productions and Operations Management</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>plus BCP of course work selected from:</td>
<td></td>
</tr>
<tr>
<td>ECON935</td>
<td>Advanced Managerial Economics and Operations Research</td>
<td>6</td>
</tr>
<tr>
<td>MGMT979</td>
<td>Financial Decision Making</td>
<td>6</td>
</tr>
</tbody>
</table>

Co-ordinator: Mr John Flanagan

COURSE REQUIREMENTS

1. MASTER OF BUSINESS ADMINISTRATION

This degree is designed for those who require the knowledge, competencies and managerial skills necessary to operate in a challenging and changing global environment. The program of study requires a commitment to team work and an enthusiasm to achieve. Candidates are required to complete 96 credit points of accredited modules. The first half of the program offers an introduction to the core managerial concepts and skills required of the modern manager. These subjects provide a foundation for the specialisation, capstone and project management subjects which follow. The MBA program is designed to enable candidates to undertake a specialisation selected from a range of management focus areas, or the opportunity to study generally across a wide range of advanced management issues.

The degree will be awarded at either Pass or Merit level. For award at Merit level, a student must satisfactorily pass all subjects at the first attempt and maintain a grade average across all subjects of 70% or higher. If a student chooses to study a specialisation, successful completion of that specialisation will be acknowledged on the testamur for the degree, as will the achievement of a Merit level award.

Admission to the MBA program is on the basis of an appropriate balance between academic qualifications and managerial or supervisory experience. Candidates are required to have an undergraduate degree from a recognised university or institution of equivalent standing, plus not less than two years full-time or four years part-time relevant work experience. In special circumstances, applicants holding other academic or professional qualifications and with a minimum of five years full-time or 10 years part-time relevant work experience may be granted admission onto the program by the MBA Director. In addition to the requirement of the standard University application form, candidates are required to submit a certified copy of their academic transcript(s), together with a detailed statement and supporting documentation of their previous work/managers experience and a statement of their career strategy. Applicants may be required to demonstrate an adequate command of English in a commercial context.

The MBA is intended to be completed in eighteen months full-time or three years part-time. It is expected that the compulsory Foundation and Personal Development subjects will be studied first, followed by the specialisation and capstone subjects. The program requires that each candidate complete a Management Project within their chosen area of specialisation, and, wherever possible, participants are encouraged to relate their studies to issues or problems connected with their current working environment.

Course approval: The program of study for each student must be approved by the MBA Director. Students who have substantially covered the content of any of the compulsory subjects may be exempted by the relevant Departmental Head from any such subjects, but will be required to substitute another subject nominated by the MBA Director for each subject for which exemption is granted.

NOTE: Due to different entry criteria and schedules of study, students will NOT be permitted to transfer between MBA and MCom programs.

GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT)

The objective of the Graduate Diploma in Commerce (Management) is to provide practising managers with insights and understandings of the core issues of management skills and concepts. The core subjects covered in the Graduate Diploma provide postgraduate level education with an applied emphasis in the major functional areas of management and administration.

Admission to the Graduate Diploma program is on the basis of an appropriate balance between academic qualifications and managerial or supervisory experience. Candidates are required to have an undergraduate degree from a recognised university or institution of equivalent standing, plus not less than two years full-time or four years part-time relevant work experience. In special circumstances, applicants holding other academic or professional qualifications and with a minimum of five years full-time or 10 years part-time relevant work experience may be granted admission onto the program by the Program Director. In addition to the requirement of the standard University application form, candidates are required to submit a certified copy of their academic transcript(s), together with a detailed statement and supporting documentation of their previous work/managers experience and a statement of their career strategy. Applicants may be also be required to demonstrate an adequate command of English in a commercial context.

The Graduate Diploma is intended to be completed over two sessions of full-time study or four sessions of part-time study. The program requires that...
each candidate complete the six Foundation and the two Personal Development subjects of the MBA program, together with one capstone subject and an elective subject from the MBA schedule.

**Course approval:** The program of study for each student must be approved by MBA Director. Students who have substantially covered the content of any of the compulsory subjects may be exempted by the relevant Departmental Head from any such subjects, but will be required to substitute another subject nominated by the MBA Director for each subject for which exemption is granted.

**GRADUATE CERTIFICATE IN MANAGEMENT**

The objective of the Graduate Certificate is to provide a meaningful introductory study of the concepts of management and management practice. The Graduate Certificate is deliberately structured to provide different approved programs of study, including off-campus programs for specified employment groups (e.g. the NSW Police Service) or specified professional groups (e.g. Public Sector Managers).

Admission to the Graduate Certificate program is on the basis of an appropriate balance between academic qualifications and managerial or supervisory experience. Candidates are required to have an undergraduate degree from a recognised university or institution of equivalent standing, plus not less than two years full-time or four years part-time relevant work experience. In special circumstances, applicants holding other academic or professional qualifications and with a minimum of five years full-time or 10 years part-time relevant work experience may be granted admission onto the program by the Program Director. In addition to the requirement of the standard University application form, candidates are required to submit a certified copy of their academic transcript(s), together with a detailed statement and supporting documentation of their previous work/managerial experience and a statement of their career strategy. Applicants may also be required to demonstrate an adequate command of English in a commercial context.

The Graduate Certificate is intended to be completed over one session of full-time study or two sessions of part-time study. The program requires that each candidate complete the first four Foundation subjects of the MBA program, together with one Personal Development subject from the MBA schedule.

**Course approval:** The program of study for each student must be approved by the MBA Director. Students who have substantially covered the content of any of the compulsory subjects may be exempted by the relevant Departmental Head from any such subjects, but will be required to substitute another subject nominated by the MBA Director for each subject for which exemption is granted.

**EXTERNAL COURSES**

The Graduate Diploma in Commerce (Management) and the Graduate Certificate in Management are available externally through the University's Wollongong OnLine flexible delivery service.

2. **MASTER OF QUALITY MANAGEMENT**

This degree has been designed to equip decision makers and managers with the tools necessary to implement and manage Quality systems within organisations. Candidates are required to complete 48 credit points of accredited modules. The elective stream within the QM program consists of two elective subjects, together with the Quality Management Project, and is designed to allow candidates to focus their studies into a thematic area of interest which will be annotated on the transcript.

The program is offered both full-time (2 sessions) and part-time (4 sessions) for on-campus candidates, and in modularised format (part-time over 4 sessions) in the Sydney CBD. The degree will be awarded at either Pass or Merit level. For award at Merit level, a student must satisfactorily pass all subjects at the first attempt and maintain a grade average across all subjects of 70% or higher. If a student chooses to study a thematic area of interest, successful completion of that thematic area will be acknowledged on the transcript for the degree, as will the achievement of a Merit level award.

For admission to the program, candidates are required to have an undergraduate degree from a recognised university or institution of equivalent standing. In special circumstances, applicants holding other post-secondary qualifications and with a minimum of five years full-time work experience, of which at least two years is in the Quality Management area, may be granted admission onto the program by the Program Co-ordinator. Candidates may also be required to demonstrate an adequate command of English in a commercial context.

**Course approval:** The program of study for each student must be approved by the Program Director. Students who have substantially covered the content of any of the compulsory subjects may be exempted by the relevant Departmental Head from any such subjects, but will be required to substitute another subject nominated by the Program Director for each subject for which exemption is granted.

**GRADUATE CERTIFICATE IN QUALITY MANAGEMENT**

Candidates unable to complete the Master of Quality Management course may, on reasonable grounds, exit the course with a Graduate Certificate in Quality Management provided they successfully complete 24 credit points of study approved by the Program Director. The Graduate Certificate will be awarded at Pass level only.

**NOTE:** Candidates will not normally be permitted to enrol directly into the Graduate Certificate in Quality Management.

**EXTERIOR COURSES**

The Master of Quality Management is available externally through Wollongong OnLine and through the University Centre, Sydney.

**HONOURS MASTER OF QUALITY MANAGEMENT**

The Honours Master degree is designed to provide graduate students who have completed the Master of Quality Management with the opportunity for further in-depth study of advanced topics in Quality Management in preparation for a professional career as a Quality Manager. This degree comprises a 48cp research thesis in Quality Management. The research thesis must be completed with supervision from one of the Faculties of Commerce, Informatics, Engineering or Health and Behavioural Sciences, and may be industry based and tailored to the candidate's work place requirements.

The Honours Master of Quality Management can be studied full-time in one year, or may be studied part-time. Candidates who have completed the requirements for the MQM or who have completed a Bachelor degree at a standard of Honours Class II Division 2 or higher, or approved equivalent qualification, may apply to the Program Co-ordinator to undertake the Honours Master of Quality Management.
3. MASTER OF LOGISTICS AND OPERATIONS MANAGEMENT

The objective of the Master of Logistics and Operations Management Program is to provide senior managers with state-of-the-art knowledge of logistics and operations management theory and practice. The course is an extension of existing operations management teaching and research within the Faculty of Commerce and has been specifically designed to provide an approved program of study for managers within the manufacturing, service, transport and retailing industries.

This is a 48 credit point program and is equivalent to one year of full-time study. Candidates are required to have a three year Bachelor degree in Commerce, Science, Engineering or Mathematics, plus a total of two years full-time relevant work experience.

In special circumstances, candidates holding other acceptable post-secondary qualifications, plus a minimum of five years full-time relevant work experience, may be admitted to the program by the Course Coordinator.

4. MASTER OF INTERNATIONAL BUSINESS

Details of the Master of International Business are available on request from the Business School.

5. MASTER OF HEALTH MANAGEMENT

Details of the Master of Health Management are available on request from the Business School.

SUBJECT DESCRIPTIONS

For descriptions of all non WBS-coded subjects listed under the Business School's programs, please refer to the relevant Departmental or Cross-Faculty sections of this Calendar.

WBS901 Accounting and Finance for Managers
Autumn/Spring 6 cp
This subject provides an introduction to the economic and regulatory framework of accounting, transactions and elements of financial reports, accrual accounting and designing financial reports. It also provides an introduction to external financial reporting and the analysis and interpretation of financial reports; internal financial reports including costs and managerial analysis, CVP relationships, and cost accounting techniques, budgeting, controls, variances, capital expenditure and the time value of money; and project evaluation.

WBS902 Managerial Statistics: Analysis, Interpretation and Application
Autumn/Spring 6 cp
This subject aims to give students an understanding of analysis, interpretation and application of statistics used in a managerial setting. A particular emphasis will be given on the role of computer package applications such as SPSS. This includes descriptive and inferential statistics and multivariate techniques, including multiple regression and factor analysis.

WBS903 Managing People at Work
Autumn/Spring 6 cp
This subject examines the contemporary environment of human resource management with particular reference to organisational strategy and human resource development line and staff managerial roles; the effects of institutional framework and industrial agreements on workplace management and human behaviour and productive performance including needs and motivation, individual and group behaviour, work organisation and management. Managing organisational change in the workplace will be a particular focus of this subject.

WBS904 Marketing Management
Autumn/Spring 6 cp
This subject examines the contemporary view of marketing and focuses on the following areas: international marketing, advertising, consumer behaviour, product development and pricing, sales management, services and relationship marketing, distribution/retailing, marketing research, business-to-business, and contemporary issues in marketing, e.g. Internet, ethics, etc.

WBS905 Economic Analysis of the Business Environment in Australia and Asia
Autumn/Spring 6 cp
This subject begins with an examination of the macro and micro environment of business and organisations in Australia and selected nations in Asia. The processes which lead to the internationalisation of business and globalisation of economics are studied, as well as macroeconomic and microeconomic policies which affect the business environment.

WBS906 Information Systems for Managers
Autumn/Spring 6 cp
This subject provides an understanding of the use and impact of information technology in organisations; in particular, it provides an analysis of the structures and functions of the range of typical computer-based business information systems. The applications of information systems and issues facing managers will be examined. Other issues considered are the integration of discrete applications into the total information system and organisational implications of such integration and automation.

WBS911 Managerial Skills Workshop
Autumn/Spring 6 cp
This subject aims to introduce students to managerial skills which include the leadership of teams, culture and gender issues in management; communication skills; personal productivity; motivation and leadership; power and influence; and conflict and negotiation. This subject will be taught using a combination of lectures, group activities and discussion using case studies, role-plays and debate.

WBS912 Managerial Ethics Workshop
Autumn/Spring 3 cp
This subject explores how managers deal with people who have different ethical perspectives, but feel they are right. Concepts covered include: locus of control, risk perception, regret, blame, emotions and learning, classical Western ethical frameworks, allocation of responsibility, corporate social responsibility. Patterns of argumentation, denial, perceived links of cause and effect, and preservation of work relationships are considered. Class engages in role play, analysis, interviews and reflective journals.

WBS920 International Management
Autumn/Spring 6 cp
This subject will deal with the identification, analysis and resolution of managerial issues of strategy and action within the context of firms operating in the international and global business environment, including the study of major issues in strategic operations, marketing and other areas of international management.
This subject provides an introduction to Quality Management in techniques; and achieving high quality delivery performance. WBS928 Transport Logistics Management covered will include: location analysis; location planning; layout scheduling; and optimisation; case studies and multiple work centre problems; assembly line design and balancing; focused factories; group technology; and information systems and costs systems for production management.

WBS925 Inventory Management Autumn/Spring 6 cp Students taking WBS925 cannot also enrol in MGMT950. This subject aims to provide the student with the state-of-the-art knowledge of inventory management theory and practice. Topics included will be as follows: materials management; management of storage and retrieval facilities; types of inventory problems; measuring inventory performance; inventory management systems for independent demand items; influence of forecasts and uncertainties of demand and lead time; dependent demand inventory systems; multi-echelon inventory management; decision models for inventory management; simulation models of inventory management systems; and case studies of world-class inventory management.

WBS926 Manufacturing Management 1 Autumn/Spring 6 cp Students taking WBS926 cannot also enrol in MGMT951. This subject will provide the student with a thorough knowledge of the basic theories and practices of manufacturing management. Topics covered will include the following: aggregate production planning; capacity planning; master scheduling; material requirements planning; classical approaches to scheduling and sequencing including single work centre and multiple work centre problems; assembly line design and balancing; focused factories; group technology; and information systems and cost systems for production management.

WBS927 Manufacturing Management 2 Autumn/Spring 6 cp Students taking WBS927 cannot also enrol in MGMT958. This subject builds on WBS926 to provide a thorough knowledge of modern contemporary theory and practice in manufacturing management. It will include the following topics: manufacturing resources planning and MRP; JIT manufacturing; finite capacity scheduling; OPT and asynchronous manufacturing; stock cutting problems; optimising batch sizes and sequencing; knowledge engineering and computer assisted scheduling; and world-class manufacturing.

WBS928 Transport Logistics Management Autumn/Spring 6 cp Students taking WBS926 cannot also enrol in MGMT959. This subject provides the student with state-of-the-art knowledge of management systems relating to the transportation of products within manufacturing plants and their distribution to the market. Topics covered will include: location analysis; location planning; layout planning; transportation systems in manufacturing plants; managing the distribution of finished products; optimum vehicle routing techniques; and achieving high quality delivery performance.

WBS950 Quality in Management Autumn/Spring 6 cp This subject provides an introduction to Quality Management in organisations undergoing rapid change. It provides frameworks of understanding for the development of the quality movement in post-industrial society and as a coherent field of intellectual study; an overview of quality tools and their purposes; the critical roles of people and change in quality organisations; and an understanding of services marketing with particular focus on service quality and customer satisfaction.

WBS951 Statistics for Quality Autumn 6 cp Students taking WBS951 cannot also enrol in STAT949. This subject addresses the use of statistical thinking in Quality, covering such topics as Why Statistics?, variability; the seven statistical tools; exploratory data analysis; design of experiments and sampling design; role of data acquisition and management systems. Also covered are statistical modelling and inference, including topics as probability; Normal, Binomial and Poisson distributions; decision making; the relevance of the Central Limit Theorem; process capability and stability; specification and control limits.

WBS952 Implementing Quality Systems Spring 6 cp This subject addresses the systems employed for ongoing quality management, including quality control and quality assurance, as well as improvement of quality. Included is an examination of systems thinking as it applies to quality management; the scope of modern quality systems; ISO quality system certification; continuous improvement methodologies; quality system implementation; various practical high impact methodologies and tools; the financial systems to support quality management endeavours; and case studies.

WBS953 Quality Management and People Spring 6 cp This subject addresses the role of management in achieving quality, individual involvement and commitment, perceptions, communication learning and motivation; interpersonal processes, leadership, team and group dynamics, power, conflict; team approaches in quality management, self-managed teams, team decision making and problem solving; organisational structure and quality, organisational re-design, suppliers and customers value chains; managing the change to a quality culture, resistance and stress, organisational subcultures, symbolic interventions.

WBS954 Quality Management and Design Autumn 6 cp This subject continues the development of major ideas in the management of quality organisations in post-industrial economies covered in WBS950 and WBS953 by developing intellectual frameworks and methodologies for the design of effective management quality systems, establishing new styles of competitive advantage through quality systems in learning organisations; and an examination of quality environments for good design features with particular emphasis on the service, manufacturing and non-profit sectors.

WBS955 Quality Assurance Spring 6 cp This subject provides an opportunity for specialised interest study within the Quality Management program by developing the following frameworks of understanding; the terminologies and purpose of Quality Assurance; studies of selected methodologies of Quality Assurance; a case study in Quality Assurance preparing an organisation for a selected QA award or accreditation.

WBS956 Accounting and Financial Analysis for Quality Management Spring 6 cp This subject will examine the conceptual foundations of costing and cost accounting systems and use these in cost-volume-profit analysis, standard costing, life cycle reporting and the development of cost accounting systems to enhance Quality Management. It will also examine net present value, discounted cash flow and capital budgeting techniques to evaluate the financial performance of Quality Management initiatives.

WBS970 Research and Project Planning Spring 6 cp This subject identifies and examines the framework of understanding from which the role of projects can be seen as a useful tool in Quality
Management. It provides a background for those candidates with limited research experience who have to undertake the capstone subject WBS971 Quality Management Project. This subject enables participants to understand the basic techniques of action research and to scope an outline of their intended project for WBS971.

WBS971 Quality Management Project
Spring 6 cp
This QM capstone subject provides the opportunity for participants to understand the options available for action research while they then apply these to a selected problem of their choice. Examples of different approaches to projects will be provided and contrasted in order to assist participants in the selection of their chosen project. Participants should note that they may find WBS970 Management Project Planning a useful (optional) preparation to this subject.

WBS975 Thesis in Quality Management
Autumn/Spring 48 cp
Each candidate will be required to have a substantive research proposal approved in an aspect of quality management, undertake a satisfactory research cycle into the approved topic, and submit a thesis to an acceptable format and standard.
BUSINESS SYSTEMS

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Commerce by Coursework and/or Research
3. Master of Business Administration (specialisations in Systems Management and Systems Development)
4. Master of Commerce
5. Graduate Diploma in Commerce (Business Information Systems)
6. Graduate Certificate in Business Information Systems
7. Graduate Certificate in Electronic Commerce

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Commerce degree by research and the Doctor of Philosophy degree:

Project 1: The Application of Knowledge-Based Information Systems in Organisations
This project is concerned with the investigation, development and implementation of knowledge-based information systems and associated development methodologies for the purpose of managerial decision support.

Specific areas of investigation include:
(a) the application of knowledge-based systems in commercial environments;
(b) methodologies for the development of knowledge-based systems;
(c) the refinement of knowledge for incomplete domain theories;
(d) the development of second generation expert systems;
(e) intelligent search methods for project management.

Project 2: The Support of Information Systems in Organisations
This project addresses aspects of support important to the efficient and effective operation of information systems in organisations including; the education and training needs of information systems professionals and users, the interface and interaction between personnel and computer-based systems, the management of information systems resources.

Specific areas of investigation include:
(a) information systems curriculum research supporting the education and training needs of users and professionals with a national and international focus;
(b) the human computer interface with a focus on educational applications;
(c) the management of information systems resources with a focus on issues related to open systems;
(d) small business computing and electronic commerce.

Project 3: Information Systems Development in the Organisational Context
This project addresses the evaluation and development of information systems in organisations with focuses on managerial decision making and the use of qualitative analysis.

Specific areas of investigation include:
(a) qualitative analysis of the organisational context of information systems development;
(b) the evaluation and development of information systems for managerial decision making.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAMS IN BUSINESS INFORMATION SYSTEMS

leading to the Master of Commerce or the Honours Master of Commerce.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>(i) Master of Commerce</td>
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<tr>
<td>BUSS945</td>
<td>Information Systems Project</td>
<td>12</td>
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<tr>
<td>BUSS950</td>
<td>Systems Development Methodologies</td>
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<td>BUSS951</td>
<td>Critical Issues in Systems Development</td>
<td>6</td>
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<tr>
<td>BUSS952</td>
<td>Information Systems Management</td>
<td>6</td>
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<td>BUSS953</td>
<td>Management of Systems Development</td>
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<td>12 credit points of 900 level BUSS subjects selected from Schedule 3.</td>
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<tr>
<td>(ii) Honours Master of Commerce</td>
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<tr>
<td>Schedule 2</td>
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<tr>
<td>BUSS981</td>
<td>Advanced Information Systems Topic A</td>
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<td>BUSS982</td>
<td>Advanced Information Systems Topic B</td>
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<td>BUSS983</td>
<td>Advanced Information Systems Topic C</td>
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<td>BUSS984</td>
<td>Advanced Information Systems Topic D</td>
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<td>BUSS986</td>
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<td>BUSS987</td>
<td>Thesis</td>
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For further details, see Course Requirements below.

**MASTER OF BUSINESS ADMINISTRATION**

leading to the Master of Business Administration specialisations in Systems Management, Systems Development or Electronic Commerce. Refer to The Business School entry.

**OTHER POSTGRADUATE SUBJECTS**

<table>
<thead>
<tr>
<th>Number</th>
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<td>BUSS906</td>
<td>Information in Organisations</td>
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<td>BUSS907</td>
<td>Electronic Commerce</td>
<td>6</td>
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<td>BUSS908</td>
<td>Intelligent Tutoring Systems</td>
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<td>BUSS909</td>
<td>Office Automation and Intranets</td>
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<td>BUSS924</td>
<td>Systems Modelling and Simulation</td>
<td>6</td>
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<td>BUSS925</td>
<td>Techniques for Knowledge-Based Systems Development</td>
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<td>BUSS926</td>
<td>Decision Support Systems</td>
<td>6</td>
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<td>BUSS927</td>
<td>Human Computer Interaction</td>
<td>6</td>
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<tr>
<td>BUSS928</td>
<td>Current Issues in Knowledge-Based Systems Development</td>
<td>6</td>
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<tr>
<td>BUSS929</td>
<td>Information Systems Research Methods</td>
<td>6</td>
</tr>
</tbody>
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BUSS 929 may be chosen by MCom and MBA coursework students with approval from the Head of Department.

Not all subjects in Schedule 4 are on offer in any year.

| Schedule 4 |
| BUSS211  | Business Systems Development A                   | 6             |
| BUSS212  | Business Systems Development B                   | 6             |
| BUSS214  | Commercial Programming I                         | 6             |
| BUSS215  | Commercial Programming II                        | 6             |
| BUSS311  | Database Management Systems                      | 6             |
| BUSS312  | Distributed Information Systems                   | 6             |
| BUSS316  | Information Systems Prototyping                   | 6             |
| BUSS317  | Advanced Business Programming                     | 6             |

Descriptions for the subjects in this schedule are provided in the University Undergraduate Calendar. Pre-requisites will not apply to Graduate Diploma and Graduate Certificate students. Students may substitute other 200 or 300 level BUSS subjects in Schedule 4 or 5 with approval from the Head of Department.

| Schedule 5 |
| BUSS211  | Business Systems Development A                   | 6             |
| BUSS212  | Business Systems Development B                   | 6             |
| BUSS311  | Database Management Systems                      | 6             |
| BUSS316  | Information Systems Prototyping                   | 6             |

For further details, see Course Requirements below.

| Schedule 6 |
| BUSS312  | Distributed Information Systems                   | 6             |
| BUSS907  | Electronic Commerce                              | 6             |
| BUSS930  | Current Programming Directions                    | 6             |

One of either

| BUSS 909 | Office Automation and Intranets                  | 6             |
| IACT303  | World Wide Networking                            | 6             |

**COURSE REQUIREMENTS**

1. **DOCTOR OF PHILOSOPHY**

Candidates for this degree enrol in BUSS999.

2. **HONOURS MASTER OF COMMERCE (BUSINESS INFORMATION SYSTEMS)**

1. (a) Candidates who have completed the requirements for the award of the BCom(Hons) in Accountancy, Business Systems Analysis, Economics or Management at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MCom(Hons) degree by completing at honours standard any one of the following courses of study:

   (i) Thesis (48 credit points); or
Specific entry requirements for the Certificate are:

- A one year part-time course is designed for graduates from a recognised tertiary institution seeking an introductory course in the field of information systems.

The course is a coherent program of study which involves the successful completion of eight subjects (48 credit points) as listed above in Schedule 4.

The course is available by part-time study over four sessions (two years), in which case each student takes two subjects in any session, or by full-time study over two sessions.

2. Candidates who have completed the requirements for the BCom degree at a standard less than Honours Class II, Division 2, or equivalent degree, may, subject to the attainment of a satisfactory standard in that degree, be permitted to register as candidates for the MCom(Hons) degree. Such candidates may qualify for the award of the degree by completing at honours standard subjects aggregating not less than 96 credit points of which subjects aggregating not less than 48 credit points shall be selected in accordance with the requirements of (1) above.

3. Candidates holding the combined BCom(Hons) degree including the compulsory 400-level subjects aggregating 30 credit points may proceed to the 48 credit point MCom(Hons) degree; other candidates (with the combined Honours degree who have not completed all the compulsory subjects) will be required to complete any of the compulsory subjects plus subjects aggregating 48 credit points.

4. Candidates required to undertake a preliminary program or required to complete designated subjects at an appropriate standard in accordance with the Honours Masters Rules may have their enrolment cancelled in the event that the preliminary program or designated subjects is not completed at the appropriate standard.

3. MASTER OF BUSINESS ADMINISTRATION (IN SYSTEMS MANAGEMENT AND SYSTEMS DEVELOPMENT)

Refer to the Business School Entry.

4. MASTER OF COMMERCE

The MCom(Pass) degree specialising in Business Information Systems provides graduates with the opportunity to study some advanced topics in information systems and to undertake a research project in one of the areas of research interest in the department. The program aims to both deepen and broaden the knowledge and skills of students in systems development methodology, systems management and a selected area of IS research. Graduates from the program would be qualified to take on a senior analyst or project management role in the IS Department, to plan and initiate innovative use of IT/IS within their organisations, or to pursue further research via doctoral studies. The one year full-time course may also be studied part time. Applicants must have:

- A degree in computing and or IS; or
- A degree with a major study in computing and/or IS; or
- A graduate diploma in computing and/or IS.

5. GRADUATE DIPLOMA IN COMMERCE (BUSINESS INFORMATION SYSTEMS)

This course aims to provide graduates from a recognised tertiary course, a program of studies which will enable them to function as an information systems professional within an organisation or business concern. The course curriculum provides a balanced approach to the technical knowledge and skills as well as the human emphases of the information systems field.

The course is specifically designed for those who hold tertiary qualifications in areas not related to the discipline of information systems and who wish to gain essential initial education in information systems.

Specific admission requirements for the Diploma:

1. a university degree or equivalent;

2. completion of at least the equivalent of one introductory computer or programming subject at tertiary level. Applicants not meeting this requirement may do the Summer Session subject BUSS 111 at this University prior to commencement.

In appropriate circumstances a person may be admitted if he/she submits evidence of such academic and professional attainments deemed to be equivalent to the requirements above.

Course Duration

The course is available by part-time study over four sessions (two years), in which case each student takes two subjects in any session, or by full-time study over two sessions.

Course Structure

The course is a coherent program of study which involves the successful completion of eight subjects (48 credit points) as listed above in Schedule 4.

6. GRADUATE CERTIFICATE IN BUSINESS INFORMATION SYSTEMS

This one year part-time course is designed for graduates from a recognised tertiary institution seeking an introductory course in the field of information systems.

Specific entry requirements for the Certificate are:

- A University degree or equivalent;
- Completion of at least the equivalent of one introductory computer programming subject at tertiary level. Applicants not meeting this requirement may do the Summer Session subject BUSS 111 at this University prior to commencement.
The course is specifically designed for and restricted to those who hold qualifications in areas not related to the discipline of information systems. Students performing at a satisfactory level in the Graduate Certificate may be permitted to continue with the Graduate Diploma in Commerce (Business Information Systems) with up to 24 credit points of specified credit. These students will not be entitled to receive the Graduate Certificate in Business Information Systems.

7. GRADUATE CERTIFICATE IN ELECTRONIC COMMERCE

This one year part-time course is designed for graduates from a recognised tertiary institution seeking an introductory course in the field of electronic commerce. Specific entry requirements for the Certificate are:

(i) a University degree or equivalent;
(ii) completion of at least the equivalent of one introductory computer programming subject at tertiary level. Applicants not meeting this requirement may do the Summer Session subject BUSS 111 at this University prior to commencement.

Course Structure
Requires the completion of four subjects (24 credit points) as listed in Schedule 6.

SUBJECT DESCRIPTIONS

Textbook details are posted on the Departmental noticeboard. Contact hours for 900 level subjects is normally 3 hrs/wk. The postgraduate coordinator for all subjects is Dr L. Schafe.

BUSS903 Information Systems for Managers
Spring 6 cp
This subject aims to provide an understanding of the use and impact of information technology in organizations, in particular it provides an analysis of the structures and functions of the range of typical computer-based business information systems. The applications of information systems and issues facing managers will be examined. Other issues considered are the integration of discrete applications into the total information system and organizational implications of such integration and automation.

BUSS906 Information in Organisations
Autumn 6 cp
This subject establishes a foundation for understanding the role of information systems in organisations and how such systems relate to organisational objectives and structures. Topics covered include: the systems concepts in an organisation; information theory; information flows and decision processes; nature of information systems in organisations; techniques and skills in representing system structures; and integration of information systems into the organisational structure. Examples will be drawn from business organisational settings wherever possible.

BUSS907 Electronic Commerce
Spring 6 cp
This subject examines the principles, techniques, methodologies, organisational and human implications of the business approach to electronic commerce, the business approach to using the internet, commercial applications for the information superhighway and the competitive advantage obtainable from electronic commerce.

BUSS908 Intelligent Tutoring Systems
Spring 6 cp
This subject examines the design, construction, and implementation of intelligent tutoring systems and adaptive instructional programs. It draws upon recent advances in artificial intelligence, software engineering, and the psychology of learning, and applies these developments to the design of computer software for training and instruction. Examples and applications will be drawn from the business environment.

BUSS909 Office Automation and Intranets
Spring 6 cp
This subject considers the integration of key elements in office automation and intranets namely: people; computers; and communication - with the ultimate aim of improving the productivity of office staff. It examines such issues as: the technology of text; hypertext data; image; and audio-processing; human and ergonomic factors; office systems analysis; personnel and professional management aids; computer-based information services and the design of intranets.

BUSS924 Systems Modelling and Simulation
Spring 6 cp
This subject aims to develop the concepts of modelling and simulation as applied to information systems. A variety of models, both deterministic and stochastic and the associated methodologies will be presented. The students will be expected to actually construct a model(s) and to evaluate the performance of the model by analysis or simulation with the view to optimise the performance of the real system. Simulation languages GPSS and SLAM II will be introduced.

BUSS925 Techniques for Knowledge-Based Systems Development
Autumn 6 cp
This subject provides a comprehensive understanding of the techniques and tools used in knowledge-based systems development with particular emphasis on the role of knowledge-based systems in business applications. Topics covered include components of a knowledge-based system, rule-based and frame-based methodologies, knowledge acquisition, knowledge representation, knowledge formulation, inference mechanisms and techniques used in implementing a knowledge-based system. The subject also considers the evaluation and selection of knowledge-based systems development tools and techniques.

BUSS926 Decision Support Systems
Autumn 6 cp
This subject examines the following issues in decision support systems: objective and subjective rationality in decision making; decision making process in individuals and in organisations; uncertainty and risks; Delphi and group techniques; the role of decision support systems in MIS; design and evolution of decision support systems; cognitive styles, man-machine interfaces, tools and techniques in support of decision making.

BUSS927 Human Computer Interaction
Spring 6 cp
The aim of this subject is to make students aware of the multidisciplinary nature of the domain of Human Computer Interaction. It aims to provide students with the knowledge and skills required to make sound judgements about the design of a business computer system in terms of its suitability for achieving the particular goals required by its users, to evaluate how well software systems fulfil the needs of their users and to contribute to the design of user-centred systems in which users and task needs are given major consideration.

BUSS928 Current Issues in Knowledge-Based Systems Development
Spring 6 cp
This subject provides a broader perspective to knowledge-based systems technology by investigating some of the current issues and trends in knowledge-based systems development with particular emphasis on the methods for successful knowledge-based systems applications in the business environment.

BUSS929 Information Systems Research Methods
Autumn 6 cp
This subject will provide a comprehensive introduction to a range of issues related to the choice and application of appropriate research methods for information systems (IS) research. Given the multidisciplinary nature of the IS field, researchers have employed
diverse methods and the students will be exposed to some of the more significant approaches.

BUSS930 Current Programming Directions
Autumn 6 cp
This subject provides an appreciation of the program development tasks of the information systems profession. Topics include: the historical development of programming and computer languages; the fundamentals of computer use, and appropriate software packages; the program development process including basic programming concepts; programming as part of the systems development cycle; software development approaches in modern organisations and current and future trends in computer programming including applications to the internet and the World Wide Web.

BUSS931 Database for Managers
Spring 6 cp
This subject provides an appreciation of the concepts, management and development of database systems in business organisations. Topics covered include: the history of database, the structure of data, database design, issues of database administration, database control issues and practical experience with the use of database packages.

BUSS945 Information Systems Project
Double/Autumn/Spring 12 cp
The aim of this subject is to provide students with the opportunity to study a topic of research interest either within an external organisational setting (MBA students), or within a staff research group in the department (MCom or MBA students). The project will be completed under staff supervision and culminates in the production of a substantial written report plus other products such as software, manuals as appropriate to the project.

BUSS950 Systems Development Methodologies
Autumn 6 cp
This subject aims to overview and compare a range of systems development methodologies through the study of the underlying philosophical basis and methods, tools and techniques used in these methodologies.

BUSS951 Critical Issues in Systems Development
Spring 6 cp
This subject aims to provide a critical examination of the relationships between systems development methodologies and organisational contexts through the study of alternative systems development life cycles and development practices.

BUSS952 Information Systems Management
Autumn 6 cp
This subject examines a number of current management issues pertinent to the effective and efficient use of IS/IT resources throughout an organisation. Issues considered include: strategic planning and the use of IS/IT for gaining competitive advantage; linking business and IS/IT planning, formulating IS/IT architecture, and information management strategies; structure, organisation and placement of the IS/IT Department within the organisation; end-user computing and IS/IT Department support; IS/IT Department functions and operations; organisational change, IS/IT ethics.

BUSS953 Management of Systems Development
Spring 6 cp
This subject provides an introduction to, and overview of, the knowledge and skills required to successfully manage computer-based systems development projects within an organisational setting. Topics and issues considered include: IS/IT project management and its organisational context; project management tools and techniques; feasibility study methods; resource estimation techniques; IS/IT project groups behaviour, and management; systems development environments for professionals and end-users; quality assurance; project and system evaluation.

BUSS981 Advanced Information Systems Topic A 6 cp
BUSS982 Advanced Information Systems Topic B 6 cp
BUSS983 Advanced Information Systems Topic C 12 cp
BUSS984 Advanced Information Systems Topic D 12 cp
BUSS986 Research Report 24 cp
BUSS987 Masters Thesis 48 cp
BUSS999 Doctoral Thesis 48 cp
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Commerce by Coursework and/or Research
   Honours Master of Arts by Coursework and/or Research
3. Master of Commerce by Coursework
4. Graduate Diploma in Commerce (Economics)
5. Graduate Certificate in Applied Economics

POSTGRADUATE PROGRAMS

General Economics
Development Economics
Global Economics
Human Resource Economics
Environmental and Resource Economics
Managerial Economics
Money, Banking and Finance
Public Policy
Quantitative Economics

There is a Supplementary Schedule 11 for postgraduate subjects offered by the Department of Economics for postgraduate students taking other degrees. The Industrial Relations Schedules 12 and 13 are given in the Industrial Relations section. In special circumstances the Head of the Department may substitute an approved 900-level subject for a subject or subjects in Schedules 2 to 11.

Subject to student demand, staff availability, and resource limitations, some subjects may not be available in a given year. The session in which a subject is to be offered will be determined by the Head of Department. Contact the Department of Economics for details.

CURRENT RESEARCH AREAS

The areas of research in which staff can offer supervision are indicated by the areas by Schedules 1 to 11 and by the specific subjects within those schedules. Other areas may be offered subject to consultation with the Head of Department.

SCHEDULE OF PROGRAMS

Variations to the Schedules 1-10 must be approved by the Head of the Department of Economics or the Postgraduate Co-ordinator.

SCHEDULE 1: MASTER OF COMMERCE (HONOURS) ECONOMICS

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<td>Advanced Macroeconomic Theory</td>
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<td>ECON997</td>
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<td>ECON998</td>
<td>Graduate Quantitative Analysis</td>
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<tr>
<td>Plus</td>
<td>Research Report</td>
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<tr>
<td>or</td>
<td>ECON993^2 Thesis</td>
<td>48</td>
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</table>

^1 Head of the Department of Economics may agree to the substitution of another quantitative subject for ECON998.

^2 Only for candidates who have successfully completed ECON996, 997 and 998 or their equivalents.

SCHEDULE 2: GENERAL ECONOMICS

<table>
<thead>
<tr>
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<td>ECON205</td>
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<td>ECON215</td>
<td>Microeconomic Theory and Policy</td>
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<td>Any approved 200 or 300 level Economics subject</td>
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<tr>
<td>ECON936</td>
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<tr>
<td>ECON937</td>
<td>Graduate Microeconomics</td>
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<tr>
<td>and one of</td>
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<tr>
<td>or</td>
<td>Advanced Topics B</td>
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<tr>
<td>or</td>
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### SCHEDULE 3: DEVELOPMENT ECONOMICS

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<tr>
<td>ECON251</td>
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<tr>
<td>ECON303</td>
<td>Economic Development Issues</td>
<td>8</td>
</tr>
<tr>
<td>ECON305</td>
<td>Economic Development Planning*</td>
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<tr>
<td>ECON310</td>
<td>Cost-Benefit Analysis</td>
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<tr>
<td>(b) Master of Commerce</td>
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<tr>
<td>ECON907</td>
<td>Cost-Benefit Analysis</td>
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<tr>
<td>ECON908</td>
<td>Advanced Topics in the Economics of Development</td>
<td>8</td>
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<tr>
<td>ECON923</td>
<td>Applied Economic Development Planning</td>
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### SCHEDULE 4: GLOBAL ECONOMICS

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<td>ECON216</td>
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<tr>
<td>ECON251</td>
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<tr>
<td>ECON252</td>
<td>Global Economics</td>
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<tr>
<td>ECON302</td>
<td>Comparative Economic Systems</td>
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<tr>
<td>ECON307</td>
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<tr>
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<tr>
<td>ECON902</td>
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<tr>
<td>ECON911</td>
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<tr>
<td>ECON924</td>
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### SCHEDULE 5: HUMAN RESOURCE ECONOMICS

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<td>Labour Economics</td>
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<td>ECON315</td>
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<tr>
<td>ECON317</td>
<td>Economics of Health Care</td>
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<td>ECON912</td>
<td>Labour Economics</td>
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<tr>
<td>ECON916</td>
<td>Microeconomic Analysis</td>
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<td>ECON917</td>
<td>Economics of Health Care</td>
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<tr>
<td>ECON957</td>
<td>Productivity and Labour</td>
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### SCHEDULE 6: ENVIRONMENTAL AND RESOURCE ECONOMICS

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<td>ECON310</td>
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<tr>
<td>ECON311</td>
<td>Natural Resource Economics</td>
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</tr>
<tr>
<td>ECON313</td>
<td>Economics of Energy Resources</td>
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<td>(b) Master of Commerce</td>
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<tr>
<td>ECON907</td>
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<tr>
<td>ECON919</td>
<td>Economics of Energy Resources</td>
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<td>ECON938</td>
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<td>ECON943</td>
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* Not on offer 1998
### Schedule 7: Managerial Economics

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<td>ECON332</td>
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### Schedule 8: Money, Banking and Finance

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### Schedule 9: Public Policy

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<td>ECON315</td>
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<tr>
<td>ECON903</td>
<td>Public Finance</td>
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<td>ECON916</td>
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### Schedule 10: Quantitative Economics

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<tr>
<td>Three including at least one 300 level subject from</td>
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<td>ECON221</td>
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<td>ECON222</td>
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<td>ECON228</td>
<td>Quantitative Analysis for Decision Making - 1</td>
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<td>ECON231</td>
<td>Business Statistics and Forecasting</td>
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<td>ECON322</td>
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<td>ECON327</td>
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<td>ECON328</td>
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<tr>
<td>Three from</td>
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<tr>
<td>ECON909</td>
<td>Econometric Theory</td>
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<td>ECON921</td>
<td>Econometric Models</td>
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<td>ECON935</td>
<td>Advanced Managerial Economics and Operations Research</td>
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<td>ECON939</td>
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<td>ECON940</td>
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### Schedule 11: Supplementary

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<td>ECON905</td>
<td>Input-Output Analysis</td>
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</table>
### COURSE REQUIREMENTS

1. **DOCTOR OF PHILOSOPHY**

   For the degree of Doctor of Philosophy, candidates enrol in the subject ECON993 Thesis. Additional subjects may be required.

2. **HONOURS MASTER OF COMMERCE**

   **HONOURS MASTER OF ARTS**

   The purpose of the Honours Masters degree is to provide graduate students who have completed the Economics specialisation for the BCom degree (or equivalent) with the opportunity for further in-depth study of advanced topics in Economics as a preparation for a professional career in economics. Entry requires a BCom degree with a specialisation in Economics or an equivalent degree.

   The Course Rules governing the Honours Masters degree will apply.

   The degree of 96 credit points can be studied full-time over two years, or may be studied part-time.

   For the Honours Master degree students must, subject to the subsequent advanced standing or exemption clause:

   (i) complete Schedule 1 (48 credit points) and

   (ii) complete 24 credit points from section (b) of one of the Schedules (3b-10b) of one of the Schedules 3-10, and

   (iii) complete an additional 24 credit points of approved 900-level economic subjects.

   Students who have completed the BCom(Hons) in Economics or the BA(Hons) in Economics, or an equivalent degree, and who have graduated in Honours with a standard of Class II, Division 2 or higher may be given advanced standing or exemption up to a maximum of 48 credit points of the required 96 credit points.

3. **MASTER OF COMMERCE**

   The purpose of this pass degree is to provide graduate students who have completed the Economics specialisation for the BCom degree (or equivalent) with the opportunity for further in-depth study of advanced topics in Economics as a preparation for a professional career in economics.

   The Course Rules governing the Masters degree will apply.

   The degree of 48 credit points may be studied full-time over one year, or may be studied part-time.

   For the Master of Commerce degree, normally students must complete 48 credit points at the 900 level including:

   (i) 24 credit points from Schedule 1 or section (b) of Schedule 2 and

   (ii) 24 credit points from section (b) of one of the Schedules 3-10.

   Entry requires a BCom degree with a specialisation in Economics or an equivalent degree. Candidates who do not have a specialisation in Economics but who have the equivalent of Economics to second-year level in their undergraduate degree may be permitted to study for the degree provided they have first passed a program of 24 credit points of 300-level Economics subjects approved by the Head of Department; thus the total credit points required for these candidates is 72.

4. **GRADUATE DIPLOMA IN COMMERCE**

   The purpose of this diploma is to provide graduate students who have not completed an Economics specialisation in their undergraduate degree with the opportunity for advanced study in Economics.

   The Course Rules governing Graduate Diplomas will apply. Accordingly, candidates for the Graduate Diploma in Commerce will normally hold a Bachelor degree from an approved institution. In special circumstances a professional person holding a tertiary qualification other than a Bachelor degree may be permitted to enrol.

   The Graduate Diploma in Commerce requires two sessions of full-time study or the part-time equivalent.

   For the Graduate Diploma students must complete 48 credit points including:

   (i) 24 credit points from section (a) of Schedule 2, and

   *Where students have exemptions from these subjects, 24 credit points from Schedules 3 - 11, approved by the Head of Department, may be used to fulfill requirement (i).
will be based on journal articles in which the current econometric
this subject deals with advanced topics in the theory and practice of
dimensions of development and development policy.
issues have been discussed.
specification, estimation, testing, and forecasting. Much of the subject
econometrics and covers contemporary issues of modelling
unemployment and rural-urban migration; technological change;
peasant agriculture and agricultural productivity; human capital and
development; role of capital; credit and institutions; international
adjustment; international monetary system.
The subject is in two sections. The first focuses on a comparison of
the monetary transmission mechanism and policy implications arising
from the Classical, Keynesian, Monetarist and New Classical
theories. The second section analyses the money supply and its
control, and conduct of monetary policy, money in the open economy,
inflation, the Australian financial system, and financial deregulation in
Australia.
Topics covered will include foreign exchange markets; banking and
financial institutions; money supply, price level and international
adjustment; international monetary system.
A subject designed to introduce students to the main developments in
economic theory from the 17th to 20th centuries. Internal changes in
theories, relationships between successive theories and external
influences on this development will be examined. Students will be
expected to read widely in both primary and secondary sources.
The subject provides an in-depth analysis of development in the light of
theory and experience. Topics include: economic growth versus
economic development; poverty and inequality; population growth;
unemployment and rural-urban migration; technological change;
peasant agriculture and agricultural productivity; human capital and
development; role of capital; credit and institutions; international
dimensions of development and development policy.
This subject deals with advanced topics in the theory and practice of
econometrics and covers contemporary issues of modelling
specification, estimation, testing, and forecasting. Much of the subject
will be based on journal articles in which the current econometric
issues have been discussed.

5. GRADUATE CERTIFICATE IN APPLIED ECONOMICS

The purpose of this certificate is to provide graduate students an opportunity for advanced study in Applied Economics. The award is suitable for students who have not completed an Economics specialisation in their undergraduate degree. Section (a) of Schedule 2 is usually most appropriate for such students. The award is also designed for those who have completed an undergraduate major in Economics and who would like to pursue a short course with advanced study in a specialist area. Section (a) of Schedules 3-10 is usually most appropriate for such students.

The Graduate Certificate can be completed in one session of full-time study or the part-time equivalent.

For the Graduate Certificate students must complete 24 credit points from section (a) of one of Schedules 2-10. Some of the subjects have prerequisites which must be met unless waived by the Head of the Department.

SUBJECT DESCRIPTIONS

Composition of Subjects
Normally three hours lectures/seminars per week.

Assessment
Continuous assessment by written assignments, essays and examinations.

Textbooks and subject co-ordinators
Details of textbooks and subject coordinators will be available at the beginning of each session.

The following subjects will not be offered in 1998:

ECON903 Public Finance
ECON905 Input-Output Analysis
ECON919 Economics of Energy Resources
ECON923 Applied Economic Development Planning
ECON925 Advanced Economic Theory
ECON929 Macrodynamics
ECON933 Game Theory
ECON901 Monetary Economics
Spring 8 cp
The subject is in two sections. The first focuses on a comparison of
the monetary transmission mechanism and policy implications arising
from the Classical, Keynesian, Monetarist and New Classical
theories. The second section analyses the money supply and its
control, and conduct of monetary policy, money in the open economy,
inflation, the Australian financial system, and financial deregulation in
Australia.

ECON902 Advanced International Monetary Economics
Spring 8 cp
Topics covered will include foreign exchange markets; banking and
financial institutions; money supply, price level and international
adjustment; international monetary system.

ECON906 History of Economic Thought
Autumn 8 cp
A subject designed to introduce students to the main developments in
economic theory from the 17th to 20th centuries. Internal changes in
theories, relationships between successive theories and external
influences on this development will be examined. Students will be
expected to read widely in both primary and secondary sources.

ECON908 Advanced Topics in the Economics of
Development
Autumn 8 cp
The subject provides an in-depth analysis of development in the light of
theory and experience. Topics include: economic growth versus
economic development; poverty and inequality; population growth;
unemployment and rural-urban migration; technological change;
peasant agriculture and agricultural productivity; human capital and
development; role of capital; credit and institutions; international
dimensions of development and development policy.

ECON909 Econometric Theory
8 cp
This subject deals with advanced topics in the theory and practice of
econometrics and covers contemporary issues of modelling
specification, estimation, testing, and forecasting. Much of the subject
will be based on journal articles in which the current econometric
issues have been discussed.

ECON911 Advanced International Economics
Spring 8 cp
Aspects of some of the following topics are studied in-depth: growth
and trade; factor transfers (foreign investment); tariffs; import-
substituting industrialisation; foreign exchange market; internal and
external balance (the two-gap model).

ECON912 Labour Economics
Spring 8 cp
This subject will provide a comprehensive analysis of labour market
issues using a range of economic theories. Special emphasis is placed
on analysing the structural change in industries and occupations of the
Australian labour market and selected overseas countries.

ECON913 Industrial Economics
Spring 8 cp
A study of industrial organisation and performance, decision-making
criteria and constraints affecting output and distribution of revenue,
market behaviour, and matters of ownership and control of the unit
organisation.

ECON916 Microeconomic Analysis
8 cp
Several areas of microeconomic theory will be selected for advanced
treatment. Within each topic contemporary applications will be
explored after the development of a theoretical base.

ECON917 Economics of Health Care
Autumn 8 cp
Not to count with ECON918.
A survey of economic aspects of the Australian health care system.
Topics covered will include the supply and demand for health services,
health care delivery systems, health insurance, social statistics and
medical decision making. Government policies influencing all aspects
of health care will be analysed and evaluated.

ECON918 Economics of Health Care - A
Autumn 6 cp
Not to count with ECON917.
A survey of economic aspects of the Australian health care system.
Topics covered will include the supply and demand for health services,
health care delivery systems, health insurance, social statistics and
medical decision making. Government policies influencing all aspects
of health care will be analysed and evaluated.
ECON921 Econometric Models  
Spring 8 cp  
This is a subject on the foundations of econometric models. Both single-equation and simultaneous equation models will be studied. Emphasis is on suitable model building with economic content, on obtaining estimates with desirable properties, on testing procedures on model evaluation and selection, and applications. Examples from current Australian econometric models will be critically examined.

ECON924 International Economic Relations - B  
Spring 8 cp  
This subject will examine policy issues in the international economy, especially as they affect the Asia-Pacific region. The role of international economic organisations such as the IMF, World Bank, and GATT will be emphasised as well as issues such as free trade, protectionism, exchange rate determination and international capital flows. Options available to individual countries for international economic policy will be explored.

ECON932 Economic Analysis of the Business Environment  
Autumn/Spring 6 cp  
This subject focuses on the macro and micro environment of business and organisations, and the role of managers in relating their organisational behaviour to the economic environment. Internationalisation of business and the globalisation of economics and markets will be studied as well as macroeconomic and microeconomic policies which affect the business environment.

ECON934 Advanced Financial Economics  
Autumn 8 cp  
Pre-requisite: ECON121 or equivalent.  
An advanced study of the theory of efficient acquisition, financing and composition of assets and production activities with applications in the fields of economics of the firm, agricultural economics and international economics. Optimal control methods and phase-plane diagrams are used for analysing efficient trajectories of capital investment and borrowing. Investors' portfolio choices and producers' activity sets will be analysed within a mean-variance expected utility maximisation framework.

ECON935 Advanced Managerial Economics and Operations Research  
Spring 8 cp  
Pre-requisite: ECON228 or ECON230 or equivalent.  
A study of advanced quantitative techniques techniques applicable to economic and managerial decision-making. This subject covers a wide range of quantitative analyses such as forecasting techniques, Bayesian analysis, Markov process models, PERT, CPM and specialised network algorithms, risk preference analysis, transportation and assignment models and quadratic and nonlinear programming.

ECON936 Graduate Macroeconomics  
Spring 8 cp  
This subject analyses the major factors which determine macroeconomic behaviour and associated policy prescriptions. The effects of consumption and investment, international factors, monetary and fiscal policies on aggregate demand are examined. The determination of wages and prices, inflation and unemployment are also considered in terms of aggregate supply.

ECON937 Graduate Microeconomics  
Autumn 8 cp  
The subject provides the theoretical basis for analysis of a wide range of microeconomic issues and policies. Topics include demand and supply theory, consumer preference theory, theory of the firm, cost functions, market behaviour under perfect competition, monopoly, and imperfect competition; factor markets; general equilibrium theory, externalities and intertemporal choice and risk. The emphasis in these topics is on providing a theoretical foundation that is linked to empirical analysis and interpretation of real world problems.

ECON938 Environmental Economics  
Autumn 8 cp  
This subject will provide a comprehensive analysis of environmental issues utilising the theory of economic externalities and the theory of ecologically sustainable development. Methods used to convert environmental problems and to measure externalities will be analysed. It will also evaluate environmental policies in Australia, developing countries and in the international economy.

ECON939 Principles of Econometrics  
Spring 8 cp  
This course deals with the fundamental concepts of econometrics used in applied economic work in the academic, business and government sectors. The course covers the standard and non-standard econometric models, based on time series, cross-section, or qualitative data. Emphasis will be on applications of the econometric methodologies in empirical research.

ECON940 Econometric Analysis  
Autumn 8 cp  
The subject deals with applications of the econometric theory to microeconomic and macroeconomic analyses. Topics include consumer demand, production function, investment analysis, finance, unemployment, inflation, and international trade. The subject also covers multi-sector economy-wide modelling of the Keynesian and neo-classical classes, and emphasises particularly empirical research on current economic issues.

ECON941 Advanced Topics in Economics A 8 cp  
ECON942 Advanced Topics in Economics B 8 cp  
ECON943 Advanced Topics in Economics C 8 cp  
ECON944 Advanced Topics in Economics D 8 cp  
ECON945 Advanced Topics in Economics E 8 cp  
ECON946 Advanced Topics in Economics F 8 cp  
Topics for these subjects (A-F) may be drawn from any area of Economics which the Head of the Department considers to be suitable preparation for a higher degree and appropriate to the student's special interests.

ECON980 Special Topics in Economics - A 6 cp  
The purpose of this subject is to make available a 6 credit point form of the substantive ECON subjects for MBA students. Special assessment requirements will be provided reflecting the lower work load of a 6 credit point subject. The objectives are those of the substantive subject. This subject can replace designated ECON MBA subjects in MBA Schedules 5, 6, 10 and 11 and MCom (ACCY) Schedule-Treasury (Finance).

ECON981 Special Topics in Economics - B 6 cp  
The purpose of this subject is to make available a 6 credit point form of the substantive ECON subjects for MBA students. Special assessment requirements will be provided reflecting the lower work load of a 6 credit point subject. The objectives are those of the substantive subject. This subject can replace designated ECON MBA subjects in MBA Schedules 5, 6, 10 and 11 and MCom (ACCY) Schedule-Treasury (Finance).

ECON982 Project 16 cp  
ECON983 Research Report 24 cp  
ECON983 Thesis 48 cp  
ECON996 Advanced Macroeconomic Theory  
Autumn 8 cp  
This subject critically reviews advanced contemporary macroeconomic theories and their policy prescriptions. It stresses the need to consider four important concepts; namely the international orientation of macroeconomics, the role of expectations and their formation, the importance of macroeconomic adjustment speeds, dynamics and stability properties, and finally, the difficulty of formulating and implementing consistent, optimum macroeconomic policy in a changing world.
ECON997  Advanced Microeconomic Theory  8 cp
Autumn
The objective of this subject is to provide a balanced and comprehensive coverage of the core topics in theoretical microeconomics, with particular attention to welfare economics, the economics of production, and contestable markets.

ECON998 Graduate Quantitative Analysis  8 cp
Advanced mathematical and statistics techniques used in economic research will be studied. The emphasis will be on mathematical techniques which are of use in understanding advanced theoretical subjects in economics as well as statistical techniques needed to conduct empirical research in economics.

For descriptions of subjects not listed here, refer to Industrial Relations section.
INDUSTRIAL RELATIONS

Offered by the Department of Economics

COURSES OFFERED
The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Commerce by Coursework and/or Research
   Honours Master of Arts by Coursework and/or Research
3. Master of Commerce by Coursework
4. Graduate Diploma in Commerce (Industrial Relations)

POSTGRADUATE PROGRAM
Industrial Relations

CURRENT RESEARCH AREAS
The areas of research in which staff can offer supervision are indicated by the area covered in Schedules 12 and 13 listed below and by the subjects within those schedules. Other areas may be offered subject to consultation with the Head of Department.

SCHEDULE OF PROGRAMS
leading to the Master of Commerce or the Honours Master of Commerce

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON912</td>
<td>Labour Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON913</td>
<td>Industrial Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON944</td>
<td>Advanced Topics in Economics - D</td>
<td>8</td>
</tr>
<tr>
<td>ECON945</td>
<td>Advanced Topics in Economics - E</td>
<td>8</td>
</tr>
<tr>
<td>ECON946</td>
<td>Advanced Topics in Economics - F</td>
<td>8</td>
</tr>
<tr>
<td>ECON948</td>
<td>Employers and Industrial Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON952</td>
<td>Workplace and Enterprise Industrial Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON953</td>
<td>Political Economy of Australian Wage Determination</td>
<td>8</td>
</tr>
<tr>
<td>ECON955</td>
<td>Comparative Studies in Industrial Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON957</td>
<td>Productivity and Labour</td>
<td>8</td>
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<tr>
<td>ECON958</td>
<td>Industrial Relations and Management Thought</td>
<td>8</td>
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<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
<td>6</td>
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<tr>
<td>MGMT962</td>
<td>Environmental and Occupational Health</td>
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<tr>
<td>LAW966</td>
<td>Studies in Industrial Law</td>
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</tr>
<tr>
<td>LAW969</td>
<td>Occupational Health and Safety Law</td>
<td>6</td>
</tr>
<tr>
<td>GMHC954</td>
<td>Organisational Psychology*</td>
<td>8</td>
</tr>
</tbody>
</table>

1. Subject available only to those doing ECON992 Research Report (24 credit points).
* Not on offer in 1998.
For further details, see Subject Requirements in Economics section.

SCHEDULE 13: OTHER POSTGRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON954</td>
<td>Industrial Relations in Australia*</td>
<td>6</td>
</tr>
<tr>
<td>ECON956</td>
<td>Advanced Industrial Relations Processes</td>
<td>8</td>
</tr>
<tr>
<td>ECON973</td>
<td>Employers and Industrial Relations - A</td>
<td>6</td>
</tr>
<tr>
<td>ECON975</td>
<td>Advanced Industrial Relations Processes</td>
<td>6</td>
</tr>
<tr>
<td>ECON991</td>
<td>Project</td>
<td>16</td>
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<td>ECON992</td>
<td>Research Report</td>
<td>24</td>
</tr>
<tr>
<td>ECON993</td>
<td>Thesis</td>
<td></td>
</tr>
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</table>

* Not on offer in 1998.

SCHEDULE 14: INDUSTRIAL RELATIONS

leading to the Graduate Diploma.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON240</td>
<td>Industrial Relations B: Wage Determination in Australia</td>
<td>8</td>
</tr>
<tr>
<td>ECON242</td>
<td>Industrial Relations A</td>
<td>8</td>
</tr>
</tbody>
</table>
Faculty of Commerce

Number | Subject                             | Credit Points |
--------|-------------------------------------|---------------|
ECON243 | Work and Employment Relations       | 8             |
ECON340 | Comparative Studies in Industrial Relations* | 8             |
COMM341 | International and Comparative Employment Relations | 8             |
ECON342 | Research Topics in Industrial Relations* | 8             |
ECON348 | Employers and Industrial Relations | 8             |
ECON352 | Industrial Relations Processes      | 8             |

* Not on offer in 1998.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

For the degree of Doctor of Philosophy, candidates enrol in the subject ECON993 Thesis.

2. HONOURS MASTER OF COMMERCE

HONOURS MASTER OF ARTS

The purpose of the Honours Masters degree is to provide graduate students, who have completed the Industrial Relations specialisation for the BCom or BA degree or equivalent, with the opportunity for further in-depth study of advanced topics in industrial relations in preparation for a professional career as an industrial relations expert. Entry requires a BCom or BA degree with a specialisation in Industrial Relations or an equivalent degree.

The Course Rules governing the Honours Masters degree will apply.

The degree of 96 credit points can be studied full-time over two years, or may be studied part-time.

For the Honours Master Degree students must, subject to the subsequent advanced standing or exemption clause, complete:

Either

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>ECON993</td>
<td>Thesis</td>
<td>48 credit points together with 48 credit points of approved subjects chosen from Schedules 12 and 13</td>
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or

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON992</td>
<td>Research Report</td>
<td>together with 72 credit points of approved subjects chosen from Schedules 12 and 13</td>
</tr>
</tbody>
</table>

Students who have completed the BCom(Hons) or BA(Hons) in Industrial Relations, or an equivalent degree, and who have graduated in Honours with a standard of Class II, Division 2 or higher may be given advanced standing or exemption up to a maximum of 48 credit points of the required 96 credit points.

3. MASTER OF COMMERCE

The purpose of this pass degree is to provide graduate students who have completed the Industrial Relations specialisation for the BCom degree or equivalent with the opportunity for further in-depth study of advanced topics in Industrial Relations in preparation for a career in industrial relations. Entry requires a BCom degree with a specialisation in Industrial Relations or an equivalent degree.

The Course Rules governing the Masters Degree will apply.

For the Master of Commerce degree students must complete 48 credit points chosen from Schedule 12, including at least 24 credit points of ECON subjects.

In special circumstances the Head of the Department may substitute an approved 900-level subject for a subject or subjects in Schedule 12.

4. GRADUATE DIPLOMA IN COMMERCE

The purpose of this diploma is to provide graduate students who have not completed an Industrial Relations specialisation in their undergraduate degree with the opportunity for advanced study in Industrial Relations.

The Course Rules governing the Graduate Diploma will apply.

Students must complete 48 credit points approved by the Head of Department including at least 24 credit points from Schedule 14.

The Graduate Diploma will normally occupy two sessions of full-time study or the part-time equivalent.

SUBJECT DESCRIPTIONS

Textbooks and subject co-ordinators
Details of textbooks and subject coordinators will be available at the beginning of each session.

The following subjects will not be offered in 1998:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON954</td>
<td>Industrial Relations in Australia</td>
<td>8</td>
</tr>
<tr>
<td>ECON955</td>
<td>Comparative Studies in Industrial Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON957</td>
<td>Productivity and Labour</td>
<td>8</td>
</tr>
<tr>
<td>ECON958</td>
<td>Industrial Relations and Management Thought</td>
<td>8</td>
</tr>
</tbody>
</table>

Composition of Subjects
Three hours lectures/seminars per week.

Assessment
Continuous assessment by written assignments, essays and examinations.
ECON948 Employers and Industrial Relations 8 cp
The objective of this subject is to develop an understanding of the pressures and constraints on employers/managers, and the way these influence strategies in the control and administration of the employment relationship. This requires a critical analysis of various theories and styles, as well as practical exercises and evaluation of current trends. The influence of product, labour and financial markets on the strategies and choices will be examined.

ECON952 Workplace and Enterprise Industrial Relations 8 cp
This subject will focus on the employment relationship at the level of the firm and workplace with particular reference to contemporary micro-level reform, in a variety of countries in Asia and Pacific Rim. The nature and effects of the economic environment on managerial styles and trade union organisation will also be examined.

ECON953 Political Economy of Australian Wage Determination 8 cp
An examination of the broad political and economic contexts which have shaped wage-effort bargaining and the major institutions of industrial relations in Australia from 1850 to the present. Some comparative perspectives will also be developed.

ECON956 Advanced Industrial Relations Processes 8 cp
This subject will develop concepts, theories and techniques for the choice and evaluation of strategies and tactics in collective bargaining and advocacy.

ECON973 Employers and Industrial Relations - A 6 cp
Not to count with ECON948.
The objective of this subject is to develop an understanding of the pressures and constraints on employers/managers, and the way these influence strategies in the control and administration of the employment relationship. This requires a critical analysis of various theories and styles, as well as practical exercises and evaluation of current trends. The influence of product, labour and financial markets on the strategies and choices will be examined.

ECON975 Advanced Industrial Relations Processes 6 cp
Not to count with ECON956.
The subject develops concepts and techniques for the choice and evaluation of strategies and tactics in collective bargaining and advocacy. Much of subject will involve case studies and role playing.

For descriptions of subjects not listed here, refer to Economics section.
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Commerce
3. Honours Master of Arts by Coursework or Research
4. Master of Commerce
5. Master of Business Administration
6. Graduate Diploma in Commerce (Management)
7. Graduate Certificate in Management

MASTER OF COMMERCE PROGRAMS*

Human Resource Management
Operations Management
Organisational Behaviour
Public Sector Management

*Not every specialisation is on offer each year

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking research degrees.

HRM & Cross Functional Teamwork
Occupational Health & Safety Management
Innovation & Cross Functional Interactions
Teamwork and Humanistic Managerialism
HR Development-Staff Development & Training. Impacts, & Performance Appraisal Systems
Improving Managerial Effectiveness
Cross-cultural Issues Management
Organisational Learning/Individual Learning
Networks and Regional Development
Change Management/Organisational Change/Organisational Development
Organisational Culture/Organisational Theory
Organisational Communication
Organisational Symbolism and Culture
Gender, in Organisations & Organising Processes & Women in Management
Qualitative Methods/Ethnography/Discourse Analysis
Socio-Technical System Design
Strategic Management & Planning
Strategic Management focusing on Strategic Dynamics of Asian Multinational Corp's.
Corporate and Performance Strategies
Competitive Strategies
Turnaround Management and Recovery Strategies
Management in Non-Profit Organisations
Management and Indigenous Communities
Organisation and Technology Integration
Research Methodology
Management and Public Policy
Quality Management (TQM)
Business Ethics
International Business Management with focus on Joint & Collaborative Ventures
Internationalisation & Globalisation Strategies
Corporate Environmentalism, Environmental Management & Environmental Strategies
Project Management
Statistical Forecasting/Statistical Process and Control
Quality Management in Health Services
Production Planning and Control
Manufacturing Strategy
Intelligent Manufacturing Systems
Innovation (Product and Process)

SCHEDULE OF PROGRAMS

GRADUATE CERTIFICATE IN MANAGEMENT

GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT)

MASTER OF BUSINESS ADMINISTRATION

Refer to The Business School Entry.

A number of subjects in this schedule have been annotated for further explanation. A key to the numbering of the notes is provided below:
### Key to Notes
1. Core subjects only available to MBA/Graduate Diploma/Graduate Certificate students.
2. This subject requires prerequisites - see subject descriptions.
3. MGMT931 will normally be taken as the concluding subject in the MBA sequence, except where specifically stated otherwise by a specialisation schedule or approval by Head of Department of Management.
4. Not on offer in 1998
5. Subject to the approval of the Program Director.

### GENERAL POSTGRADUATE PROGRAM SCHEDULE

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY921</td>
<td>Managerial Finance</td>
<td>6</td>
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<tr>
<td>ACCY922</td>
<td>Capital Investment</td>
<td>6</td>
</tr>
<tr>
<td>ACCY923</td>
<td>Investment Management</td>
<td>6</td>
</tr>
<tr>
<td>ACCY927</td>
<td>Small Business Finance</td>
<td>6</td>
</tr>
<tr>
<td>ACCY928</td>
<td>Multinational Financial Management</td>
<td>6</td>
</tr>
<tr>
<td>ACCY985</td>
<td>Special Topic in Accounting A</td>
<td>6</td>
</tr>
<tr>
<td>ACCY986</td>
<td>Special Topic in Accounting B</td>
<td>6</td>
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<tr>
<td>BUS5903</td>
<td>Information Systems for Managers</td>
<td>6</td>
</tr>
<tr>
<td>ECON907</td>
<td>Cost Benefit Analysis</td>
<td>8</td>
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<tr>
<td>ECON964</td>
<td>Industrial Relations in Australia*</td>
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<tr>
<td>GHMA914</td>
<td>Ergonomics</td>
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<tr>
<td>LAW961</td>
<td>Selected Legal Topics in Management</td>
<td>6</td>
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<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
<td>6</td>
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<tr>
<td>MGMT915</td>
<td>Management of Change</td>
<td>6</td>
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<tr>
<td>MGMT916</td>
<td>Management and Employment Relations</td>
<td>6</td>
</tr>
<tr>
<td>MGMT917</td>
<td>Business Ethics *</td>
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<tr>
<td>MGMT918</td>
<td>Organisational Processes</td>
<td>6</td>
</tr>
<tr>
<td>MGMT919</td>
<td>Human Resource Strategies and TQM</td>
<td>6</td>
</tr>
<tr>
<td>MGMT920</td>
<td>Organisational Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MGMT922</td>
<td>Organisations and their Environments</td>
<td>6</td>
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<tr>
<td>MGMT925</td>
<td>Selected Topics A</td>
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<td>MGMT926</td>
<td>Selected Topics B</td>
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<tr>
<td>MGMT927</td>
<td>Australian Government Administration</td>
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<td>MGMT928</td>
<td>Public Policy Administration</td>
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<td>MGMT931</td>
<td>Strategic Planning &amp; Policy</td>
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<tr>
<td>MGMT933</td>
<td>Management of Process Innovation 1</td>
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<td>MGMT934</td>
<td>Management of Process Innovation 2</td>
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<tr>
<td>MGMT940</td>
<td>Innovation and Entrepreneurship</td>
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<tr>
<td>MGMT941</td>
<td>Small Business Management I</td>
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<tr>
<td>MGMT943</td>
<td>Small Business Management II</td>
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<tr>
<td>MGMT944</td>
<td>Enterprise Project*</td>
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<tr>
<td>MGMT945</td>
<td>Technology Enterprise Project</td>
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</tr>
<tr>
<td>MGMT947</td>
<td>Quality Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT948</td>
<td>Project in Regional Administration*</td>
<td>6</td>
</tr>
<tr>
<td>MGMT952</td>
<td>Production and Operations Management</td>
<td>6</td>
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<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
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<tr>
<td>MGMT960</td>
<td>Case Study</td>
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<tr>
<td>MGMT961</td>
<td>International Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT963</td>
<td>Management of Occupational Health and Safety</td>
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<td>MGMT965</td>
<td>Occupational Hazards I</td>
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<tr>
<td>MGMT966</td>
<td>Occupational Hazards II</td>
<td>6</td>
</tr>
<tr>
<td>MGMT967</td>
<td>Managerial Statistics: Analysis, Interpretation &amp; Application</td>
<td>6</td>
</tr>
<tr>
<td>MGMT968</td>
<td>Communication</td>
<td>6</td>
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<tr>
<td>MGMT976</td>
<td>Competitive Strategy &amp; Analysis</td>
<td>6</td>
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<td>MGMT978</td>
<td>Cross Cultural Management</td>
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<td>MGMT979</td>
<td>Managerial Decision Analysis</td>
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<tr>
<td>MGMT980</td>
<td>Business Research Methods</td>
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<tr>
<td>MGMT981</td>
<td>MBA Project</td>
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<tr>
<td>MGMT982</td>
<td>Project</td>
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<td>MGMT996</td>
<td>Managing for Innovation</td>
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<tr>
<td>TQM911</td>
<td>Introduction to Quality Concepts</td>
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</tr>
</tbody>
</table>

For further details, see Course Requirements below.

### MASTER OF COMMERCE PROGRAMS

The MCom is currently under review and students are required to obtain an approved program of study in conjunction with their MCom Specialisation Director.

Subjects in approved programs will be selected from, but not necessarily confined to, the specialisation outlines described below.
The following Specialisations for the Master of Commerce will not be on offer in 1998:

- Public Sector Management Specialisation
- Organisational Behaviour Specialisation

MASTER OF COMMERCE - HUMAN RESOURCE MANAGEMENT SPECIALISATION

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<td>MGMT911</td>
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<td>MGMT920</td>
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<td>MGMT916</td>
<td>Management and Employment Relations</td>
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<td>Human Resource Management</td>
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<td>LAW980</td>
<td>Law for Professionals</td>
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</table>

*and an Industrial Relations Subject approved by the Course Director*

Specialisation Director: Associate Professor Robert Jones.

For further details, see Course Requirements below.

MASTER OF COMMERCE - OPERATIONS MANAGEMENT SPECIALISATION

<table>
<thead>
<tr>
<th>Number</th>
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<td>MGMT947</td>
<td>Quality Management</td>
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<td>MGMT952</td>
<td>Production and Operations Management</td>
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<td>Human Resource Management</td>
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<tr>
<td>MGMT967</td>
<td>Managerial Statistics: Analysis, Interpretation &amp; Application</td>
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<td>MGMT979</td>
<td>Managerial Decision Analysis</td>
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<tr>
<td>MGMT933</td>
<td>Management of Process Innovation 1</td>
<td>6</td>
</tr>
<tr>
<td>or MGMT934</td>
<td>Management of Process Innovation 2</td>
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</tr>
</tbody>
</table>

*plus a subject from the Postgraduate Schedules.*

Specialisation Director: Mr J Flanagan.

For further details, see Course Requirements below.

GRADUATE DIPLOMA IN COMMERCE (OCCUPATIONAL HEALTH AND SAFETY)*

Course Director: Dr M Zanko.

*This course will not be offered in 1998.

HONOURS MASTER OF ARTS AND HONOURS MASTER OF COMMERCE

Compulsory subjects for students not holding an Honours degree in Management or similar and undertaking a 96 credit point Masters degree.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT986</td>
<td>Special Topic A</td>
<td>12</td>
</tr>
<tr>
<td>MGMT987</td>
<td>Special Topic B</td>
<td>12</td>
</tr>
<tr>
<td>MGMT988</td>
<td>Special Topic C</td>
<td>12</td>
</tr>
<tr>
<td>MGMT989</td>
<td>Special Topic D</td>
<td>12</td>
</tr>
<tr>
<td>plus MGMT991</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

For students with an Honours degree or equivalent, an agreed combination of course work from the list of 900-level subjects offered by Management and one of the following:

- MGMT990 Minor Thesis 24

DOCTOR OF PHILOSOPHY

MGMT991 Major Thesis 48

Course Director: Professor S Linstead.
COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in MGMT991. Candidates should refer to the University's general PhD Rules.

2. HONOURS MASTER OF COMMERCE

(1) (a) Candidates who have completed the requirements for the award of the BCom (Hons) in Accountancy, Economics, Management, or Marketing at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MCom (Hons) degree by completing at honours standard any one of the following courses of study:

(i) Thesis (48 credit points),

or

(ii) A combination of thesis and coursework as approved by the Head of Department, Management, which fulfils the requirements of the Honours Master of Commerce program.

(b) Subjects are to be selected from 900-level subjects offered by the Department of Management or from the Department of Accountancy or the Department of Economics and included in the Schedule of Graduate Subjects; provided that:

(i) A combination of subjects may be approved by the Heads of the relevant units, and

(ii) Subjects aggregating not more than 12 credit points may be selected from those offered by other Departments, where approval is given by the Heads of the respective Departments (ie the Department offering the subject on one hand, and on the other, either Accountancy, Economics or Management as appropriate in each case. The appropriate Department would be the Department in which the student had taken or planned to take more than 48 credit points in Honours subjects for the undergraduate degree and graduate subjects for this degree).

(c) A candidate may not include for this degree subjects similar in content to subjects included in the honours part of the undergraduate course.

(2) Candidates who have completed the requirements for the BCom degree at a standard less than Honours Class II, Division 2, or equivalent degree, may, subject to the attainment of a satisfactory standard in that degree, be permitted to register as candidates for the MCom (Hons) degree. Such candidates may qualify for the award of the degree by completing at honours standard subjects aggregating not less than 96 credit points of which subjects aggregating not less than 48 credit points shall be selected from the specialisation Schedule.

(3) Candidates holding the combined BCom(Hons) degree including the compulsory 400-level subjects aggregating 30 credit points may proceed to the 48 credit point MCom(Hons) degree; other candidates (with the combined Honours degree who have not completed all the compulsory subjects) will be required to complete any of the compulsory subjects plus subjects aggregating 48 credit points.

(4) Candidates required to undertake a preliminary program or required to complete designated subjects at an appropriate standard in accordance with the Honours Master Rules may have their enrolment cancelled in the event that the preliminary program of designated subjects is not completed at the appropriate standard.

3. HONOURS MASTER OF ARTS

(1) (a) Candidates who have completed at an acceptable standard the requirements for the award of the BA(Hons) in Accountancy, Economics or Management at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MA (Hons) degree by completing at honours standard any one of the courses of study listed below under the Honours Master of Commerce degree.

(b) See corresponding comments under the Honours Master of Commerce degree, Management.

(2) Candidates who have completed the requirements for the BA (Hons) degree at a standard less than Class II, Division 2, or equivalent degree, may, subject to the attainment of a satisfactory standard in that degree, be permitted to register as candidates for the MA (Hons) degree. Such candidates may qualify for the award of the degree by completing at honours standard subjects aggregating not less than 96 credit points of which subjects aggregating not less than 48 credit points shall be selected from the specialisation Schedule.

4. MASTER OF COMMERCE

The purpose of this pass degree is to provide graduate students, who have completed a BCom, BBus degree or equivalent, normally at a credit average level or above, from an Australian University or equivalent tertiary institution, with the opportunity of further in-depth study of advanced topics in management.

The degree of 48 credit points may be studied full-time over one year, or may be studied part-time.

Candidates are required to take one of the following specialisations:

- Human Resource Management
- Public Sector Management
- Operations Management
- Organisational Behaviour

Candidates who do not have a BCom or BBus but have successfully completed management/commerce subjects to second year level in their undergraduate degree, which must normally have been completed at a level of credit average or higher, may be permitted to study for the degree provided they first pass a program of 24 points of 200 or 300 or 900-level "Commerce" subjects approved by the MCom Course Director or Head of Department. Thus the total credit points required for these candidates is 72.

A candidate who has not completed a BCom or BBus and not studied any commerce subjects at undergraduate level will be required to take a
5. MASTER OF BUSINESS ADMINISTRATION
Refer to The Business School entry.

6. GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT)
Refer to The Business School entry.

7. GRADUATE CERTIFICATE IN MANAGEMENT
Refer to The Business School entry.

**SUBJECT DESCRIPTIONS**

Textbooks and subject co-ordinator details will be displayed on the Department noticeboard prior to the commencement of semester.

The following subjects will not be on offer in 1998:

- MGMT917 Business Ethics
- MGMT924 Organisations and their Environments
- MGMT927 Australian Government Administration
- MGMT928 Public Policy and Administration
- MGMT943 Small Business Management II
- MGMT944 Enterprise Project
- MGMT945 Technology Enterprise Project
- MGMT948 Project In Regional Administration
- MGMT953 Management of Occupational Health and Safety
- MGMT965 Occupational Hazards I
- MGMT966 Occupational Hazards II
- MGMT968 Communication

**MGMT905 Business Ethics and Law**
Autumn/Spring 6 cp
Not To Count With WBS912

Law and ethics components are woven together to provide insight into their interplay in manager decision-making. Law segments address topics such as the liabilities of managers and company directors; EEO, FOI, IR, and anti-discrimination legislation; and contract law. The ethics elements address both Australian and international business environments from psychological, sociological, and anthropological perspectives. Class addresses: relativism, utilitarianism, duty, locus of control, regret, risk perception, denial, blame, etc. Instruction is by student-centred and experiential methods.

**MGMT906 Managing People At Work**
Autumn/Spring 6 cp
Students Taking MGMT906 Cannot Also Enrol In MGMT911

It is recommended that MGMT906 and MGMT907 be studied in parallel or MGMT906 taken before MGMT907.

Not To Count With WBS903

A study of the contemporary environment of human resource management with particular reference to organisational strategy and human resource development; line and staff managerial roles, and the effects of institutional framework and industrial agreements on workplace management. Human behaviour and productive performance including needs and motivation, individual and group behaviour, work organisation and management. Managing organisational change in the workplace will be a particular focus of this subject.

**MGMT907 Managerial Skills Workshop**
Autumn/Spring 6 cp
Not To Count With WBS911

This subject focuses on the individual and group skills needed by managers to function in organisational settings. The skill focus will include: communication skills in a managerial environment; time and stress management; conflict and dispute resolution; negotiation skills; staff selection and dismissal/counselling skills; personal effectiveness skills; managing personal and group performance; networking; information gathering, evaluating skills and environmental scanning skills.

**MGMT911 Organisational Behaviour**
Autumn 6 cp
Students Taking MGMT911 Cannot Also Enrol In MGMT906.

A study of the behaviour of individuals in organisations, groups and organisational processes, leadership and communication, organisation design and job design, appraisal of performance, processes of organisational change and development.

**MGMT915 Management of Change**
Spring 6 cp
Pre-requisite: MGMT911 OR MGMT906.

This subject examines the process of change within an organisation. Issues under discussion will be: change models; characteristics of innovative organisations; acceptance/resistance of change; factors of change; reasons for change; intervention strategies; planning and monitoring change; sustaining change.

**MGMT916 Management and Employment Relations**
Autumn 6 cp

The subject analyses the management of employment relationships using a number of social theories and utilising the perspectives of individuals, unions, employers and government. The impact of technical/administrative skills, political skills and culture creation on the management of work and employment relationships is assessed. These theoretical frameworks are applied to recruitment and selection, training, labour markets, job and organisational design and pay and performance policies.

**MGMT918 Organisational Processes**
Spring 6 cp

This subject will examine the nature of organisational processes using three primary levels of analysis: the organisation, the work group and the individual. The focus will be on advanced theoretical and applied skills via reflective activities on a range of topic areas including: inter and intra-organisational power, emergence and social boundaries of organisations, self-directed work arrangements, goal setting, organisational aspects of communication, and substantive problem solving techniques.

**MGMT919 Human Resource Strategies and TQM**
Spring 6 cp

This subject will examine the human resource management aspects of Total Quality Management (TQM). TQM developed as a set of managerial practices, a focus on teamwork and cultural change intended to create management systems able to compete in world markets. The specific elements of TQM that relate to the management of people will be analysed in terms of their theoretical and practical implications for management. Case studies on the implementation of TQM will be discussed. Future trends in management practice and management theory arising
from the development of TQM will be assessed

MGMT920 Organisational Analysis

Spring 6 cp

This subject examines organisations and the development of organisation design, structure and control. Topics will include: major components of structure, determinants of structure and organisational design. Application of theory in the areas of job design, the management of change, management of conflict, new technology, organisational culture, and organisation-environment relations will also be considered.

MGMT925 Selected Topic A

Autumn/Spring 6 cp

A special topic selected from any area of management. The selection would be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interests of students.

MGMT926 Selected Topic B

Autumn/Spring 6 cp

A special topic selected from any area of management. The selection would be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interests of students.

MGMT931 Strategic Planning and Policy

Autumn 6 cp

Not To Count With WBS921

Pre-requisite: This is the Capstone course for the MBA and as such is to be taken only during the final semester of the MBA programme.

The subject will use case studies as a key teaching vehicle and will examine strategy in the context of organisations. Key topic areas may include: strategy formulation, choice and implementation; strategy and the organisational context; strategy and competitive advantage; corporate and global strategies.

MGMT933 Management of Process Innovation 1

Autumn 6 cp

A key concern of contemporary technology management is improving the rate and quality of process innovation by adopting new methods to successfully integrate environmental, human, organisational and technological factors. This subject introduces the student to the interdependent human and technological character of work systems and provides principles and methodologies for designing more effective organisations. This subject is focused on the 'design' aspects of process innovation and covers some detail, socio-technical system design.

MGMT934 Management of Process Innovation 2

Spring 6 cp

Contemporary management literature on process innovation is dominated by universalistic contingency models of 'best practice'. In contrast, this subject develops a more 'contextual' model of innovation, and provides principles and methodologies for the development of implementation strategies that integrate technical and organisational innovation in the effective realisation of new work systems. The subject will explore in detail the modern approaches to project implementation, cross functional project leadership and the various phases of implementation management.

MGMT940 Innovation and Entrepreneurship

Spring 6 cp

True Entrepreneurship and Innovation are key to the future economic development in many nations. This subject investigates the Innovation and Entrepreneurial processes, including New Venture Creation and Entrepreneurship. Students will learn how to differentiate between a good idea and a real business opportunity. A key part of this subject is the development of a realistic written business plan for an innovative business opportunity and its presentation via an action learning process utilising teams.

MGMT941 Small Business Management 1

Autumn 6 cp

The Small to Medium Enterprise (SME) is becoming increasingly important to the economic well being of many nations. This subject has a practical focus by giving students an opportunity to develop an awareness and understanding of the key factors involved in successfully starting, operating and growing a SME. Detailed investigations of realistic SME scenarios as well as the major growth area of Franchising is undertaken by students.

MGMT947 Quality Management

Autumn 6 cp

This subject provides the student with an understanding of how an organisation can successfully make the transition to Total Quality Management (TQM). Specific topics: Japanese management practices and the impact on competitive advantage; TQM and corporate strategy; Kanban and JIT production management; quality circles; statistical tools and controls, Kanban management; applications, implementation and auditing of TQM. Special emphasis is placed on the necessary changes in organisational structure and culture.

MGMT952 Production and Operations Management

Spring 6 cp

A study of the design and operation of activities for the production of goods and services. Topics include: qualitative, quantitative forecasting, production planning, scheduling, management of quality and productivity, project management, and flexible manufacturing systems (FMS). Emphasis will be placed on a comparison of Japanese production and quality management methods with traditional Western methods, total quality management (TQM), computer aided manufacturing (CAM), and implications for human resource management.

MGMT953 Human Resource Management

Autumn 6 cp

This subject addresses key areas associated with the functional specialisation of human resource management, and expect these to broaden the organisational context. It focuses on major functional policies and programs such as human resource planning, strategic HRM, job analysis, employment law, recruitment and selection, performance management, compensation, human resource development, occupational health and safety and international HRM. Students are encouraged to draw upon their work experiences in classes and assignments to enhance learning.

MGMT955 Special Topic in Management

Autumn/Spring 6 cp

A special topic selected from any area of management. The selection would be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

MGMT960 Capstone Study

Autumn/Spring 6 cp

An in depth analysis of a particular managerial problem encountered in a specific company or industry situation.

MGMT961 International Management

Autumn 6 cp

Not To Count With WBS920

This course deals with the identification, analysis and resolution of managerial issues of strategy and action within the context of firms operating in international and global environment. Through the study of issues in strategic and functional areas of international operations and the analysis of complex cases and project topics, students will develop skills in analysing competitive forces in global markets and in understanding the basis for successful international strategies.

MGMT967 Managerial Statistics: Analysis, Interpretation & Application

Autumn/Spring 6 cp

Not To Count With WBS902

This subject introduces the quantitative techniques used to compile, interpret and analyse data. A particular emphasis will be given on the role of the computer in the application of statistical tools, and the subject will provide a coverage of the main quantitative techniques used in business as an aid to decision making.
MGM976 Competitive Strategy and Analysis  
**Autumn**  
6 cp  
This subject introduces a conceptual framework for analysing competitors and competition in industry. Topics include: structural frameworks for analysis; generic strategies; strategies in fragmented, emerging, declining, transitional and mature industries; global strategies, vertical integration, new entry and diversification.

MGM978 Cross Cultural Management  
**Spring**  
6 cp  
Pre-requisite: MGMT961 or WBS920  
The subject explores management practices, issues and theory across cultures in international business. It seeks to engage students with problems associated with management practices in a context of increasing global contact. Topics include the communication, technology, comparative management practices, managing with multicultural policies and the implications of culture for international/global managers. On successful completion of this course, students will have an appreciation and knowledge of managing across cultural boundaries in international business.

MGM979 Managerial Decision Analysis  
**Autumn/Spring**  
6 cp  
This subject focuses on the quantitative and qualitative techniques available to managers in problem solving and decision making in organisations. Decision making models will be explored and will examine the criteria used for rational decision making under conditions of risk and uncertainty. This decision making process will focus in areas such as forecasting, budgeting, financial planning and decision analysis.

MGM980 Business Research Methods  
**Spring**  
6 cp  
The subject is designed to familiarise students with the basic tools and techniques of empirical research methods in business. A part of the assessment procedures will include a problem identification project in which students will be given some "hands-on" experience in identifying suitable business problems and formulating an appropriate research design. These "problem identification" projects would normally form the basis for the students' research project. Topics include the following: Introduction to philosophy of research; Problem identification and hypothesis development; Modes of designing research; Validity and reliability problems; Techniques for measuring characteristics; Sample size and response rates; Analysis of data.

MGM981 MBA Research Project  
**Annual**  
24 cp  
Pre-requisite: MGMT980 and completion of at least 42 credit points of MBA subjects at an average grade of credit or higher or by permission of the Head of Department.  
An examination and analysis of a selected management problem or issue. The project traditionally forms a link between several subjects and there will be regular integrating seminars during the project period for students to make presentations of their research questions, methods and conclusions.

MGM982 Project  
**Autumn/Spring**  
18 cp  
Pre-requisite: MGMT980.  
This subject constitutes the second component of the project study option within the MBA. This subject enables the research proposal developed in MGMT980 to be implemented, under the guidance of a nominated supervisor. A substantive project report to an approved format will be the output from this subject.

MGM986 Special Topic A  
**Autumn /Spring**  
12 cp  
This subject may be taken only with permission of the Head of Department of Management.

MGM987 Special Topic B  
**Autumn/Spring**  
12 cp  
This subject may be taken only with permission of the Head of Department of Management.

MGM988 Special Topic C  
**Autumn/Spring**  
12 cp  
This subject may be taken only with permission of the Head of Department of Management.

MGM989 Special Topic D  
**Autumn/Spring**  
12 cp  
Master of Commerce Honours qualifying subjects consisting of a program of course work and reading as prescribed by the Head of the Department of Management.

MGM990 Minor Thesis  
**Annual**  
24 cp  
Approved program of study agreed with the Head of the Department of Management or Course Director.

MGM991 Major Thesis  
**Annual**  
48 cp per year  
Approved program of study agreed with the Head of the Department of Management or Course Director.

MGM996 Managing for Innovation  
**Spring**  
12 cp  
This subject will deal with the development and creation of innovative business opportunities for both the start-up entrepreneurial team and the existing organisation. The material to be covered shall include: Developing an innovative culture in organisations; Sourcing innovative opportunities for the organisation both internally and externally; Overcoming barriers to innovation; Changing bias toward creativity in employees and management; Initial screening and evaluation of innovative opportunities; Critique of contemporary innovation literature.
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Commerce
3. Master of Commerce
4. Master of Business Administration (refer to The Business School entry)
5. Graduate Diploma of Commerce (Marketing)
6. Graduate Certificate in Marketing

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking research degrees.

Advertising and Customer Satisfaction
Marketing Communication and Consumer Behaviour
Marketing Research
Professional Services Marketing
International Marketing
New Products Marketing
Strategic Planning and Marketing
Relationship Marketing
Sales Management
Services Marketing

SCHEDULE OF PROGRAMS

MASTER OF COMMERCE-MARKETING

Subjects to be taken from the following list after discussion and approval from the MCom Marketing director: Phil Scott

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK917</td>
<td>Business to Business Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK922</td>
<td>Marketing Management</td>
<td>6</td>
</tr>
<tr>
<td>MARK935</td>
<td>Marketing Planning and Strategy</td>
<td>6</td>
</tr>
<tr>
<td>MARK936</td>
<td>Consumer Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MARK937</td>
<td>Relationship Marketing and Communications</td>
<td>6</td>
</tr>
<tr>
<td>MARK938</td>
<td>Managing Services Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK939</td>
<td>Contemporary Issues in International Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK956</td>
<td>New Product Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK957</td>
<td>International Marketing Strategy</td>
<td>6</td>
</tr>
<tr>
<td>MARK959</td>
<td>Sales Management</td>
<td>6</td>
</tr>
<tr>
<td>MARK970</td>
<td>Contemporary Issues in Services Quality</td>
<td>6</td>
</tr>
<tr>
<td>MARK977</td>
<td>Research for Marketing Decisions</td>
<td>6</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

GRADUATE DIPLOMA OF COMMERCE-MARKETING

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK217</td>
<td>Consumer Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MARK239</td>
<td>Analysis for Marketing Decisions</td>
<td>6</td>
</tr>
<tr>
<td>MARK319</td>
<td>Marketing Research</td>
<td>6</td>
</tr>
<tr>
<td>MARK333</td>
<td>Marketing Communication</td>
<td>6</td>
</tr>
<tr>
<td>MARK343</td>
<td>International Marketing</td>
<td>6</td>
</tr>
<tr>
<td>or MARK397</td>
<td>Retail Marketing Management</td>
<td>6</td>
</tr>
<tr>
<td>MARK922</td>
<td>Marketing Management</td>
<td>6</td>
</tr>
<tr>
<td>MARK938</td>
<td>Managing Services Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MARK959</td>
<td>Sales Management</td>
<td>6</td>
</tr>
</tbody>
</table>

MARK922 must be taken in the first session; pre-requisites for the undergraduate-level subjects will then be waived.

For further details, see Course Requirements below.
GRADUATE CERTIFICATE IN MARKETING

The Graduate Certificate in Marketing will consist of 4 subjects from the Graduate Diploma of Commerce (Marketing) Schedule, including:

<table>
<thead>
<tr>
<th>MARK922</th>
<th>Marketing Management</th>
<th>6</th>
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plus at least one additional 900 level subject.

MARK922 must be taken in the first session; pre-requisites for the undergraduate-level subjects will then be waived.

For further details, see Course Requirements below.

Note: Some subjects have pre-requisites. Check subject descriptions for details.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates should refer to the University's general PhD Rules. Candidates for this degree enrol in the subject MARK991 Major Thesis.

2. HONOURS MASTER OF COMMERCE

Candidates who have completed the requirements for the award of the BCom (Hons) in Accountancy, Economics, Management, or Marketing at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MCom (Hons) degree by completing at honours standard any one of the following courses of study:

(i) Thesis (48 credit points),
(ii) A combination of thesis and coursework as approved by the Head of Department, Marketing, which fulfills the requirements of the Honours Master of Commerce program.

A candidate may not include for this degree subjects similar in content to subjects included in any previous degree course.

3. MASTER OF COMMERCE

The purpose of this degree is to provide graduate students, who have completed a BCom, BBus degree or equivalent, normally at a credit average level or above, from an Australian University or equivalent tertiary institution, with the opportunity of further in-depth study of advanced topics in marketing.

The degree of 48 credit points may be studied full-time over one year, or may be studied part-time.

Candidates who do not have a BCom or BBus but have successfully completed marketing/commerce subjects to second year level in their undergraduate degree, which must normally have been completed at a level of credit average or higher, may be permitted to study for the degree provided they first pass a program of 24 points of 200 or 300 or 900-level "Commerce" subjects approved by the MCom Course Director or Head of Department. Thus the total credit points required for these candidates is 72.

A candidate who has not completed a BCom or BBus and not studied any commerce subjects at the undergraduate level will be required to take a 96 credit point course, which may include 48 credit points of undergraduate subjects from the Commerce Schedule, as determined by the MCom Course Director. 24 credit points of this undergraduate course work must be taken at the 300-level.

4. GRADUATE DIPLOMA OF COMMERCE (MARKETING)

This course is designed for graduates from disciplines other than Commerce, to enable students to gain a qualification in Marketing.

On successful completion of this Graduate Diploma, students will be eligible to apply for the Master of Commerce (Marketing) degree.

5. GRADUATE CERTIFICATE IN MARKETING

Like the Graduate Diploma, this course is designed for graduates from disciplines other than Commerce, to enable students to gain a qualification in Marketing.

On successful completion of this Graduate Certificate, students will be eligible to move into the Graduate Diploma program.

SUBJECT DESCRIPTIONS

MARK917 Business to Business Marketing

Autumn 6 cp

Prerequisite: MARK922

Business to Business Marketing covers issues particular to the situation where one business markets a product or service to another business (rather than to an individual consumer). This subject is also referred to at times as Industrial Marketing. The objectives are to educate students regarding the major theoretical concepts and processes involved in business to business marketing, the application of these concepts to real life situations through the use of case studies and "real life" examples.

MARK922 Marketing Management

Autumn and Spring 6 cp

The subject examines the contemporary view of marketing and focuses on the following areas: identification of market opportunities; segmentation and target marketing; marketing mix decisions; service marketing; and international marketing.

MARK935 Marketing Planning and Strategy

Spring 6 cp

Prerequisite: MARK922

With the use of case studies, this subject will examine the development and implementation of marketing plans and strategies at the organisational level. Key issues may include: marketing's strategic role in the organisation; marketing strategy and competitive advantage, including marketing mix strategies; marketing strategy formulation, implementation and control.

MARK936 Consumer Behaviour

Spring 6 cp

Pre-requisite: MARK922
The subject will explore the motives of consumers during the purchase of products and services. It will investigate sociological and psychological concepts as they specifically apply to the behaviour of consumers in order to learn how to make more effective marketing decisions. In addition to a required text that will be used to understand the theory, readings and case studies will be assigned for practical application of the concepts.

MARK937 Relationship Marketing and Communications
Autumn 6 cp
Pre-requisite: MARK922.
Traditionally marketing has been about getting customers. Relationship marketing addresses the twin concerns - getting and keeping customers. The subject also examines the nature of communication in marketing and critically evaluates the promotional strategy planning process, situation analysis, promotional objectives, promotional budget, management of advertising and sales promotion efforts and evaluation of the effectiveness of promotion.

MARK938 Managing Services Marketing
Autumn 6 cp
Pre-requisite: MARK922.
This course provides an in-depth analysis of the problems facing services marketing managers. Through lectures, class discussions, readings and case analysis, plus observation of firms in actual service situations, students will develop insights concerning the unique characteristics of marketing in the services sector. Major topics include: Problems and Strategies in Services Marketing; Understanding the Service Experience; Dimensions of Service Quality; Services Marketing Mix; Growth Strategies for Service Firms and Marketing Implementation Issues.

MARK939 Contemporary Issues in International Marketing
Autumn 6 cp
Pre-requisite: MARK922.
This subject examines the role of globalization and international marketing in economic development. The major focus is on the discourse of globalization and how this relates to current issues in international marketing. Topics include: cultural and social effects of international marketing, the role of multinationals in developing countries, ecological effects of globalization and economic development, consumer issues in developing countries, and the role of government in international marketing.

MARK954 Special Topic in Marketing A 6 cp
A special topic selected from any area of marketing. The selection would be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

MARK956 New Product Marketing
Autumn 6 cp
Pre-requisite: MARK922.
New Products are the "lifeblood" of the modern organisation, with the majority of firms' sales coming from new products or services which they have introduced in the past 3 years. With a combination of theory and practical "hands-on" assignments, this course takes students to the status of "new products executives" - ie capable of managing the new product process from new products strategy to successful launch.

MARK957 International Marketing Strategy
Spring 6 cp
Pre-requisite: MARK922.
The course will encompass the issues involved in International Marketing. Primary focus will be on the strategic aspects with particular emphasis on environmental consideration and international marketing decisions in the global context. A managerial perspective will be adopted and decision-making skills will be imparted through the case method of instruction.

MARK959 Sales Management
Spring 6 cp
Pre-requisite: MARK922.
This course involves organising and planning the company's overall personal selling efforts and integrating these efforts with the other elements of the firm's marketing strategy. It also includes the selecting of appropriate sales personnel and designing and implementing policies and procedures that will direct their efforts towards the firm's desired objectives. The final part of the course involves developing procedures for monitoring and evaluating sales force performance so that adjustments can be made to either the sales program or its implementation when performance is unsatisfactory.

MARK960 Case Study
Autumn, Spring or Summer 6 cp
This is an approved program of study to be agreed with the Head of Department, where students will conduct an in-depth analysis of a particular marketing problem.

MARK970 Contemporary Issues in Services Quality
Spring 6 cp
Pre-requisite: MARK922 - not applicable to Quality Management students.
This course will focus on advanced topics in service quality, customer satisfaction with services, and strategic issues relating to the marketing of service firms. Emphasis will be placed on reviewing contemporary readings in the academic and professional literature.

MARK977 Research for Marketing Decisions
Spring 6 cp
Pre-requisite: MARK922.
This subject is concerned with examining the techniques and principles for systematically collecting, recording, analysing and interpreting data that can aid decision makers who are involved with marketing products, services, or ideas. Topics include: the structure and function of research information; problem definition and research design; the measurement of consumer attitudes and preferences; design of sampling plans; collecting primary and secondary data; analysing and interpreting statistical research results.

MARK989 Special Topic B
Autumn, Spring or Summer 12 cp
A program of coursework and reading as prescribed by the Head of Department. This subject is normally available only to MCom(Honours) students.

MARK990 Minor Thesis
For information please contact the Department of Marketing.

MARK991 Major Thesis 48 cp per year
For information please contact the Department of Marketing.
MEMBER UNITS

The Graduate School of Journalism is a member unit of the Faculty of Creative Arts.

RESEARCH COURSES AVAILABLE

The Faculty offers Master of Creative Arts, Master of Arts (Honours), Doctor of Creative Arts and Doctor of Philosophy degrees by research.

POSTGRADUATE PROGRAMS

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FULL TIME STAFF

FACULTY OFFICE

Dean
Professor Sharon Bell, BA PhD Syd

Sub-Dean
Mr David Vance, BA UNSW, BMus Syd, LMusA

Faculty Officer ........................................................(02) 42214621
Olena Cullen, BA DipEd

Dean's Assistant ........................................................(02) 42213985
Ms Mary Street

Senior Lecturer and Music Development Officer
David C Vance, BA UNSW, BMus Syd, LMusA

Senior Lecturers
Liz Jeneid, DipTeach SKTC, MCA
Ian F McGrath, MCA DCA
Diana Wood Conroy, BA Syd, DCA

Lecturers
Merlinda Bobis, BA MA Manila, DCA
Gregor Cullen, DipArt Alex Mackie
Wayne Dixon, AMusA, LTCL, MA
Houston Dunleavy, BA BMus Melb, MM(Comp) MM(Choral Cond)
Cleveland, PhD Buffalo
Frances Dyson, BA ANU, PhD UTS
Jane Edwards, BMus Tas
Ian Gentle, DipArt Alex Mackie, MCA
Clem Gorman, DipArtsAdmin Lond Cent Poly, BA Syd
Janys Hayes, BSc Melb, DipAct Drama Centre Lond
Richard Hook, BA WAust, PostGradCertEd Lond, MFA Tas
Jeff Kevin, Dip Act PG Act NIDA, MCA
Lotte Latukefu, BMus Canberra School of Music, DipOpera Qld Con,
MMus Manhattan School of Music
Ken Orchard, BAFA South Aust Coll, MAFA Syd Coll of Arts
John A Scott, BA DipEd Monash
John Senczuk, DipDesign NIDA
Vanessa Sharman, BMus, GDipMus Tas
Jelle van den Berg, Dip Ed HeerenvenAcP, Art Cert GroningenAcP,
Grad Dip Art GroningenAcVisArts

Professorial Fellows
Herbert Flugelman
Andrew Schultz, BMus PhD Qld, MMus Lond

Director Permanent Collection
Guy Warren

Administrative Assistants
Jenny Fullerton
Sheila Hall
Jenny Railings, TDipT

Senior Technical Officer
Des Fitzsimons

Technical Officer, Computing
To be advised

GRADUATE SCHOOL OF JOURNALISM

Head .................................................................(02) 42213190
Eric Loo, BA BComm Malaysia, MA Uni of Philippines

Professor
Clement Lloyd, BA BEd Sydney, BLegSt Macq, MA PhD ANU, AO

Lecturer
David Blackall, DipAppSc CSU, DipEd MA(Jour)

Technical Officer
Vicky Wallace, MA(Jour)

FACULTY VISITING COMMITTEE

Maureen Barron, Head of Business Affairs, Southern Star Group
Katherine Brisbane, Co-founder and Editor, Currency Press
Ian Collie, Director, Arts Law Centre of Australia
Gerald English, holder of a Keating Fellowship, former Dean of the
Victorian College of Arts-Opera School
Ross Gibson, Lecturer in Film and Cultural Studies, University of
Technology, Sydney
George Gittoes, prominent Australian artist, photographer and
filmmaker
Yasmine Gooneratne, Professor in English and Foundation Director,
Postcolonial Literatures and Language Research Centre,
Macquarie University
Keith Yates, retired Technical Manager, Sydney Opera House
CREATIVE ARTS

COURSES OFFERED

The following postgraduate courses are available in Creative Writing, Graphic Design, Music, Theatre and Visual Arts:

1. Doctor of Philosophy
2. Doctor of Creative Arts
3. Master of Arts (Honours) by Research
4. Master of Creative Arts

POSTGRADUATE PROGRAMS

Creative Writing
Graphic Design
Music
Theatre
Visual Arts

CURRENT RESEARCH AREAS

The Faculty of Creative Arts has a limited number of places available each year for suitably qualified candidates to undertake postgraduate degrees in the following areas:

Creative Writing
Poetry
Prose Fiction
Script Writing

Music
Composition
Musicology and Analysis
Performance

Theatre
Performance
Production

Visual Arts and Graphic Design
Studio Based Work
Theory

The Faculty also conducts interdisciplinary research relating to the above areas.

SCHEDULE OF PROGRAMS

POSTGRADUATE SUBJECT

leading to the Doctor of Philosophy

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POSTGRADUATE SUBJECT

leading to the Doctor of Creative Arts

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POSTGRADUATE PROGRAM IN CREATIVE WRITING

leading to the Master of Creative Arts

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For further details, see Course Requirements below.
### POSTGRADUATE PROGRAM IN MUSIC PERFORMANCE

leading to the Master of Creative Arts

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For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN MUSIC COMPOSITION

leading to the Master of Creative Arts

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For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN THEATRE

leading to the Master of Creative Arts

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For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN VISUAL ARTS AND GRAPHIC DESIGN

leading to the Master of Creative Arts

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For further details, see Course Requirements below.

### OTHER SUBJECTS

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### COURSE REQUIREMENTS

1. **DOCTOR OF PHILOSOPHY**

The Doctor of Philosophy (PhD) is based on submission of a thesis in a scholarly field or a combination of scholarly thesis and creative work presentation.

**Length of Course**

Minimum of 2 to 3 years full-time or 4 to 6 years part-time.

**Requirements for Admission**

Applicants for the PhD should have a relevant first degree with Honours Class II, Division 1, or higher, or possess equivalent qualifications. For applicants wishing to submit by a combination of thesis and creative work the applicant needs to demonstrate that both their academic and artistic background equates with the above minimum standard. In certain circumstances students may be required to commence their enrolment in the MA(Hons) and seek transfer to the PhD when and if they achieve a suitable standard.

Candidates for the PhD enrol in CREA940 Doctoral Thesis Creative Arts.
2. DOCTOR OF CREATIVE ARTS

The Doctor of Creative Arts (DCA) is based on presentation of creative work and supported by written documentation of the work.

Length of Course
Minimum of 2 to 3 years full-time or 4 to 6 years part-time.

Requirements for Admission
Applicants for the DCA should hold an appropriate Bachelor degree with Honours Class II, Division 1, or higher (or its equivalent) and be able to demonstrate evidence of high artistic attainment. Examples of high artistic attainment include publication or professional dissemination of work; grants, fellowships and prizes; critical acclaim; a track record of sustained high level professional activity; and various indicators relevant to the specific discipline.

As a guide, students completing the MCA will need to achieve at or near a High Distinction average to be considered for entry to the DCA. Likewise, students who have completed coursework masters degrees at other universities should be aware that such qualifications may not be regarded as adequate preparation for immediate entry to the DCA program.

In certain circumstances students may be required to commence their enrolment in the MA(Hons) and seek transfer to the DCA when and if they achieve a suitable standard.

Outstanding arts practitioners without the required formal qualifications may be allowed to enrol in the DCA provided they can demonstrate a sustained period of artistic activity at the highest level. It is important that applicants submit adequate material to demonstrate the quality and standing of their work.

Candidates for the DCA enrol in CREA930 Doctoral Presentation Creative Arts.

3. MASTER OF ARTS (HONOURS)

The Honours Master of Arts is a research degree that prepares students for entry to a doctoral program. Research areas include creative writing, graphic design, music, theatre and visual arts disciplines as previously listed. Students complete a thesis in a scholarly field or submit through a combination of scholarly thesis and creative work presentation.

Length of Course
Minimum of 1 to 2 years full-time or 2 to 4 years part-time.

Requirements for Admission
Applicants for the MA(Hons) should have an Honours Bachelor degree in an appropriate discipline at Class II, Division 1 or higher, or its equivalent.

Candidates for the MA(Hons) enrol in CREA920 Masters Thesis Creative Arts.

Students without appropriate qualifications may be admitted to the program by initially undertaking CREA921 Preliminary Topics in Creative Arts.

4. MASTER OF CREATIVE ARTS

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

Assessment for the major presentation will be by one external and one internal assessor.

Each student is allocated a supervisor who is responsible for the overall program and supervision of the student's work, and for ensuring that the administration of work is effective and sensitive to the student's needs. The supervisor works with the student and advises on:
1. development of practical work and its documentation;
2. preparation of creative work;
3. research and writing relevant to the student's work; and
4. writing of essays, set exercises, and other tasks where appropriate.

Students and supervisors should establish a schedule of meetings.

To be eligible for the award of MCA students must submit all work on, or before, agreed dates unless permission for late submission has been obtained from the supervisor.

It may be possible for individuals with appropriate expertise to undertake studies which involve more than one discipline area. Interested applicants should contact the Associate Dean (Research and Postgraduate).

Length of Course
Minimum of 1 year full-time or 1.5 to 2 years part-time.

Requirements for Admission
Applicants for admission to the MCA program should hold a first degree in an appropriate area. Students without adequate formal qualifications may be required to complete up to 48 credit points additional study incorporating relevant subjects; 48 credit points is the maximum number that can be completed in an academic year. Applicants should have professional experience in their chosen area of study.

SUBJECT DESCRIPTIONS

CREA920 Masters Thesis Creative Arts
Double 48 cp per year
Assessment: by two external assessors.
Submission will be in the form of:
- scholarly thesis (100%); or
- scholarly thesis (50%) combined with creative work (50%).

As a guide, submission by thesis only will be in the range of 40,000 to 50,000 words with an equivalent workload where submission is by thesis and creative work. Examples of creative work submission include folio of compositions or writing, exhibition of artwork and musical or dramatic performances. As a guide, the submission of creative work would normally not constitute less than the expectations in the subjects MUS913, MUS914, THEA913, VIS913 or WRIT913 as
Through an extensive practical investigation of the Elements and Assessment: by two internal assessors. Students will be submit one the Doctor of Creative Arts.

analyse, all aspects of applied Aesthetic Theory. To enhance students

practical project.

dramatic performances. As a guide, the scale of the submission of

the student will utilise acquired knowledge to

Major illustrated research paper 5,000 words; one major practical project.

50% combined with creative work (50%).

Aesthetic Theory, and evaluate the appropriateness of different

artistic endeavour, as well as highlight associated technical and commercial product development, particular attention will be placed on the specific application of line, shape, space and surface quality.

Crea951 Aesthetics: Sound Application

Autumn/Spring 12 cp

Assessment: by two internal assessors. Students will be submit one major research paper 5,000 words; one major practical project.

Through an extensive practical investigation of sound aesthetics, design and production, the student will analyse all aspects of applied Aesthetic Theory, and evaluate the appropriateness of different audiovisual genres for a variety of purposes. To enhance the students creativity in the field of audiovisual production, as well as highlight applications for commercial utilisation, attention will be given to a range of media, artforms, situations and locales in which complex sound design is used.

MUS910 Minor Thesis Music

Autumn/Spring/Double 12 cp

Assessment: by two internal assessors. Students will submit a 10,000 word analytical dissertation on a topic approved by the supervisor. The thesis must be submitted by the last teaching week of session.

Students may be required to attend the subjects MUS301 Musical Analysis and Practice 3 and MUS312 Australian Music. This requirement may be waived, with the approval of the supervisor, where the student can prove the prior completion of equivalent work. Students may be required to attend only and not to complete assessment for MUS301 and MUS312.

Two suitably presented and bound copies of the thesis will be retained by the Faculty.

MUS912 Studies in Performance Technique

Autumn/Spring/Double 12 cp

Assessment: by two internal assessors and will normally be by presentation of a two hour lecture-recital or equivalent work on a topic related to technique and performance in the student's area of specialisation.

Students will attend and participate in a performance seminar and will participate, where requested, in Faculty ensembles.

MUS913 Major Presentation-Music Performance

Double 24 cp

Pre or Co-requisite: MUS910 and MUS912.

Assessment: by one internal and one external assessor.

A 50 minute recital of major works from the instrumental or vocal repertoire, given in Spring session of a student's full-time enrolment (or equivalent), is required. The recital program should be approved well in advance by the supervisor and cover a stylistic gamut of music.

A presentation of a concerto or equivalent work of approximately 20-30 minutes duration is also required. The work (which may, in the case of longer works, be a movement or movements of a concerto) should be chosen in consultation with the supervisor and may be presented with piano reduction as accompaniment.

Detailed annotations for both the concerto and recital presentation, approximately 2,000 words, should be provided.

Under normal circumstances students will receive 28 one hour individual lessons with an approved teacher and are also required to attend Performance and Ensemble classes as planned with the supervisor and subject coordinator.

Students should submit a detailed outline of their proposed work for the major presentation to the supervisor by the fourth week of enrolment. It may be possible for individuals with appropriate expertise to undertake studies which involve more than one discipline area. Interested students should contact the Co-ordinator of the Research and Postgraduate Program.

MUS914 Major Presentation-Music Composition

Double 24 cp

Pre or Co-requisite: MUS910 and MUS915.

Assessment: by one internal and one external assessor and will be based on submission of the following:

- a portfolio of at least four compositions, including one major work for a large ensemble;
- sketches, tapes and other supporting material;
- analytical commentaries on the works submitted — approximately 2,000 words.

The submission is due at the end of the teaching period of the year of enrolment.
Students should submit a proposal outlining the work to be completed in the major presentation by the fourth week of enrolment. It may be possible for individuals with appropriate expertise to undertake studies which involve more than one discipline area. Interested students should contact the Co-ordinator of the (Research and Postgraduate Program).

MUS915 Studies in Composition Technique
Autumn/Spring/Double 12 cp
Assessment: by two internal assessors on the completion of a project in one of the following areas (following consultation with the supervisor):
- orchestration;
- studies in counterpoint or imitative compositional style;
- preparation of a new performance edition;
- studies in computer music;
- multi-media collaborative project.
Students will participate in composition seminars and workshops, and in Faculty ensembles as requested.

THEA910 Theatre Analysis
Autumn/Spring/Double 12 cp
Assessment: by two internal assessors and will consist of two 5,000 word essays.
This subject will be presented through tutorials dealing with research into a particular aspect of theatre production or technology, according to the needs and specialisation of the student. Examples of research might include such topics as Theatre in Education in NSW or Types and Styles of Professional Productions in Sydney over the past decade. The student will be expected to apply appropriate procedures and methodology.
All work must be submitted by the last teaching week of session.

THEA911 Advanced Techniques in Theatre
Autumn/Spring/Double 12 cp
Assessment: by two internal assessors and will consist of two 5,000 word essays.
In tutorials, students will examine the latest techniques in their chosen field in theatre. This will be a practical subject with the emphasis upon developing and refining techniques. All work must be submitted by the last teaching week of session.

THEA913 Major Presentation-Theatre
Double 24 cp
Pre or Co-requisite: THEA910 and THEA911.
Assessment: by one internal and one external assessor.
Students will be assessed on their involvement as a major participant in a full length production or equivalent work. The student's role may encompass aspects of theatre including directing, acting, stage costume design and lighting. For a full-time student the work should be comparable to a time commitment of at least four hours per day for the period of enrolment.
A written paper of approximately 2,000 words explaining the nature of the student's practical achievement in the major presentation should accompany the submission.
Students should submit a detailed outline of their proposed work for the major presentation to the supervisor by the fourth week of enrolment. It may be possible for individuals with appropriate expertise to undertake studies which involve more than one discipline area. Interested students should contact the Co-ordinator of the (Research and Postgraduate Program).

WRIT911 Literary Composition
Autumn/Spring/Double 12 cp
Pre or Co-requisite: WRIT910 and WRIT911.
Assessment: by the subject coordinator and will be based on up to 10,000 words of experimental writing, including written self-evaluation of the effectiveness of the techniques used.
In fortnightly seminars students will be required to develop and refine their awareness of the techniques and processes of literary composition, and to demonstrate their control of these techniques and processes in their own written work. Students will be required to outline the effects they are seeking in their writing, and to describe and evaluate the techniques they are using to achieve those effects. Students will hand in three pieces of work-in-progress for workshop during the year.

WRIT913 Major Presentation-Creative Writing
Double 24 cp
Pre or Co-requisite: WRIT910 and WRIT911.
Assessment: by one internal and one external assessor.
Students will present either:
- a work of short prose fiction with a minimum of 30,000 words; or
- poetry with a minimum of 60 pages; or
- a full length theatre/film/television script.
In addition, students are required to submit an annotation of approximately 2,000 words explaining the nature of the practical achievement in the major presentation, including ideas underpinning the work, theoretical considerations, debts to other writers, sources of ideas, methods of working, and problems encountered and methods of resolution. It is suggested that a writer's diary or notebook be kept to assist in the preparation of the annotation.
Students should submit a detailed outline of their proposed work for the major presentation to the supervisor by the fourth week of enrolment. It may be possible for individuals with appropriate expertise to undertake studies which involve more than one discipline area. Interested students should contact the Co-ordinator of the Research and Postgraduate Program.
COURSES OFFERED
The following postgraduate courses are available in Journalism:

1. Doctor of Philosophy
2. Master of Arts (Honours) (Journalism) by Research
3. Master of Journalism (Honours) by Coursework
4. Master of Journalism
5. Graduate Certificate in Multicultural Journalism

POSTGRADUATE PROGRAM
Journalism

CURRENT RESEARCH AREAS
Journalism practice and history
Australian media structure
Journalism and multi-media applications
On-line journalism

DISTANCE EDUCATION COURSES
Distance education courses are offered by the Graduate School of Journalism through the Office of Postgraduate and Continuing Education. For information on these distance education courses, please contact the OPCE consortium at the University of Wollongong (Email: postgrad@uow.edu.au) for a prospectus. Course details can be viewed in the Journalism Web site at: http://www.uow.edu.au/crearts/journalism/index.html.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN JOURNALISM

leading to the Graduate Certificate in Multicultural Journalism, Master of Journalism or Master of Journalism (Honours) by coursework.

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<td>JOUR902</td>
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<td>JOUR936</td>
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<td>JOUR942*</td>
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<td>JOUR948*</td>
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Not all subjects are offered in each academic year.
For further details, see Course Requirements below.

POSTGRADUATE SUBJECT

leading to the Doctor of Philosophy and Master of Arts (Honours) (Journalism) by Research.

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* Not on offer in 1998
1. **DOCTOR OF PHILOSOPHY**

The Doctor of Philosophy (PhD) is based on submission of a scholarly thesis of a maximum of 100,000 words.

**Length of Course**
This degree is normally completed in three years of full-time research or the part-time equivalent.

**Requirements for Admission**
Applicants should have a relevant first degree with Honours Class II, Division 1, or higher, or a Masters degree either in journalism or in a related area, or possess equivalent qualifications. Graduates in other disciplines at Masters level may also be considered if they can demonstrate capability and interest in specialist areas relevant to journalism theory and practice. Admission to the degree shall be subject to the approval of the Head of School.

Candidates for this degree enrol in JOUR999.

2. **MASTER OF ARTS (HONOURS) (JOURNALISM) BY RESEARCH**

The Master of Arts (Honours) is a research degree that prepares students for entry to a doctoral program. The course is based on submission of a scholarly thesis of approximately 50,000 words.

**Length of Course**
Minimum time to complete the degree is one year full-time or two years part-time.

**Requirements for Admission**
Applicants should have a relevant first degree with Honours Class II, Division 1, or higher, or a Masters degree either in journalism or in a related area, or possess equivalent qualifications.

Candidates for this degree enrol in JOUR999.

3. **MASTER OF JOURNALISM (HONOURS) BY COURSEWORK**

Applicants for the Master of Journalism (Honours) (MJ(Hons)) are required to complete the Master of Journalism (MJ) prior to entry to this honours degree. In addition to the 48 credit points for the MJ, the MJ (Hons) will require a further 24 credit points of advanced research work. This will normally comprise a submission of a major thesis of approximately 25,000 words.

**Length of Course**
Minimum time to complete the degree is eighteen months full-time or part-time equivalent.

**Requirements for Admission**
Please refer to the entry requirements for the Master of Journalism.

Candidates for this degree enrol in JOUR992.

4. **MASTER OF JOURNALISM**

1. The purposes of the Master of Journalism are:
   (a) to provide a sound education in vocational journalism;
   (b) to allow graduates in journalism to proceed to higher studies in that discipline;
   (c) to provide the same opportunity for those whose professional experience is judged as an equivalent in attainment to a pass degree;
   (d) to assist students in categories (b) and (c) to prepare for, and adjust to, structural and technological change in journalism;
   (e) to promote a critical and scholarly evaluation of journalism through teaching and research.

2. Students shall be admitted under the rules covering the Master of Arts degree, with the additional provisions below:
   (a) admission to candidates shall be on the recommendation of the Head of School, who may prescribe an advanced standing;
   (b) pass students are required to complete successfully a program of studies approved by the Head of School which must total 48 credit points, except where advanced standing is given for professional experience or completion of equivalent subjects in a comparable course. All students must complete the core subjects, except where advanced standing is awarded or exemptions given, and such other compulsory subjects as the Head of School may prescribe. It is compulsory, also, for all students who are not overseas students to complete JOUR955 Journalism and the Law;
   (c) with the approval of the Head of School, and the relevant Faculties and Departments, students may also take a maximum of three subjects from other postgraduate and under-graduate courses where it can be shown that this will assist in the development of specialist skills in journalism. Recommended subjects for specialist sequences are set out in the Graduate School of Journalism Handbook;
   (d) students may also complete a major project approved by the Head of School, or an internship in a professional media organisation approved by the Head of School, or such field work as the Head of School may prescribe;
   (e) Honours students are required to complete successfully a program of studies approved by the Head of School which must total 72 credit points, except where advanced standing is given. As well as fulfilling the requirements of the pass degree, Honours students must undertake a major presentation or other advanced studies approved by the Head of School to the total value of 24 points;
   (f) students shall discuss their proposed program with an academic adviser from the School of Journalism prior to enrolment;
   (g) the Master of Journalism shall be available both as a full-time and part-time program. Full-time pass students are expected to complete the degree in two academic sessions, and part-time pass students in four sessions. Full-time Honours students are expected to complete the degree in three academic sessions. Part-time Honours students are expected to complete the degree in six sessions.
   (h) Overseas students with no previous experience in academic presentation in English have the option of taking as part of their approved course the subject ELS151 Introduction to English for Academic Purposes offered by Modern Languages in the Faculty of Arts. Overseas students with limitations in English expression may also choose, on the advice of the Head of School, to take other ELS subjects as part of their course.
5. GRADUATE CERTIFICATE IN MULTICULTURAL JOURNALISM

1. The purposes of the Graduate Certificate in Multicultural Journalism are:
   (a) to provide a professional qualification for journalists working in the multicultural news media, both print and electronic;
   (b) to educate members of the multicultural communities wanting to contribute to multicultural news services in news writing, method, practice and law;
   (c) to provide a professional context in standard journalistic practice, ethics, law and organisation for specialist journalists working in multicultural print and electronic publications;
   (d) to provide a grounding in journalism for students who are not professional journalists but want to work in, or contribute to, multicultural print and electronic news publication.

2. Candidates for the course should normally hold a degree or be able to show evidence of at least two years of relevant work experience. In special circumstances, representatives of multicultural communities wanting to contribute to multicultural news media services may be admitted as candidates on the basis of other academic qualifications or relevant professional experience.

3. Students are required to successfully complete a program of studies which must total 24 credit points to include:
   JOUR901 News Writing Autumn/Spring 6 cp
   JOUR902 Journalistic Method and Practice Autumn 6 cp
   JOUR903 Journalism, Ethics and Standards Autumn 6 cp
   JOUR904 Journalism, History and Structure Autumn 6 cp
   JOUR905 Specialist Journalism 1 Spring/Summer 6 cp
   JOUR906 Specialist Journalism 2 Autumn/Summer 6 cp
   JOUR907 Specialist Journalism 3 Spring/Summer 6 cp
   JOUR908 Specialist Journalism 4 Autumn/Summer 6 cp
   JOUR909 Specialist Journalism 5 Spring/Summer 6 cp
   JOUR910 Specialist Journalism 6 Autumn/Summer 6 cp
   JOUR911 Specialist Journalism 7 Spring/Summer 6 cp
   JOUR912 Specialist Journalism 8 Autumn/Summer 6 cp
   JOUR913 Specialist Journalism 9 Spring/Summer 6 cp
   JOUR914 Specialist Journalism 10 Autumn/Summer 6 cp

   and, except where advanced standing has been given, one of the following three subjects:
   JOUR909 Specialist Journalism 2 Autumn 6 cp
   JOUR910 Specialist Journalism 3 Autumn 6 cp
   JOUR911 Specialist Journalism 4 Autumn 6 cp
   JOUR912 Specialist Journalism 5 Autumn 6 cp
   JOUR913 Specialist Journalism 6 Autumn 6 cp
   JOUR914 Specialist Journalism 7 Autumn 6 cp
   JOUR915 Specialist Journalism 8 Autumn 6 cp
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   JOUR999 Specialist Journalism 92 Autumn 6 cp

   Students shall discuss their proposed program with an academic adviser from the School of Journalism prior to enrolment.

4. Advanced standing will be given only on the basis of documented professional experience in either print, radio or television journalism.

5. Full fee paying students may enrol in this course part-time or full-time by distance education. Part-time students will normally complete the course in 3 sessions; and full-time in 1 session or at any study rate. However, Higher Education Contribution Scheme (HECS) students must enrol according to the subject schedule offered at SBS Radio in Sydney or Melbourne.

SUBJECT DESCRIPTIONS

JOUR901 News Writing Autumn/Spring 6 cp
Contact hrs: 3 hrs newsroom work a week plus practical work.
Assessment: written assignments and practical work.
This subject develops basic skills in straight news reporting to extended feature writing for newspapers and magazines. Attention will be given to subjective aspects of news and feature writing, including the use of comment and opinion; colour stories; the contribution of 'new journalism' to writing human interest stories; interviewing and information gathering techniques; and the application of conventional news values.

JOUR902 Journalistic Method and Practice Autumn 6 cp
Contact hrs: 3 hrs per week plus fieldwork.
Assessment: written assignments, practical exercises and an essay.
This subject considers the basic attributes of news, the nature of news construction, theories of news making and the structure of news narratives. It takes students through the process of initiating to the completion of a news assignment. Practical areas of discussion are: the structure and conventions of a news round, use of recording devices, interview techniques, working with photographers and camera teams, packaging of news copy, follow-ups and news management.

JOUR903 Journalism, Ethics and Standards Autumn 6 cp
Contact hrs: 3 hrs lectures and practical work.
Assessment: written assignments, one hour examination in class.
This subject examines the ethical framework which governs the work of journalists. It considers the nature, efficacy and administration of ethical codes relevant to journalism, particularly the Media Entertainment and Arts Alliance (MEAA) Code of Ethics and the Australian Press Council's Statement of Principles. Other aspects of professional conduct and professional standards considered include breach of privacy; confidentiality; protection of sources; standards of accuracy, objectivity and subjectivity in journalism.

JOUR904 Journalism, History and Structure Autumn 6 cp
Contact hrs: 3 hrs lectures.
Assessment: written essays, 1 hour examination in class.
This subject provides an historical context for studying the contemporary structure of the Australian media and the professional milieu in which Australian journalists work. Principal subjects covered include the origins of British and American journalism; the development of the press in Colonial Australia; the emergence of contemporary news organisations; the growth of electronic media organisations in Australia; the transformation of Australian media ownership in the 1980s and the technological development of news organisations through the 1990s.

JOUR905 Specialist Journalism 1 Spring/Summer 6 cp
Contact hrs: 3 hrs lectures plus project work.
Assessment: practical assignments and project.
This subject is designed to complement and amplify preliminary courses which cover broader aspects of news gathering and presentation. Specialist areas dealt with include environment; science and technology; public affairs; arts; lifestyle and leisure; economics and business; and sports. Selected topics will cover conceptual approaches and skills in print and electronic journalism. NOTE: Usually, only one specialist area will be dealt with in this subject. A further option for study in specialist journalism will be available in JOUR906 Specialist Journalism 2.

JOUR906 Specialist Journalism 2 Autumn/Summer 6 cp
Contact hrs: 3 hrs lectures plus project work.
Assessment: practical assignments and project.
This subject provides an additional option of specialist study in a major area of contemporary journalism. Specialist areas are set out under JOUR905 Specialist Journalism 1 above.

JOUR931 Broadcasting Journalism Spring 6 cp
Contact hrs: 3 hrs lectures, plus field and studio work.
Assessment: assignments and studio work.
This subject provides advanced skills in writing, editing, producing and presenting radio news and current affairs programs. The course has a strong practical component and will involve use of a radio studio.

JOUR932 Television Journalism Autumn 6 cp
Contact hrs: 3 hrs lectures, plus field and studio work.
Assessment: assignments and assessment of field work.
This subject provides advanced skills in writing, editing, producing and presenting television news and current affairs programs. A primary
emphasis will be placed on techniques for gathering television news or
documentary material in the field.

JOUR933 On-Line and Research Journalism
Autumn/Spring 6 cp
Contact hrs: 3 hrs lectures plus practical work.
Assessment: written assignments and field assignments.
This subject is designed to develop a range of research and
investigative skills for practical journalism. It will include the use of
data bases, information retrieval, statistical analysis packages, library
and archive work, registry offices and other sources of public
information. The use of survey material in journalism will be studied,
particularly the presentation of this data in a news format. The
organisation of news investigation teams, the techniques that they use,
and what they produce will be analysed.

JOUR934 Print Production and Publication
Autumn 6 cp
Contact hrs: 3 hrs lectures and workshop production.
Assessment: written assignments and workshop assessment.
This subject focuses on the production of inhouse newsletters and
magazines by desktop publishing computers. Topics include copy
preparation and editing, headline writing, principles of typographic,
news layout, news illustration, production planning and desktop
publishing applications.

JOUR936 International Journalism
Autumn/Spring 6 cp
Contact hrs: 3 hrs lectures and seminars.
Assessment: assignments and one hour examination in class.
This seminar-based subject focuses on international news flow in the
context of the New World Information Order debates in the early 70s;
news flow in the context of Internet communication; culture, values
and ideology in international news production (discussions derived
mainly from Australian reporting of Asia); media systems in selected
Asia-Pacific countries; and renewed interest in community
development oriented journalism.

JOUR942 Current Affairs Journalism*
Autumn/Spring 6 cp
Contact hrs: 3 hrs lecture/field work.
Assessment: assignments and fieldwork.
This subject provides practical instruction in preparation of current
affairs programs in radio, television and multi-media applications.
The subject will give a broad introduction to current affairs production
in each of the three media areas. Field and practical work will provide
opportunities for specialisation in one of the three media areas.

JOUR943 Directed Readings in Journalism
Autumn/Spring/Summer 6 cp
Contact hrs: 1 hr tutorial, plus directed reading.
Assessment: major written evaluation of about 15,000 words of
the selected reading program.
This subject enables students to extend their knowledge of the history,
theory and practice of journalism by directed reading courses in
selected topics. These readings are designed to complement and
develop topics studied in earlier subjects. Topics available include:
structure of the Australian news media; news media management;
current affairs radio and television; principles of layout and design; the
role of the editor; studies of individual journalists and their work.

JOUR945 Advanced Journalism Project
Autumn/Spring/Summer 6 cp
Contact hrs: one hour tutorial, plus directed research.
Assessment: written evaluations of progress; final research report
which may include electronic media and print production material.
This subject provides a shorter alternative project for final session
students not wanting to undertake the major project, or electing to do
additional course work, or wanting to develop skills acquired in
previous vocational subjects. Project areas available include:
historical issues in Australian journalism; defamation law; structure of
Australian news gathering; electronic news gathering; electronic print
production.

JOUR948 News Design*
Spring/Autumn 6 cp
Contact hrs: 3 hrs lecture/fieldwork.
Assessment: assignments and publications.
This subject provides practical instruction in imaging, graphics and
design applicable to print news publications. Students are instructed in
the latest digital software for producing print news materials.

JOUR949 Multicultural Journalism
Spring/Autumn 6 cp
Contact hrs: 3 hrs lecture/fieldwork per week.
Assessment: assignments and publications.
This course provides an historical, cultural and social background for
students wanting to work in Australia's growing multicultural media. It
will give practical instruction in multicultural print, electronic and
multi-media news applications. Particular emphasis is placed on
differences between multicultural media and traditional media.

JOUR954 Journalism and Multi-media*
Autumn/Spring 6 cp
Contact hrs: 3 hrs lectures, plus practical and laboratory work.
This subject prepares journalists for their profession of
rapidly-developing interactive multi-media technology. It emphasises
both theoretical and practical aspects of multi-media relevant to print
and electronic media journalism. Particular attention is given to
prospective changes generated by inter-active multi-media to news
sharing, news delivery, and news presentation.

JOUR955 Journalism and the Law
Autumn 6 cp
Contact hrs: 3 hrs lecture per week.
Assessment: long essay and problem assignments.
This subject describes and analyses the legal framework within which
Australian journalists work. It considers in detail the principal
elements of media law which influence the conduct of news gathering
and presentation. Subjects covered include the constitutional basis of
press freedoms, the Australian judicial system, defamation, contempt,
privilege, intellectual property, obscenity, blasphemy, official secrets
legislation, restrictions on publications and broadcasting, Freedom of
Information legislation.

JOUR956 On-Line Journalism
Autumn/Spring 6 cp
Contact hrs: 3 hrs instruction plus project work.
Assessment: assignment and project work.
This subject introduces students to news production and presentation
on Internet. Practical projects focus on online publishing. Topics
include on-line information networking, editorial framing and
composition for on-line presentation, typography and graphic design
for on-line publications, and computer-assisted reporting techniques.
The subject provides a basis for the critical examination of the impact
of online technology on contemporary print-based media.

JOUR961 Community Journalism
Autumn/Summer 6 cp
Contact hrs: 3 hrs lectures plus project work.
Assessment: assignments and project work.
This subject examines the role of a journalist as a social change agent
in the community. It aims to develop in students a critical appreciation
of the role of a journalist as a social change agent in the community.
It looks at ways in which communities can acquire a voice in the media,
through the help of community media and non-profit organisations.
This subject allows students to take an internship in a news
organisation, or attend a workshop in a community media organisation.

JOUR991 Major Journalism Project
Autumn/Spring/Summer 12 cp
Assessment: two interim reports and fieldwork report.
This subject is designed to give students the opportunity to undertake
either a major research project or a substantial supervised practical
work project. It allows students to take an internship in a news
organisation, or attend a workshop in a community media organisation.
This subject allows students to undertake a major research project or
substantial supervised practical work. It allows students to take an
internship in a news organisation, or attend a workshop in a community
media organisation.
JOUR992 Major Journalism Presentation
Double/Autumn/Spring/Summer 24 cp
Assessment: progress reports and final thesis.
The topic for a major presentation by honours students must be discussed and approved by the Head of School or the Head's nominee. The length of the presentation should be about 25,000 words, or its equivalent, and the candidate may submit sound, video and multimedia material. In addition to excellence in Journalism, the presentation will need to demonstrate the candidate's ability to research individually, to construct a scholarly argument, and to evaluate professional practice in national and international contexts.

JOUR999 Thesis
Double/Autumn/Spring 48 cp
Assessment: by two external assessors.
The Doctor of Philosophy (PhD) is based on submission of a scholarly thesis of a maximum of 100,000 words. The submission for the Master of Arts (Honours) is a thesis of approximately 60,000 words or equivalent.
FACULTY OF EDUCATION

RESEARCH COURSES AVAILABLE

The Faculty offers Doctor of Philosophy; Doctor of Education; Honours Master of Education and Honours Master of Arts by research.

COURSEWORK PROGRAMS

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The University attempts to ensure that information contained in this publication is up to date at the time of printing but sections may be amended without notice by the University in response to changing circumstances for any other reasons. Classes in any subject may be cancelled if enrolments do not reach the levels approved for the effective presentation of the topic area. Students should check with the University at the time of application/enrolment whether any later information is available in respect of any material contained in this Calendar.

The University reserves the right to change the content or the method of presentation of any unit of study, or to withdraw any unit or course of study which it offers, or impose limitations on enrolment in any unit or course as a result of resource limitations or for any other reason.
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Senior Research Fellow
Penelope Murphy, BA (Hons), MSc London, PhD, UNE

FACULTY VISITING COMMITTEE

Chair of the Committee - Dr Greg Ramsey
Mr Steven Buckley
Mr Ray Cavenagh
Mr Les Gregory
Mrs Rae Mitchell
Mr Terry White
Professor Shirley Grundy
Dr Terry Burke
Mr Alan Ruby

Administrative Officers
Joseph LoBianco, BEc
Penelope Murphy, BA (Hons), MSc

Honorary Fellows
Professor Shirley Grundy
Mr Alan Ruby

Senior Research Fellow
Penelope Murphy, BA (Hons), MSc London, PhD, UNE

FACULTY VISITING COMMITTEE
COURSES OFFERED

The following postgraduate degrees and diplomas are available:

1. Doctor of Philosophy
2. Doctor of Education
3. Honours Master of Education
4. Honours Master of Arts
5. Master of Education
6. Master of Teaching Studies
7. Graduate Certificate in Adult Career Development
8. Graduate Certificate in Computer-Based Learning
9. Graduate Certificate in Early Childhood Education
10. Graduate Certificate in Curriculum Leadership
11. Graduate Certificate in Environmental Education
12. Graduate Certificate in Gifted Education
13. Graduate Certificate in Higher Education
14. Graduate Certificate in Literacy
15. Graduate Certificate in Special Education
16. Graduate Certificate in TESOL
17. Graduate Diploma in Adult Education and Training
18. Graduate Diploma in Education
19. Graduate Diploma in TESOL

The Graduate Schedule of subjects offered by the Graduate School of Education is structured to offer a series of articulated courses progressing from Graduate Certificate to Doctoral level. Candidates without the teacher training background of many of our traditional graduate students can enter postgraduate study in the School at either Graduate Certificate or Graduate Diploma level, and then proceed through the higher degree structure in their area of interest. A range of Graduate Certificates in the areas of Literacy, TESOL, Special Education, Gifted Education, Adult Career Development, Computer-Based Learning and Environmental Education have been introduced to provide access to graduate study in educational settings to holders of degrees in other disciplines and working in non-school areas. In addition the Graduate School offers a Graduate Certificate in Literacy or TESOL and a Master of Education program in Literacy or TESOL as full-fee courses through the Wollongong On-Line Consortium (WOL).

The Graduate Diploma in Education is a professional pre-service course in education for graduates of this or another university who seek teacher qualifications. The main aim of the course is to provide a professional certification course of pre-service education for intending primary and secondary school teachers. Current (1997) GDipEd students may proceed to the Master of Teaching Studies which will provide beginning teachers with the opportunity to improve classroom skills through an extended school experience as well as deepening their understanding of teaching, learning and educational issues.

Study in all areas other than teacher training (the GDipEd) takes place in a framework provided by the Graduate School of Education. The aim of the Graduate School of Education is to co-ordinate research and study in a way which provides an orderly and coherent exposure to critical issues in contemporary educational theory and practice, and also provides an avenue for professional development for committed educators. Postgraduate work is grouped into Programs which provide specialisations in areas in which staff have particular expertise. In 1998 it is expected that the major Programs will be as follows:

Programs:
- Adult Education and Training
- Early Childhood Education
- Educational Leadership
- Information Technology in Education and Training
- Literacy
- Physical and Health Education
- Special Education (including Gifted Education)
- Teaching English to Speakers of Other Languages (TESOL)

In subsequent years there may be further changes to the Programs to reflect changes in both staffing resources and student interests. All students should obtain a copy of the relevant Graduate School of Education Handbook and timetable to check subject and course availability before enrolling. Any student who is unsure of their course progression as new Programs are introduced should consult the Teaching Program Co-ordinator for their specialisation regarding their enrolment in 1998. Students who maintain the University's normal progression patterns (for details see below) can be assured of completing their degree on terms no less favourable than at the time of their enrolment.

CURRENT RESEARCH AREAS

Curriculum change and professional development in the Pacific
Curriculum development and evaluation
Education policy theory
Educational information systems
Educational policy and planning in Australia, the Asia-Pacific region and the OECD countries
Equity in education
Information technology in education and training
Interactive multimedia, design and evaluation
Language and education
Learning
Literacy development in education including functional language studies
Literacy education and teacher development
Performance technology and adult learning
Policies for health and physical education
Professional development of teachers
Members of the Graduate School of Education undertake research either individually or under the auspices of one of the three research groups in the Faculty funded by the University’s research development program. Research students are encouraged to discuss their work with staff involved in similar research, and to participate in activities organised by the research groups.

These are:

• the Centre for Performance Technology and Educational Policy Research (Co-ordinators: Assoc Professor Barry Harper; Professor Carla Fasano): The Centre focuses upon the design and development of motivating learning environments for effective performance employing interactive multimedia and networked-based learning. It has wide ranging interests in the related policy and implementation issues within education and training contexts, nationally and internationally.

• the Research Group, Social Literacy (Co-ordinator: Dr Bill Winser) The Social Literacy Research Group consists of members from the Departments of Education, English and Modern Languages. It is concerned with the study of how meaning is constructed at home, in schools, including classroom and curriculum studies, and in other social institutions. Its research areas include language and learning across the curriculum; literacy, and first and second language education, in school and other social settings; studies in semiotics and discourse; computer based learning; and studies concerning access to educational and social opportunities for specific cultural groups.

• the Research Group, Curriculum Research, (Co-ordinator: Dr Christine Fox), focuses on enhancing research into Key Learning Areas of School Education, and across-curriculum areas in early childhood, school and adult education. Team members specialise in researching intercultural and international aspects of curriculum policy, programs and evaluation, with particular emphasis on the relationship between curriculum innovation and professional development.

COURSE REQUIREMENTS

A. HIGHER DEGREES

The Master of Education, Master of Teaching Studies, Master of Education (Honours), Master of Arts Honours), Doctor of Philosophy and Doctor of Education do not lead to teaching qualifications, but are higher degrees designed for those students already qualified in Education and working in the area who wish to undertake specialised advanced study and/or research in education.

1. DOCTOR OF PHILOSOPHY

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

Candidates for this degree enrol in a major thesis, subject number EDGA905. Interested candidates should contact the Head of the Graduate School of Education to discuss their area of research and supervision. All new students enrolling in a research degree are expected to prepare and defend a research proposal early in their candidature and to become involved in Graduate School activities such as student colloquia. See subject descriptions for further information.

2. DOCTOR OF EDUCATION

The Doctorate of Education is a program to prepare professional leaders in Education. It is a doctoral level program completed by a combination of coursework and thesis, offered in 1998 in the areas of:

• Early Childhood Education
• Educational Leadership
• Information Technology in Education and Training
• Literacy
• Physical and Health Education
• Policy and Planning
• Special Education (including Gifted Education)
• Teaching English to Speakers of Other Languages (TESOL, including TEFL)

Entry Requirements for the EdD Program

Entry to this degree is available to candidates who:

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

2. Candidates must have completed a minimum of three years relevant professional experience.

Time Limits

Normally, the degree will be completed in not less than six, and not more than eight, academic sessions of full-time study. Completion of the degree in a minimum of five sessions may be permitted to those candidates granted Advanced Standing for previous graduate study.

Advanced Standing

1. No advanced standing will be granted for previous graduate study at MEd level. Candidates who have pursued study beyond a pass Master degree should discuss their request for Advanced Standing with the Head of the Graduate School of Education.

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

1. The program for the degree will require successful completion of:

(i) at least 48 credit points (six subjects) chosen from the Graduate Schedule of Subjects in the Graduate School of Education. At least four of these subjects must be chosen from one Program in line with the requirements for that Program (see 4 below).

(ii) both EDGA901 Advanced Qualitative Research Methods and EDGA902 Advanced Quantitative Research Methods must be completed prior to commencement of the thesis component of the program. If there is satisfactory evidence that one of these subjects or their equivalents has already been completed in previous study, the student will undertake another subject of his/her choice from the Graduate School of Education Schedule or other approved 900-level Graduate Schedules to complete his/her Doctoral program.

(iii) the balance of subjects (or credit points) may be chosen from anywhere in the Schedule of Subjects of the Graduate School of Education or from any 900-level Graduate Schedule in the University, provided that prior approval has been obtained from the Head of the Graduate School of Education and the Head of the relevant School or Department. Elective choices must be discussed with the Program co-ordinator.

(iv) a supervised thesis (EDGA909) on a topic in the Program chosen for specialisation, to be examined externally. This thesis will contribute to two thirds of the final assessment. All new students enrolling in a research degree are expected to prepare and defend a research proposal early in the thesis component. See subject description of EDGA909 for further information.

2. Each candidate will be required to select a program of study in consultation with the Program Co-ordinator and the Head of the Graduate School to ensure that subjects chosen do not duplicate previous graduate work.

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

4. The coursework requirements for each Program are as follows:

(1) Adult Education and Training

The coursework component of a Doctorate of Education in the Program of Adult Education and Training consists of at least four subjects chosen from the Adult Education and Training program in line with the requirements listed in "Patterns of Study". These subjects are listed below:

EDGE991 Instructional Design*
EDGE992 Psychology of Adult Learning
EDGE993 Evaluation and Assessment
EDGA994 Learning Strategies and Communication
EDGA995 Management and Organisational Context of Learning
EDGA996 Issues in Adult Education & Training
EDGA997 Introduction to Tertiary Teaching

* Compulsory subjects for students wishing to complete a major specialisation in Adult Education and Training

(2) Early Childhood Education

From 1997 the School will be offering a series of subjects which will form a specialisation in Early Childhood Education. The subjects listed below are existing subjects which may form part of the revised Program. The list will be amended as the new program is developed.

The coursework component of a Doctorate of Education in the Program of Early Childhood Education consists of:

(i) at least four subjects chosen from the Early Childhood Program in line with the requirements listed in "Patterns of Study". These subjects are listed below:

EDGE910 Early Childhood Curriculum Theory and Practice
EDGE911 Child Development
EDGE913 Music Education in Early Childhood
EDGA970 Early language and literacy development
EDGA971 Children's literature
EDGA972 Assessment and evaluation of language and literacy
EDGA937 Approaches to reading difficulties
EDGA947 Giftedness in special populations

(ii) Recommended elective subjects include:

EDGA973 Language, ideology and culture
EDGA977 Communication and learning
EDGA966 Educational leadership and management

(3) Educational Leadership

From 1997 the School will be offering a series of subjects which will form a specialisation in Educational Leadership. The subjects listed below are existing subjects which may form part of the revised Program. The list will be amended as the new program is developed.

The coursework component of a Doctorate of Education in the Program of Educational Leadership consists of:

(i) at least four subjects chosen from the Educational Leadership Program in line with the requirements listed in "Patterns of Study". These subjects are listed below:

EDGA964 Educational management and administration
EDGA966 Educational leadership and management
EDGA911 Managing curriculum change
EDGA913 Program evaluation
EDGA915 Quality learning and teaching
EDGA917 International and intercultural perspectives
EDGA990 Foundations of policy studies
EDGA951 Information systems and educational management

(4) Information Technology In Education and Training

The coursework component of a Doctorate of Education in the Program of Information Technology in Education consists of:

(i) at least four subjects chosen from the Information Technology Program in line with the requirements listed in "Patterns of Study".

These subjects are listed below:

EDGA950 Information Technology and education and training
EDGA951 Information systems and educational management
EDGA952 Designing instructional software
EDGA954 Interactive multimedia in education
EDGA955 Information Technology and cognitive processes
EDGA956 Advanced studies in interactive learning
EDGA957 Implementation and evaluation of technology-based learning
EDGA958 Instructional strategies and authoring

(ii) Recommended elective subjects include:

EDGA981 Instructional Design
EDGA992 Psychology of Adult Learning

(5) Literacy

The coursework component of a Doctorate of Education in the Literacy Program consists of:

(i) at least four subjects chosen from the Language and Literacy Program in line with the requirements listed in "Patterns of Study".

These subjects are listed below:

EDGA959 Adult Literacy
EDGA970 Early language and literacy development
EDGA971 Assessment and evaluation of language and literacy
EDGA975 Discourse analysis
EDGA976 Text and Context
EDGA977 Communication and learning
EDGA978 Literacy practices for diverse needs
EDGA987 Children's literature
EDGR911 Teaching Reading
EDGR912 Teaching Writing

(ii) Recommended elective subjects include:

EDGA937 Approaches to reading difficulties
EDGA966 Educational leadership and management

(6) Physical and Health Education

The coursework component of a Doctorate of Education in the Physical and Health Education Program consists of:

(i) at least four subjects chosen from the Physical and Health Education Program in line with the requirements listed in "Patterns of Study".

These subjects are listed below:

EDGA920 Curriculum problems and issues in physical and health education
EDGA921 Studies in the scientific bases of health education and health promotion
EDGA922 Theoretical and practical bases of coaching
EDGA923 Sport, culture and education
EDGA924 Adolescent health status and behaviour
EDGA926 Theory and practice of outdoor education and recreation.
EDGA927 Facilitation techniques in outdoor education
EDGA928 Issues in coach education and administration

(7) Special Education

The coursework component of a Doctorate of Education in the Program of Special Education consists of:

(i) at least four subjects chosen from the Special Education Program in line with the requirements listed in "Patterns of Study".

These subjects are listed below:

EDGA936 Learning theories and exceptionality
EDGA937 Approaches to reading difficulties
EDGA938 Teaching students with learning difficulties
EDGA939 Approaches to behaviour management
EDGA946 Teaching gifted children
EDGA947 Giftedness in special populations
EDGA948 Contemporary Perspectives in the Education of Students with Diverse Needs
Recommended elective subjects include:

EDGA970 Early language and literacy development
EDGA978 Literacy practices for diverse needs
EDGA966 Educational leadership and management

(8) Teaching English to Speakers of Other Languages (TESOL)

The coursework component of a Doctorate of Education in the Program of TESOL consists of:

(i) at least four subjects chosen from the TESOL Program in line with the requirements listed in "Patterns of Study". These subjects are listed below:

EDGA976 Text and context
EDGA978 Literacy Practices for Diverse Needs
EDGA981 Second language literacy
EDGA983 Assessment in TESOL
EDGA984 Language and Learning in TESOL
EDGA985 English in specific contexts

(ii) Recommended elective subjects include:

EDGA989 Language and communication in exceptional populations
EDGA937 Approaches to reading difficulties
EDGA973 Language, ideology and culture
EDGA975 Discourse analysis
EDGA977 Communication and learning
EDGA978 Literacy practices for diverse needs
EDGA987 Children’s literature
EDGA917 International and intercultural perspectives
EDGA966 Educational leadership and management

Research Methodology and Project Subjects

EDGA901 Advanced Qualitative Research Methods
EDGA902 Advanced Quantitative Research Method
EDGA903 Minor Project in Education
EDGA912 Special Research Topic
EDGA925 Advanced seminar

Subjects in this group do not constitute a separate area of specialisation, but provide the various methodology and project subjects which are required for completion of the EdD as explained above in the section Patterns of Study.

3. HONOURS MASTER OF EDUCATION

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

Entry requirements

The degree of Honours Master of Education (MEd(Hons)) in the Faculty of Education shall be subject to the University’s rules for the award of the degree of Honours Master together with the following guidelines:

1. Entry to the degree program will normally be available to a person who has:

(a) completed the requirements for an approved Bachelor’s degree with Honours Class II Division 2 or higher and who holds an approved teaching qualification, or
(b) completed the University’s Master of Education Degree with results averaging credit level or better, or
(c) completed qualifications deemed by the University Education Committee to be the equivalent of the University’s Master of Education Degree with results averaging credit level or better, or
(d) completed such other qualifications as might be approved by the University Education Committee on the recommendation of the Head of the Graduate School provided that in the view of the University Education Committee any such person shall have accumulated the equivalent of 48 credit points beyond a Pass degree.

2. Students who have completed an MEd degree in the professional development orientation (see section 5) or its equivalent with results averaging credit level or better must complete 24 credit points of coursework at Credit level or better, before proceeding to a 24 credit points thesis.

These 24 credit points will comprise:

(i) 8 credit points of an advanced methodology subject (EDGA901 or EDGA902)
(ii) EDGA903 Minor Project (8 credit points).
(iii) An elective subject, chosen in consultation with the thesis supervisor.

If one of these subjects has been completed in an earlier course of study, it may be replaced by another subject chosen in consultation with the Program Co-ordinator. The first two subjects must be completed prior to enrolment in EDGA904 (Minor Thesis), and must be passed at credit level or better, at the first attempt. Failure to achieve a credit average in these two subjects at the first attempt will lead to termination of MEd(Hons) candidature.

Patterns of Study

Either

EDGA905 48 credit point thesis;
The Master of Education degree will normally be completed in two sessions of full-time study, or in four to six sessions of part-time study. The first two sessions of part-time study are the same for both the professional and research orientation streams.

Suggested progression patterns

3. Students who have completed an MEd degree in the professional development orientation may proceed to MEd(Hons), provided they meet the

2. Specialisations on testamur

The degree of Master of Education (MEd) in the Faculty of Education shall be subject to the University’s rules for the award of the degree of Master

Patterns of Study

1. The degree program will normally be completed in two sessions of full-time study or four sessions of part-time study.

2. The degree program shall involve:
   (a) a thesis embodying the results of an investigation to the value of 48 credit points; or
   (b) a minor thesis embodying the results of an investigation whose credit point value is 24 together with satisfactory completion of coursework

3. A candidate may not include in this degree program any subject which the candidate has previously taken and had credited towards a

4. The University Education Committee shall appoint supervisor/s for each candidate on the recommendation of the Head of the Graduate School of Education.

4. HONOURS MASTER OF ARTS

Candidates for the degree who have completed a Bachelors Honours Degree at the level of Class II, Division 2 or higher in an appropriate area will enrol in a 48 credit point major thesis, subject number EDGA905. Interested candidates should contact the Head of the Graduate School of Education.

5. MASTER OF EDUCATION

The Master of Education is an introductory higher degree allowing two alternative patterns of study. One pattern focuses on a professional development

Requirements for the Degree Program

1. The degree program will normally be completed in two sessions of full-time study or four sessions of part-time study.

2. The degree program shall involve:
   (a) a thesis embodying the results of an investigation to the value of 48 credit points; or
   (b) a minor thesis embodying the results of an investigation whose credit point value is 24 together with satisfactory completion of coursework

3. A candidate may not include in this degree program any subject which the candidate has previously taken and had credited towards a

4. The University Education Committee shall appoint supervisor/s for each candidate on the recommendation of the Head of the Graduate School of Education.

Patterns of Study

1. Either (i) the professional orientation stream:
   (a) EDGA900 Introduction to Research Methods in Education (8 credit points), and
   (b) at least 24 credit points (at least 3 subjects each of 8 credit points) from a single Program (major

Or (ii) The research orientation stream, for students wishing to proceed directly to MEd(Hons) by thesis or Doctoral programs:
   (a) EDGA900 Introduction to Research Methods in Education (8 credit points), and
   (b) at least 24 credit points (at least 3 subjects each of 8 credit points) from a single Program (major

2. Specialisations on testamur

From 1997 a candidate may be eligible to include a specialisation on the final degree testamur, (eg MEd specialising in Information Technology or MEd specialising in Special Education). In order to qualify for a specialisation to be recorded on the degree testamur, a candidate must complete at least four subjects from the chosen Program area. Joint specialisations will not be recorded.

3. Students who have completed an MEd degree in the professional development orientation may proceed to MEd(Hons), provided they meet the

Suggested progression patterns

The Master of Education degree will normally be completed in two sessions of full-time study, or in four to six sessions of part-time study. The first two

sessions of part-time study are the same for both the professional and research orientation streams.
A part-time student will complete up to two subjects each session. The sequence of study in the specialisation will be determined by the subjects on offer in each year and by the pattern of pre- and co-requisites in each Program. Any alternative patterns of study must be discussed with both the Program Co-ordinator and the Head of the Graduate School.

Note: EDGA900 Introduction to Research Methods in Education is a single session subject which is repeated each session. Students have the choice of session in which to complete it, but should consider the advice of the Program Co-ordinator for their specialisation. It is a compulsory component of the Master of Education program and must be completed as one of the first four subjects studied. No exemptions will normally be considered.

Course of study
It should be noted that not all the following subjects will necessarily be offered in 1999. Final arrangements will depend upon student numbers and staff resources. Prospective students are strongly recommended to discuss their program of study with the Co-ordinator responsible for the Program in which they are interested or the Head of the Graduate School and obtain a copy of the relevant Graduate School of Education Handbook.

Details of all offerings in the Graduate School are available from the Graduate School of Education Postgraduate Courses Handbook, available from the Office of the Dean or the Graduate School Office. A suggested program of study is available for each Program.

All MEd students are required to include EDGA900 Introduction to Research Methods in Education in their program. Additional specific requirements for program specialisations are listed below.

Program: Adult Education and Training
EDGA991 Instructional design*
EDGA99 Psycholology of adult learning
EDGA983 Evaluation and assessment
EDGA99 Learning strategies and communication
EDGA995 Management and organisational context of learning
EDGA996 Issues in adult education and training
EDGA997 Introduction to tertiary teaching
*Compulsory subjects for students wishing to complete a specialisation in Adult Education and Training

A specialisation in this Program requires the completion of at least three subjects chosen from the Adult Education and Training Program. Variations must be approved by the Program Area Co-ordinator (Dr Max Gillett). Not all subjects are offered every year, and students must consult with the academic adviser before completing enrolment procedures.

Program: Early Childhood
From 1997 the School will be offering a series of subjects which will form a specialisation in Early Childhood Education. The subjects listed below are existing subjects which may form part of the revised Program. The list will be amended as the new program is developed.

EDGE910 Early Childhood Curriculum Theory and Practice*
EDGE911 Child Development*
EDGE913 Music Education in Early Childhood
EDGA970 Early language and Literacy development
EDGA967 Children's literature
EDGE971 Assessment and evaluation of language and literacy
EDGA957 Approaches to reading difficulties
EDGA947 Giftedness in special populations
* Currently undergoing formal University approval processes, and only offered on a full-fee basis
# Core subjects in Early Childhood

Program: Educational Leadership
From 1997 the School will be offering a series of subjects which will form a specialisation in Educational Leadership. The subjects listed below are existing subjects which may form part of the revised Program. The list will be amended as the new program is developed.

EDGA911 Managing curriculum change
EDGA913 Program evaluation
EDGA915 Quality learning and teaching
EDGA917 International and intercultural perspectives
EDGA960 Foundations of policy studies
EDGA964 Educational management and administration
EDGA966 Educational leadership and management
EDGA951 Information systems and educational management

Program: Information Technology in Education and Training
EDGA950 Information Technology and education and training*
EDGA951 Information systems and educational management
EDGA952 Designing instructional software
EDGA954 Interactive multimedia in education
EDGA955 Information Technology and cognitive processes
EDGA956 Advanced studies in interactive learning
EDGA957 Implementation and evaluation of technology-based learning
EDGA958 Instructional strategies and authoring*
*Compulsory subjects for students wishing to complete a major specialisation in Information Technology in Education and Training. In addition to the compulsory subjects, students choose other subjects from the list to complete at least 24 credit points. The choice of subject will depend on the background of the students. Specialist subjects are available for students who already have a background in the area, and professional subjects available for students with an interest, but little background, in the area. Students should discuss their proposed course of study with the Program Co-ordinator (Associate Professor J Hedberg).

Program: Literacy Education
EDGA970 Early language and literacy development
EDGA971 Assessment and evaluation of language and literacy
EDGA975 Discourse Analysis
EDGA978 Text and context
Program: Physical and Health Education
EDGA920  Curriculum problems and issues in physical and health education
EDGA921  Studies in the scientific bases of health education and health promotion
EDGA922  Theoretical and practical bases of coach education
EDGA923  Sport, culture and education
EDGA924  Adolescent health status and behaviour
EDGA926  Theory and practice of outdoor education and recreation
EDGA927  Facilitation techniques in outdoor education
EDGA928  Issues in coach education and administration

A specialisation in Physical and Health Education requires the completion of three subjects. Normally these subjects will be chosen from the Physical and Health Education Program. Variations must be approved by the Program Co-ordinator Dr Paul Webb. Not all subjects are offered every year, and students must consult with the academic adviser before completing enrolment procedures.

Program: Special Education
EDGA936  Learning theories and exceptionality*
EDGA937  Approaches to reading difficulties
EDGA938  Teaching students with learning difficulties
EDGA939  Approaches to behaviour management
EDGA946  Teaching gifted children
EDGA947  Giftedness in special populations
EDGA948  Contemporary perspectives in the education of students with diverse needs
EDGA949  Language and communication in exceptional populations

*Compulsory subject for students wishing to complete a major specialisation in Special Education. A specialisation in this Program requires the completion of three subjects chosen from the Special Education Program. Students should discuss their proposed course of study with the Program Co-ordinator (Ms Deslea Konza) as teaching accreditation requirements in the Special Education and Gifted and Talented Education areas will depend on subject choice.

Program: Teaching English to Speakers of Other Languages (TESOL)
EDGA976  Text and context*
EDGA978  Literacy Practices for Diverse Needs
EDGA981  Second language literacy
EDGA983  Assessment in TESOL
EDGA984  Language and Learning in TESOL
EDGA985  English in specific contexts

*Compulsory subject for students wishing to complete a major specialisation in TESOL. A specialisation in this Program requires the completion of three subjects chosen from the TESOL Program. Students should discuss their proposed course of study with the Program Co-ordinator (Dr Bev Derewianka) as teaching accreditation requirements in the TESOL area will depend on subject choice.

The Master of Education specialising in TESOL is also available as a full-fee, distance education course. Contact the Program Co-ordinator for more details.

Research Methodology and Project Subjects
EDGA900  Introduction to Research Methods in Education
EDGA901  Advanced Qualitative Research Methods
EDGA902  Advanced Quantitative Research Methods
EDGA903  Minor Project in Education
EDGA912  Special Research Topic
EDGA925  Advanced Seminar

Subjects in this group do not constitute a separate area of specialisation, but provide the various methodology and project subjects which are required for completion of the MEd and higher degrees as explained above in the section Patterns of Study.

Advanced Standing
The Faculty of Education has approved up to 8 credit points of Advanced Standing in the Master of Education to currently enrolled candidates who have completed any of the following Department of School Education, AMES and other accredited professional development courses:
Adult Literacy Teaching: A Professional Development Course, or
Certificate in School Leadership and Management, or
Certificate of Special Education(Integration)*, or
Certificate of Faculty Administration*, or
Collaborative Learning and Reflective Practice*, or
Computing Studies Intensive Methodology Course (CSIM), or
Design and Technology Training Agents
Completion of this course with the Tertiary Extension Lobe will allow candidates 8 credit points of Advanced Standing in the Curriculum specialisation plus 8 credit points Advanced Standing for an elective subject), or
Diploma in TESOL (UNSW/WELC), or
Educative Leadership, or
ESL Basic Training K-12, or
Faculty Leadership for Effective change (FLEC), or
Frameworks: A Literacy & Learning Course*, or
Frameworks: Assessment & Evaluation Module *, or
Interactive Multimedia Workshop (Univ. Wollongong)*, or
Introduction to Functional Grammar (NSW/AMES), or
Learning Assistance Support Team (LAST), or
LOTE Intensive Methodology (LIM), or
Supervision for Effective Teaching (SET), or
Team Leadership Course (TLC)* formerly FLEC.
The Graduate Certificate in Computer-Based Learning comprises 24 credit points chosen as follows: The Graduate Certificate in Computer-Based Learning is designed to enable graduates to extend their knowledge of the use of computer technology in a self-study open-learning format, with many of the materials available on Macintosh or Windows CD-ROM disk. A Web-based format is also being developed. It consists of three subjects:

1. EDGA 990 Career development and support.
2. EDGA 911 Advanced Perspectives.
3. EDGA 912 Advanced Studies in a KLA.

Further information on course cost and application material is available from either the Graduate School of Education or UniAdvice.

**Section 3**

Candidates may claim a maximum of eight credit points of Advanced Standing on this basis in one program of study.

Requirements for the Degree Program

Please refer to the Pass Master Degree Rules and note the following additions:

1. Each 48 credit point program shall include a minimum of 24 credit points comprising a specialisation within the degree. The area of specialisation shall be chosen from the Programs listed in the Schedule of Subjects for the Master of Education;
2. A candidate for the Master of Education degree, may, with the approval of the Head of School, include in his/her program subjects not exceeding 16 credit points in aggregate selected from the Schedule of Graduate subjects offered by other schools or departments, provided that the Head of the other Department or School approves such selection;
3. A person wishing to use the Master of Education degree as a qualifying program for admission to the Honours Master of Education or Doctoral degrees will normally be expected:
   (a) to complete satisfactorily those subjects in the research orientation strand of the Master of Education Degree; and
   (b) to achieve results averaging credit level or better in the Master of Education Degree.
4. Students who have completed an MEd degree in the professional development orientation with results averaging credit level or better are eligible for admission to the Honours Master of Education, but should consult the entry requirements for this degree (Section 3) for the required pattern of study.

6. MASTER OF TEACHING STUDIES

The Master of Teaching Studies (MTS) program is an optional second year of pre-service Teacher Education which will be offered for the first time in 1998 to those who successfully complete the Graduate Diploma of Education in 1997. It is intended to improve students' classroom skills through an extended school experience as well as deepening understanding of teaching, learning and educational issues. There is also the opportunity to begin to develop expertise in an area of specialisation in education at the postgraduate level. The program is offered on a full time basis only and is intended to be completed in the year immediately following the GDipEd year. The Master of Teaching Studies is a post graduate degree with the same status as the Faculty of Education's MED; MTS graduates will be able to proceed to other postgraduate programs such as the EdD and MED(Hons). Thus the program functions as both a second year of pre service preparation and a first year of higher degree study in Education.

Entry

Candidates must have completed the University of Wollongong Graduate Diploma in Education in 1997. Applicants who have completed the GradDipEd prior to this, or an equivalent program from another institution should apply for the Master of Education program.

Pattern of Study

The MTS program consists of 48 credit points of study comprising six 8 credit point subjects. The MTS program is based around three professional studies subjects: a school-based Internship subject; an Advanced Perspectives subject which offers further study in curriculum, psychology, philosophy, sociology and other areas as they relate to teaching and the classroom; and Advanced Studies in a KLA. The remaining subjects include EDGA 900 Introduction to Education Research Methods and 16 credit points chosen from the Graduate School of Education 900-level postgraduate schedule or other 900-level postgraduate schedules. Postgraduate areas of study in Education include: Adult Education, Early Childhood, Educational Leadership, Information Technology, Literacy, Physical Education and Health, Special Education and TESOL. While studying in an education specialisation MTS students will be working alongside other postgraduate students who are experienced educators working in both schools and other learning organizations.

Annual: 24 credit points of professional subjects.
EDGC 909 Teaching Internship. Includes a term full-time in a school.
EDGC 911 Advanced Perspectives.
EDGC 912 Advanced Studies in a KLA.

Session 1: 16 credit points (+ Annual subjects)
EDGA 900 Introduction to Research Methods.
Any 900-level subject in a school-related area of study. For areas of choice see the elective areas listed.

Session 2: 8 credit points (+ Annual subjects)
A second 900-level subject.

8. GRADUATE CERTIFICATE IN COMPUTER-BASED LEARNING

The Graduate Certificate in Computer-Based Learning is designed to enable graduates to extend their knowledge of the use of computer technology in teaching. Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e a three year degree or equivalent). The Graduate Certificate in Computer-Based Learning comprises 24 credit points chosen as follows:
for three subjects on condition that the applicant surrender the Graduate Certificate.

The Graduate Certificate in Higher Education will comprise -

- EDGA997 Introduction to Tertiary Teaching
- EDGA991 Instructional Design
- EDGA993 Evaluation and Assessment

Plus two subjects chosen from the subjects listed in the Program "Information Technology in Education and Training" in the Graduate School schedule chosen in consultation with the Course Co-ordinator.

9. GRADUATE CERTIFICATE IN EARLY CHILDHOOD EDUCATION

The Graduate Certificate in Early Childhood Education is designed to provide for the development of early childhood teachers as reflective practitioners and researchers in their field. It will allow teachers working in schools and centres, as well as private studio and high school teachers working in areas such as Music with young children, but without early childhood qualifications to develop and diversify career paths in early childhood. This course is only offered as a full-fee program. Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three year degree or equivalent). The Graduate Certificate in Early Childhood Education course comprises three 8-credit point subjects.

The two generic core subjects:
- EDGE910 Early Childhood Curriculum Theory and Practice
- EDGE911 Child Development

The third elective subject will be based on language, management, music and special education. It will be chosen from:
- EDGE913 Music Education in Early Childhood
- EDGA970 Early Language and Literacy Development
- EDGA867 Children's Literature
- EDGA966 Education Management and Leadership
- EDGA937 Reading Difficulties
- EDGA947 Giftedness in Special Populations

10. GRADUATE CERTIFICATE IN CURRICULUM LEADERSHIP

The Graduate Certificate in Curriculum Leadership is designed to provide an opportunity for a wide range of mid-career professionals in schools, tertiary education and training to undertake an intensive professional development program to address the changing nature of their work. Changing structures in all educational and training work places are placing significant demands on personnel to be proactive in leading and managing change in what is taught and how learning is managed. Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three year degree or equivalent).

The Graduate Certificate consists of three 8 credit point subjects usually completed over one year of study:
- EDGA966 Leadership and School Management
- EDGA911 Managing Curriculum Change

Plus one elective from:
- EDGA913 Program Evaluation
- EDGA915 Quality Learning and Teaching
- EDGA960 Foundations of Policy Studies
- EDGA917 International and Intercultural Perspectives

11. GRADUATE CERTIFICATE IN ENVIRONMENTAL EDUCATION

The Graduate Certificate in Environmental Education is designed to assist educators whose task it is to instruct the public about environmental issues. It focuses upon efficient management of the natural and built resources that are used daily by environmental educators, the delivery of effective instruction in, about and for the environment to all members of the community, and the critical evaluation of current teaching practices.

The structure of the Master of Education Degree and Graduate Diploma in Adult Education allows students from the Graduate Certificate in Environmental Education to extend into either of these degrees following successful completion of the award. Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three year degree or equivalent).

The Graduate Certificate in Environmental Education comprises 24 credit points (three subjects):
- EDGA981 Instructional Design
- EDGA918 Environmental Education: Pedagogy and Curriculum Perspectives
- ENV920 Scientific Basis of Environmental Management

12. GRADUATE CERTIFICATE IN GIFTED EDUCATION

The Graduate Certificate in Gifted Education is designed to provide a specialist qualification in the area of Gifted Education for graduates interested in qualifying in this area. Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e. a three year degree or equivalent). The course consists of 24 credit points completed over twelve months, as follows:
- EDGA936 Learning Theories and Exceptionality
- EDGA946 Teaching Gifted Children
- EDGA947 Giftedness in Special Populations
- EDGA948 Contemporary Perspectives in the Education of Students with Diverse Needs

13. GRADUATE CERTIFICATE IN HIGHER EDUCATION

The Faculty of Education introduced in 1993 the award of Graduate Certificate in Higher Education. This program is available to all existing and newly appointed academic staff of the University. The course will allow staff to develop their teaching capabilities and obtain a formal award as evidence of appropriate teaching skills.

The Graduate Certificate in Higher Education will comprise -
- EDGA997 Introduction to Tertiary Teaching
- EDGA991 Instructional Design
- EDGA993 Evaluation and Assessment

EDGA997 Introduction to Tertiary Teaching may also be pursued independently as part of a staff development program. Staff who successfully complete the Graduate Certificate in Higher Education would be eligible to enrol in the Graduate Diploma in Adult Education and Training with Advanced Standing for three subjects on condition that the applicant surrender the Graduate Certificate.
14. GRADUATE CERTIFICATE IN LITERACY

The Graduate Certificate in Literacy is designed to provide a specialist qualification in the area of Literacy Education for teachers interested in qualifying in this area. This is offered as an on-campus coursework program. The Graduate Certificate is also available as a full-fee, distance education program. Contact the Literacy program co-ordinator for more details.

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

The course consists of 24 credit points completed over twelve months.

Three subjects are chosen from the following list:

- EDGA970 Early Language and literacy development
- EDGA971 Assessment and evaluation of language and literacy
- EDGA973 Language, ideology and culture
- EDGA975 Discourse analysis
- EDGA976 Text and context
- EDGA977 Communication and learning
- EDGR911 Teaching Reading
- EDGR912 Teaching Writing

15. GRADUATE CERTIFICATE IN SPECIAL EDUCATION

The Graduate Certificate in Special Education is designed to provide a specialist qualification in the area of Special Education for graduates interested in qualifying in this area. Contact the Special Education program co-ordinator for more details. Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e., a three-year degree or equivalent).

The course consists of 24 credit points completed over twelve months, as follows:

- EDGA936 Learning theories and exceptionality
- EDGA937 Approaches to reading difficulties
- EDGA938 Teaching students with learning difficulties
- EDGA939 Approaches to behaviour management
- EDGA989 Language and communication in exceptional populations
- EDGA948 Contemporary Perspectives in the Education of students with diverse needs

16. GRADUATE CERTIFICATE IN TESOL

The Graduate Certificate in TESOL (Teaching English to Speakers of Other Languages) is designed to provide a specialist qualification in the area of TESOL Education for graduates interested in qualifying in this area. Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (i.e., a three-year degree or equivalent).

The course consists of 24 credit points completed over twelve months, as follows:

- EDGA976 Text and context
- EDGA984 Language and Learning in TESOL

Plus one subject from the following:

- EDGA981 Second Language Literacy
- EDGA983 Assessment in TESOL

The Graduate Certificate is also available as a full-fee, distance education program.

17. GRADUATE DIPLOMAS

C. GRADUATE DIPLOMAS

The Graduate Diploma in Education is designed for those seeking a teaching qualification recognised by employing bodies in the NSW Primary and Secondary school systems. (Course details are outlined in Section 18 below)

The Graduate Diploma in Adult Education & Training is designed to extend existing three-year qualifications and provide an educational/training qualification for candidates working in the adult education area. (Course details are outlined in Section 17 below)

The Graduate Diploma in TESOL is designed to extend existing three-year qualifications and provide an educational qualification for candidates working in the English language teaching area. (Course details are outlined in Section 19 below)
### 18. GRADUATE DIPLOMA IN EDUCATION

The Graduate Diploma in Education (GDipEd) is a professional pre-service course in education for graduates of this or another approved university who seek teacher qualifications. It also serves as an introduction to the study of education for those who will later pursue further studies in the field, for example at the Masters level.

It is envisaged that a second, optional year of full time pre-service teacher education will be available in 1998 to those completing the GDipEd at Wollongong at the end of 1997. This will lead to the award of a pre service Masters degree in teaching. Students will be able to leave at the end of 1997 with the GDipEd which will enable them to teach or they may stay on for the second year to complete a Masters degree. This proposed program has been approved by the University in principle but details and the procedures for final approval have not been completed at the time of writing.

Intending applicants for the Graduate Diploma course are advised that it may be necessary to restrict enrolments. If this is necessary, selection to the course will be made on the basis of academic merit and suitability of the first degree to teaching requirements. Preference will be given to graduates of the University of Wollongong. A statement of interests and experience in Education will also be requested from applicants and will be considered as part of the selection process.

The main aim of the course is to provide a professional course of pre-service education for intending primary and secondary school teachers. The structure of the program seeks to combine the practical and theoretical elements of teaching by engaging students in professional aspects, including Methods work and classroom practice, from the beginning of the course. Underpinning and integrated with the professional aspects are curriculum studies and the “Foundation” disciplines of education.

Each component is intended to contribute to the development of concepts and skills relating to an understanding of and competence in teaching. It is expected that prospective teachers will develop as autonomous professionals who will be competent, innovative, capable of contributing to the formulation of curriculum in schools and most important committed to their own continuous professional growth.

The course is for one year full-time, over an extended academic year of 36 teaching weeks from early February to early December and it is not possible to commence the course in the middle of the year. The GDipEd program involves lectures, seminars, tutorials, individual assignments, group exercises and nine weeks of full-time work in local schools. Methods work and practice teaching are provided in co-operation with local schools. Students are advised that the structure of the course makes it preferable that it be undertaken full-time. Students who wish to pursue the course part-time should consult the GDipEd Director (Dr Michael Wilson) or the Professional Officer before enrolling.

**Assessment**

Students must satisfactorily complete every subject and major component in their program of study before the Graduate Diploma will be awarded. Assessment for each subject in the GDipEd program will be determined by individual lecturers. More specific details of assessment will be given in individual subject outlines.

**Attendance**

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

**Course Outline**

Students are required to complete subjects as set out below, with a total of 48 credit points:

For those students pursuing secondary school methods:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC800 Practicum</td>
<td>8</td>
</tr>
<tr>
<td>EDUC801 Learners with Special Needs</td>
<td>4</td>
</tr>
<tr>
<td>EDUC802 Pedagogy</td>
<td>8</td>
</tr>
<tr>
<td>EDUC806 Curriculum Studies</td>
<td>6</td>
</tr>
<tr>
<td>EDUC803 Perspectives in Education A</td>
<td>6</td>
</tr>
<tr>
<td>EDUC804 Perspectives in Education B</td>
<td>4</td>
</tr>
<tr>
<td>EDUC811 Personal Development, Health and Physical Education</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total:** 8 credit points of Secondary Methods

For those students pursuing primary school methods:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC800 Practicum</td>
<td>8</td>
</tr>
<tr>
<td>EDUC801 Learners with Special Needs</td>
<td>4</td>
</tr>
<tr>
<td>EDUC802 Pedagogy</td>
<td>8</td>
</tr>
<tr>
<td>EDUC806 Curriculum Studies</td>
<td>6</td>
</tr>
<tr>
<td>EDUC803 Perspectives in Education A</td>
<td>6</td>
</tr>
<tr>
<td>EDUC805 Perspectives in Education C</td>
<td>2</td>
</tr>
<tr>
<td>EDUC811 Personal Development, Health and Physical Education</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total:** 10 credit points

**Methods Subjects**

Students are required to complete successfully Primary or two Secondary methods. Methods subjects are central to the program and are offered throughout the year. The Method areas which may be available will differ from year to year. Students are advised to check with the Faculty regarding the availability of specific Methods subjects. Students are also advised to check with the Faculty through the Professional Officer, Directorate of Teacher Education, regarding the combinations of methods which will satisfy the requirements of the NSW Department of Education. A letter from the NSW Department of School Education stating that the student's undergraduate program is acceptable to the Department for recognition as a teacher of the chosen methods area(s) is required of each student by the beginning of the course.
18. GRADUATE DIPLOMA IN TESOL

The Graduate Diploma in TESOL is a coursework postgraduate Diploma designed to meet the specific educational development needs of a broad range of English language teachers and educators. The course is designed to cover the generic professional skills for all those who work in the TESOL area in a variety of settings - business, industry, community education, government and private organisations. Candidates will pursue theoretical studies and demonstrate their skills and knowledge in a special project/practicum.

The Graduate Diploma in TESOL may also serve as an alternative form of entry into the Master of Education, which requires a formal background in the discipline of Education. The course can be undertaken as a full-fee off-campus program, if an appropriate cohort is available, or as an on-campus HECS course.

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

Pattern of study
Candidates will be required to complete

1. 24 credit points chosen from 200-300 level subjects, ie
   - EDUL230 English Language: Examining Learners’ Problems (6 credit points)
   - EDUL240 Materials and Technology in Language Teaching (6 credit points)
   - EDUL250 Programming and Methodology in Language Teaching (6 credit points)
   - EDUL330 Practicum or Project in Language Teaching (6 credit points)
   plus

2. The following two subjects:
   - EDGA976 Text and Context (8 credit points)
   - EDGA984 Language and Learning in TESOL (8 credit points)
   plus

3. A choice of one of the following electives
   - EDGA981 Second Language Literacy (8 credit points)
   - EDGA983 Assessment in TESOL (8 credit points)

Enquiries regarding this program should be directed to the TESOL Program Co-ordinator, Dr B Derewianka.

SUBJECT DESCRIPTIONS

Where textbooks and/or co-ordinators are not specified, details will be made available at a later date.

Due to the articulated structure of the postgraduate degree program in the Graduate School of Education, many subjects are listed in more than one Degree schedule. Candidates must consult the course requirements for the Degree in which they are enrolled to ensure they are following the correct sequence for their course of study.

All subjects are listed in alphanumeric order in the subject descriptions following. The Graduate School is currently reviewing its subject numbering sequence and students should check carefully the number and title of their intended course of study.

The subjects EDG#000-998 form the MEd, MEd(Hons), MA(Hons), EdD and PhD programs. See previous sections for details of course structures and requirements.

**EDGA806 Practicum and Project**
Autumn/Spring/Double 8 cp

The practicum GDipAdEd allows students to demonstrate their knowledge and performance skills in their work environment. They must demonstrate such basic professional competencies as needs assessment, course design, development, implementation, evaluation, and change management. The practicum is based on an individually defined and negotiated learning contract. Initial meetings will focus on refining ideas and developing a proposal after which students undertake their project with help from a nominated supervisor.

**EDGA836 Practicum and Project**
Autumn/Spring/Double 8 cp

Contact hrs: self study equivalent to 3 hrs tutorial per week. Available as full-fee subject only.

This is offered on a full-fee basis in an open-learning format. The project must demonstrate that the student has acquired the basic professional competencies of presentation, needs assessment, design, development, evaluation, implementation, and change management required of an adult career development program. It is an individually defined and negotiated topic. Students undertake their project with a nominated supervisor. This subject completes the GCertACD.

**EDGA900 Introduction to Educational Research Methodology**
Autumn/Spring 8 cp

Contact hrs: 3 hrs per week lectures and seminars.

Topics to be studied will include Principles and Epistemology of Educational Research; Descriptive and Inferential Techniques; Case Study and Action Research; Problem Identification; Design and Analysis; Interpretation of Findings; Information and Computer Based Technology in Research; Overview of Research Paradigms; Ethics in Education Research. A self-study module is also available for students who have difficulty attending the Wollongong campus.

**EDGA901 Advanced Qualitative Research Methods**
Autumn/Spring 8 cp

Contact hrs: 3 hrs per week lectures and seminars.

The purpose of the subject is extend understandings of the qualitative research paradigm and provide opportunities for the systematic discussion and application of inquiry approaches relevant to individual participant needs and interests. An examination of the rationale and epistemological foundations for qualitative inquiry will precede discussion of the ethics and practice of data gathering and analysis, the role of the ethnographer and the communication of inquiry findings.

**EDGA902 Advanced Quantitative Research Methods**
Autumn/Spring 8 cp

Contact hrs: 2 hrs lecture and 1 hr laboratory per week.

The objective of the subject is to provide some of the practical statistical tools that can be used to carry out educational research. There is heavy emphasis on practical use of software to solve statistical problems, but this is done only after formal derivation of particular techniques.

**EDGA903 Minor Project in Education**
Autumn/Spring/Double 8 cp

This subject is part of the research orientation in the MEd program. It enables a student to explore a research issue in a sustained piece of writing, as preparation for higher degree studies. No project work should be commenced without approval from the Program Co-ordinator or the Head of the Graduate School.
EDGA904 Minor Thesis
Double
24 cp
Prerequisite: completion of 24 credit points of appropriate coursework, including EDGA901 or EDGA902, completed at Credit level or better.
This is the thesis subject for candidates enrolling in the Minor Thesis component of the Master of Education (Honours) program in the Faculty of Education. Candidates are required to submit a research thesis in line with relevant University Rules. No thesis work should be commenced without the approval from an appropriate academic supervisor and the Head of the Graduate School of Education.
Intending candidates should consult the information on admission and course requirements contained in the current Graduate School of Education Handbook.

EDGA905 Major Honours Thesis
Double
48 cp per year
This is the thesis subject for candidates enrolling in a Major Thesis in the MEd(Hons) course in the Faculty of Education. Candidates are required to submit a research thesis in line with the relevant University Rules. No thesis work should be commenced without approval from an appropriate academic supervisor and the Head of the Graduate School of Education.
Intending candidates should consult the information on admission and course requirements contained in the current Graduate School of Education Handbook.

Candidates in EDGA904, EDGA905 and EDGA909 will be required as part of their candidature to participate in and present reports of their research to seminars and other appropriate forums. Continuation of candidature will be subject to the satisfactory progress of the research, and to regular participation in such events as monitored through the Annual Progress Reports. All candidates are required to be familiar with the current University of Wollongong Code of Practice-Supervision. Candidates enrolling with effect from Autumn Session 1995 are required to present a review of their proposed research topic within the first session (full-time students) or two sessions (part-time students) of their candidature. The nature of this review should be discussed with the Head of the Graduate School and the Supervisor(s) in the first session of the candidature.
Continuation of candidature will be conditional on the satisfactory presentation of the review and acceptance of the proposal by the appropriate Committee of the Graduate School of Education.

EDGA906 Directed Study in Education I
EDGA907 Directed Study in Education II
EDGA908 Directed Study in Education III
Autumn/Spring/Double
8 cp
Assessment: assignments and associated projects, optional examination.
For each Directed Study, the student in consultation with his or her supervisor outlines a program of study to support the student's successful completion of the Minor Thesis. Candidates may be selected from the Master of Education schedule of subjects, or negotiated on an individual basis to suit the student's specialisation.

EDGA909 Doctoral Thesis
Double
48 cp per year
Prerequisite: completion of required coursework at appropriate level.
This is the thesis subject for candidates enrolled in the Doctorate of Education, or a Ph.D supervised in the Faculty of Education. Candidates are required to submit a research thesis in line with the relevant University Rules. No thesis work should be commenced without the approval from an appropriate academic supervisor and the Head of the Graduate School of Education.
Intending candidates should consult the information on admission and course requirements contained in the current Graduate School of Education Handbook and refer to the information provided for EDGA904.

EDGA911 Managing Curriculum Change
Spring
8 cp
Contact hrs: 1 hr lecture, 2 hrs tutorials per week.
This subject examines contemporary approaches to change management theory and processes in relation to program planning and development in schools and adult learning organisations. Different types of change in curriculum policy and pedagogy/andragogy will be critically analysed at the international, national, state and site levels. Students will explore theory and practice of leading and evaluating change and critically reflect on their own professional involvement in the management of curriculum change.

EDGA912 Special Research Topic
Autumn/Spring
8 cp
The subject will allow students following a specific specialisation to appraise, extend and apply understanding and skills in their area of professional or academic concern. Students will be required to undertake a critical reading, review and reporting program. Some students may extend their investigation via a small field based inquiry project which will explore the related theory and program issues in a professional setting.

EDGA913 Program Evaluation
Autumn/Spring
8 cp
Contact hrs: 3 hrs lectures/tutorial and workshops per week.
A range of evaluation approaches, their assumptions and major methodologies which may be applicable to educational, formal and business and industry environments are discussed and critiqued. Students have the opportunity to participate in evaluation simulations and undertake and share their own evaluation as part of the subject. Issues addressed include: ethical priorities, program planning and budgeting, QA, accreditation, skill transfer and site based action research.

EDGA915 Quality Learning and Teaching
Autumn/Spring
8 cp
Contact hrs: 3 hrs per week lectures and seminars.
Learning and teaching is strongly influenced by international developments in education and by multicultural learning environments. Students will critically analyse curriculum and instruction from contemporary international and intercultural perspectives. The issues of language policy, intercultural communication, ethnicity, culture, power, and student participation will be examined. Students will explore concepts of international education through a comparative education perspective, including education in less industrialised regions of the world and education for minority groups.

EDGA917 Environmental Education: Pedagogy and Curriculum Perspectives
Autumn/Spring
8 cp
Contact hrs: 3 hrs per week lectures and seminars.
This subject explores pedagogical models used by various successful environmental education programs that are appropriate to the work context. Issues addressed include; ethical priorities, program planning and development, simulations and undertake and share their own evaluation as part of the subject. Issues addressed include: ethical priorities, program planning and budgeting, QA, accreditation, skill transfer and site based action research.

EDGA918 Environmental Education: Pedagogy and Curriculum Perspectives
Double
8 cp
Contact hrs: 3 hrs per week lectures and seminars.
This subject explores pedagogical models used by various successful environmental education programs that are appropriate to the work context. The nature of these models is critiqued. Students have the opportunity to participate in evaluation simulations and undertake and share their own evaluation as part of the subject. Issues addressed include: ethical priorities, program planning and budgeting, QA, accreditation, skill transfer and site based action research.

EDGA920 Curriculum Problems and Issues in Physical and Health Education
Autumn/Spring
8 cp
Contact hrs: 3 hrs per week on a single session basis; lectures, seminars, workshops.
This subject examines contemporary approaches to change management theory and processes in relation to program planning and development in schools and adult learning organisations. Different types of change in curriculum policy and pedagogy/andragogy will be critically analysed at the international, national, state and site levels. Students will explore theory and practice of leading and evaluating change and critically reflect on their own professional involvement in the management of curriculum change.

EDGA921 Studies in the Scientific Bases of Health Education and Health Promotion
Autumn/Spring
8 cp
Contact hrs: 3 hrs per session on a single session basis.
Health promotion has progressed through its infancy and is here to stay. The literature on the value of risk factor reduction is substantial and
This subject is designed to provide students with an examination of current issues. These include advanced coaching models, theoretical and practical bases of talent identification and research in coach education and sport administration. They will undertake a review of literature in one chosen area presenting the outcomes of the research in a seminar.

EDGA936 Learning Theories and Exceptionality
Autumn
8 cp
Contact hrs: 3 hrs per week.
This subject explores a range of learning theories and their application to children with special needs. Topics include: behaviourism; Piaget and critiques of his theory, socio-cultural accounts of learning; information processing perspectives including the development of metacognition and self-regulation; the relationship between language, learning and thought; and issues in the assessment of intelligence.

EDGA937 Approaches to Reading Difficulties
Autumn/Spring
8 cp
This subject examines the relevant research literature and empirical evidence regarding the acquisition of reading skills. Individual differences in reading development will be explored from both theoretical and practical frameworks in order to identify the most relevant assessment and remediation strategies.

EDGA938 Teaching Students with Learning Difficulties
Autumn/Spring
8 cp
Contact hrs: 3 hrs per week.
This subject aims to develop basic skills in assessment, program planning, program implementation and evaluation in relation to students with special educational needs. The principles of effective teaching and curriculum modification will also be addressed. Students of this subject will have the opportunity to follow up a particular issue, syndrome or approach for intensive study.

EDGA939 Approaches to Behaviour Management
Autumn/Spring
8 cp
Contact hrs: 3 hrs per week.
This subject examines a range of approaches to behaviour management and the theoretical principles upon which they are based. The problems associated with non school attendance, oppositional disorders, attention deficit disorders and other commonly occurring behaviour disorders are critically examined within the context of increasing academic engaged time and developing social and conflict resolution skills.

EDGA946 Teaching Gifted Children
Autumn/Spring
8 cp
Contact hrs: 1 hr lecture, 2 hrs seminar per week.
This subject will identify and critically examine the current issues related to the education of gifted students. It will also prepare teachers to meet effectively the needs of such students through curriculum modification and application of special educational strategies. Topics will include: definition and identification issues, instructional models; educational strategies; creativity and thinking skills, counselling needs; special populations; and the implications of policy on educational practice.

EDGA947 Giftedness in Special Populations
Spring
8 cp
Contact hrs: 3 hrs per week lecture/seminar.
This subject will critically examine the needs of special populations of students who are generally under-represented in programs for gifted children. Students will engage in analysing and evaluating alternative forms of assessment and developing appropriate strategies for curriculum design and delivery. Possible focus groups will include Aboriginal children, ethnic minority children, low SES, girls, underachievers, preschoolers, prodigies, and students with physical and learning disabilities.

EDGA948 Contemporary Perspectives in the Education of Students with Diverse Needs
Autumn/Spring
8 cp
Contact hrs: 3 hrs per week lecture/seminar.
This subject will critically examine current philosophical and policy issues related to the education of students with special needs, including gifted children. The link between theoretical frameworks and practical applications will be explored with a particular focus on the impact of current theories on change processes in special education.
EDGA950 Information Technology, Education and Training
Autumn 8 cp
Contact hrs: 3 hrs per week.
This subject will survey the policy, curriculum, pedagogical, and practical issues of using IT in teaching and learning. It will develop an understanding of the range of possible IT applications, the underlying theories employed as a basis for software design and it will overview instructional systems design and instructional design principles.

EDGA951 Information Systems and Educational Management
Spring 8 cp
Contact hrs: 3 hrs per week.
Topics will include: Information systems and their impact on educational management, development of information analysis techniques, writing specifications for systems, linking information systems with management processes and organisational structures, issues for educational management, course delivery, logistics, records management, databases, and curriculum organisation.

EDGA952 Designing Instructional Software
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week.
This subject will examine the underlying cognitive implications of knowledge systems design. The focus is on supportive learning environments emphasising interactivity and individual learning with particular reference to hypertext and the use of Web-based knowledge structures. It will include research into learning strategies using alternative structures of knowledge.

EDGA954 Interactive Multimedia in Education
Spring 8 cp
Contact hrs: 3 hrs per week.
Pre-requisite: EDGA950.
This subject will develop the skills for designing integrated interactive learning environments which employ interactive multimedia. It will discuss the research into learning from such systems, and illustrate the range of project design decisions required for effective development within the team.

EDGA955 Information Technology and Cognitive Processes
Autumn 8 cp
Contact hrs: 3 hrs per week.
This subject provides the opportunity to study information technology in the context of learning processes, especially as it relates to cognitive science and artificial intelligence. It will include research into the use of "programming" environments, artificial intelligence and cognition, development of intelligent tutoring systems, use of expert systems, embedded training and performance support systems.

EDGA956 Advanced Studies in Interactive Learning
Spring 8 cp
Contact hrs: 3 hrs per week.
Pre-requisite: at least 24 credit points (three subjects) chosen from the subjects listed for the Information Technology Program in the Master of Education Schedule. Assessment: Computer based project, essay, seminar presentation. This subject is an advanced study on a specific topic which reflects the current state of research knowledge in the field. It will discuss the design of integrated learning environments and research into learning from such environments, impact on educational organisation and upon the delivery, design, instructional and evaluation strategies.

EDGA957 Implementation and Evaluation of Technology-Based Learning
Spring/Autumn 8 cp
Contact hrs: 3 hrs per week.
This subject allows students to investigate the links between educational theory and teaching and learning practice with information technologies. Research into the implementation of information technology in education and training contexts, and the assessment of effective project implementation for technology-based learning. Evaluation of instructional software, especially interactive multimedia software, and the cognitive aspects for interfaces.

EDGA958 Instructional Strategies and Authoring
Summer/Spring/Autumn 8 cp
Contact hrs: 3 hrs per week.
This subject will enable the students to develop sophisticated concepts of using authoring tools to present their ideas for computer based learning. The subject will focus on the use of object oriented programming tools and how different instructional strategies can be implemented with such tools. Comparisons will also be made with standard authoring packages available for cross platform delivery of instructional software.

EDGA959 Adult Literacy
Spring/Summer 8 cp
Contact hrs: 3 hrs per week (1 hr lecture, 2 hr seminar/workshop).
Adult literacy education involves assistance for those who have basic literacy problems as well as those who need to extend their language abilities in workplace. This subject will examine how to identify the language demands of various contexts in which adults need to employ various literacy skills, to diagnose the literacy needs of adult clients, and to develop programs to assist clients to extend their literacy proficiency.

EDGA960 Foundation of Policy Studies
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week seminar alternating fortnightly with 3 hrs per week workshop.
Concepts dealing with common usage and common definitions of policy; formal models and real events in policy development, key elements in real life policy processes. Elements of policy theories. Critical examination of rationalist models, incrementalist models, models of power and location of influence, implementation theory. Cost/benefit approaches to policy making.

EDGA964 Educational Management and Administration
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week.
This subject examines some of the ways in which improved management and administration can contribute to more effective planning and policy implementation in education. Topics covered include devolution/centralised control and the accountability of management, and the role of program budgeting in the management of resources. Case studies are drawn from Australia and overseas.

EDGA966 Educational Leadership and Management
Spring/Autumn 8 cp
Contact hrs: 3 hrs per week.
Within the educational setting leadership and strategic management is necessary and occurs in a variety of contexts. Leadership may be a human resource issue; a financial issue; a function of curriculum development; or a policy function at micro and macro levels. An overview to the specialisation, leadership theories are examined; resource factors are explored; curriculum function reviewed; and, immediate policy issues along with theories of policy formulation and formation discussed.

EDGA970 Early Language and Literacy Development
Summer/Spring/Autumn 8 cp
Contact hrs: 3 hrs per week.
This subject focuses on language development in early childhood. It highlights theories of language learning, models of language, milestones in development, socio-cultural variation, and the implications for teaching and assessment strategies.

EDGA971 Assessment and Evaluation of Language & Literacy
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week of workshops and tutorials.
This subject examines both past and current issues and theoretical underpinnings of evaluating student learning. It will critically examine these issues in terms of contemporary theories of language and literacy learning. It will draw on recent research and theory related to the areas of psychometrics, qualitative evaluation, and linguistics. Students will also be required to trial and evaluate a range of assessment and evaluation instruments and procedures.
EDGA975 Discourse Analysis  
Autumn/Spring  
Contact hrs: 3 hrs per week.  
Pre-requisite: EDGA976.  
This subject will extend EDGA976 Text and Context drawing on a range of approaches to language (e.g. functional, rhetorical, pragmatic, and critical) in order to develop a deeper understanding of how language operates in educational contexts. This subject will also provide an opportunity for students to develop analytical skills which can be used in research studies where texts and language are the data base.

EDGA976 Text and Context  
Autumn/Spring  
Contact hrs: 1 hr lecture, 2 hr tutorial per week. 
This subject explores the relationship between texts and their contexts, focusing on the nature of language at both the level of text and grammar. It draws on a functional model of language in order to examine the way in which language is used for various purposes, both in the community and in education. Through an analysis of texts students will explore how language functions to represent our experience of the world, to enable our participation in the world, and to shape up texts which are coherent and cohesive.

EDGA977 Communication and Learning.  
Autumn/Spring  
Contact hrs: 3 hrs lecture/seminar per week.  
This subject explores the relationships which exist between communication, comprehension and learning. Research into the characteristics of effective communication and instruction, and the nature of classroom discourse will be critically analysed and its significance for teaching practice considered. The role of collaborative talk in learning to be literate will be of special interest.

EDGA978 Literacy Practices for Diverse Needs  
Autumn/Spring  
Contact hrs: 3 hrs per week.  
This subject will introduce students to mainstream classroom practices with regard to the literacy development of students from various ‘minority’ backgrounds (NESB students, students with reading difficulties, gifted and talented). It will examine ways in which mainstream programs can be adapted to meet particular literacy needs, the ways in which mainstream teachers can work with specialist teachers, the diagnosis and assessment of students’ literacy proficiency, and evaluation of literacy programs.

EDGA981 Second Language Literacy  
Autumn/Spring  
Contact hrs: 3 hrs per week.  
The cultural and ideological nature of literacy is examined within a range of social, educational and vocational contexts, including: a critical analysis of theories and second language literacy development; an analysis of literacy and TESOL teaching; the relationship between spoken and written language, implications for developing literacy programs for TESOL; principles for developing effective literacy programs; strategies for supporting the learning of literacy for ESL/EFL learners at beginner through to advanced levels.

EDGA983 Assessment in TESOL  
Spring  
Contact hrs: 3 hrs per week.  
This subject will examine various approaches to language assessment, from informal observation and self-assessment through to formal testing. In order to develop appropriate programs, TESOL teachers must be able to identify the needs of their students. This requires a solid grounding in the assessment of learners’ oral language, reading and writing. In addition, they need to be able to critically analyse and evaluate formal assessment procedures and if necessary, learn how to design assessment tasks and prepare their students to sit for external tests.

EDGA984 Language and Learning in TESOL  
Autumn/Spring  
Contact hrs: 3 hrs per week.  
This subject aims to familiarise students with the TESOL field, including current issues and areas of research. In particular, it will introduce students to various theoretical discourses in the field, comparing and contrasting relevant models of language and examining research and theory in the area of second language learning. Links will be made to classroom practice and materials as appropriate.

EDGA985 English in Specific Contexts  
Autumn/Spring  
Contact hrs: 3 hrs per week.  
This subject prepares students to design and teach English projects and programs which address the needs of a specific clientele (e.g. English for Business, in the Workplace, for new arrivals). It examines how language varies across cultural contexts (nationally or internationally) and deals with methods for exploring the contexts and relevant language (academic, vocational, social, personal) of these analyses in the study of projects, teaching programs and materials.

EDGA987 Children’s Literature  
Autumn/Spring  
Contact hrs: 3 hrs per week (1 hr lecture. 2 hr seminar/workshop).  
Students will be guided towards an appreciation, enjoyment, evaluation and critique of a broad range of children’s literature in the light of various theories of literary criticism. In addition, participants will become familiar with a number of strategies relating to children’s literacy for use in the classroom. Students will be asked to consider the apparent assumptions about children as readers in the texts examined and the relationship between new technologies and children’s literature.

EDGA989 Language and Communication in Exceptional Populations  
Autumn/Spring  
Contact hrs: 3 hrs per week lecture/seminar.  
This subject examines some of the major causes of language and communication difficulties. An overview of the topic will include an historical perspective which indicates shifts in issues such as identification, classification and categorization. Specific language difficulties associated with autism, cerebral palsy, acquired aphasia, hearing impairment, intellectual impairment and learning disabilities will be examined. Assessment of communication difficulties and evaluation of a range of educational strategies will conclude the subject.

EDGA990 Career Development and Support  
Autumn/Spring/Double  
Contact hrs: Self-study using CD-Rom materials equivalent to approximately 9 hrs study per week.  
Will identify the differences between the career development support role and other counselling roles. It will examine styles of helping and identify methods of conflict resolution; specific work life issues and the importance of work, relationships, milestones, personal events in an employee’s work life. The subject will develop specific career support skills and examine effective career outcomes. The context will be examined through issues such as ethics and privacy, effective outcomes, accreditation, conflicts of interest.

EDGA991 Instructional Design  
Autumn  
Contact hrs: 3 hrs per week.  
This subject is designed to provide students with information, modelling and practice in applying principles of instructional design to adult education settings. It includes needs assessment, task analysis, writing performance outcomes, analysis of learners, instructional strategies, media decisions, evaluation planning and implications of learning theories for instructional design. Ultimately the capabilities developed through this process should transfer to the individual workplaces and complement or supplement existing skills and capabilities.

EDGA992 Psychology of Adult Learning  
Autumn  
Contact hrs: 3 hrs per week.  
This subject is designed for professionals engaged in adult education and training. They will develop an understanding of the dynamics, theories, principles and styles common to adult learning environments. They will link theory to practice in reviewing the applications of psychological theories to adult learning. Theories considered will be drawn from the learning, motivation and personality areas. The subject will include a review of metacognitive strategies employed by learners.
EDGA993 Evaluation and Assessment
Spring 8 cp
Contact hrs: 3 hrs per week.
This subject is designed to develop in the student the essential knowledge, skills, understandings and attitudes which will ensure the sound assessment and evaluation of adult education programs. Students will design instruments for the assessment of student learning and facilitator performance in an instructional setting. They will collect data about an instructional intervention defend their approach within the framework of an appropriate evaluation methodology.

EDGA994 Learning Strategies and Communication
Spring 8 cp
Contact hrs: 3 hrs per week.
This subject is designed to develop the capabilities of students to implement instructional strategies and produce quality support materials for effective adult learning. It comprises workshops which consider the development of a climate conducive to learning and the design of appropriate learning sequences. It also requires the student to understand group process and reflect upon personal practice as a facilitator of learning.

EDGA995 Management and Organisational Context of Learning
Autumn 8 cp
Contact hrs: 2 hrs lecture/1 hr seminar per week.
This subject focuses on the political context in which the adult education occupation operates. It examines the role of adult educators within society and their role in influencing the political agenda. It provides the opportunity to engage in practical exercises to apply the concepts learned in the context of real-world issues.

EDGA996 Issues in Adult Education and Training
Spring 8 cp
Contact hrs: 3 hrs per week.
This subject introduces students to current issues facing professionals in the field, including international issues such as problem-based learning, access to technology, distance education of adults, and the implementation of government policy in adult development, working with third age learners, equity and renewal of the workforce, and literacy in the workplace. Students will consider psychological bases, learning contexts, and the management of adult teaching and learning.

EDGA997 Introduction to Tertiary Teaching
Spring/Autumn 8 cp
Contact hrs: 3 hrs per week.
This subject introduces students to a range of basic skills of tertiary teaching: planning, questioning managing, communicating and evaluating. It will deal with a range of teaching methods and consider appropriate ways of assessing student performance. The principles and practices of subject and course design will be introduced and attention will be directed towards the counselling and feedback roles which are crucial to the teaching-learning process at the tertiary level.

EDGA998 Career Management and the Organisation
Autumn/Spring/Double 8 cp
Contact hrs: Self-study using CD-Rom materials equivalent to approximately 9 hrs study per week.
This subject will address current trends in career development theory and their application to individuals moving from early career choice through life changes. The subject will focus on the organisation's perspective and identify the tools, resources and strategies available to provide for career development. Specific facilities, eg computer-based career information and guidance systems, action planning for current job enrichment, promotion and transfer, mentoring, redeployment, coaching and outplacement will be discussed and demonstrated.

EDGC909 Teaching Internship.
Double 8 cp
Students will design, implement and evaluate one or more integrated sequences of quality learning experiences extending over a period of about 10 weeks which display diversity of teaching strategies and techniques and encompass a wide range of learning styles. There will be a major emphasis on an ongoing reflective evaluation involving the student, peers, professional mentor and University staff culminating in a comprehensive critical analysis of the activities of the subject.

EDGC 911 Advanced Perspectives
Double 8 cp
Contact hrs: 3 hrs per week.
Students will work in small groups on aspects of Curriculum, Philosophy, Psychology and Sociology relevant to classrooms. Students will identify an investigation to be followed up on an individual basis through the literature and investigated in a professional context. The work will draw on skills from EDGA 900 Intro. to Research Methods and make use of professional and institutional contacts developed in EDGC 909 Internship. The report will be presented for critical analysis to the group and institutional stakeholders before being submitted for assessment.

EDGC 912 Advanced Studies in the KLAs
Double 8 cp
This subject will require students to identify and examine the factors which are driving current curriculum changes. An analysis of these change processes will be undertaken within the context of contemporary curriculum theory and through a critical review of the current literature. Students will negotiate, plan, conduct and report an investigation of an educational issue in a KLA.

EDGE910 Early Childhood Curriculum Theory and Practice
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week.
This subject examines different ways of conceptualising early childhood curriculum through an examination of designs, models and development processes. Relationships among early childhood theories, research and practices are explored. Processes of and approaches to early childhood programming are examined. Students will focus upon the relationship between observing, recording, interpreting, evaluating and identifying recommendations. Students will also be involved in independently and collaboratively investigating particular curriculum policies, syllabi and practices in early childhood settings.

EDGE911 Child Development
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week.
This subject is designed to critically examine recent research in child development. Topics include strategies for conducting early childhood research; different theoretical perspectives of development, learning and teaching; contexts of learning and development; and sociocultural variations. Emphasis is placed on teachers as researchers, and related skills and understandings will be developed through examining recent research and through students' direct involvement in conducting child studies.

EDGE913 Music Education in Early Childhood
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week.
This subject is designed to facilitate the students' understanding and appreciation of and sensitivity to the ways in which young children perceive, respond to and make music. The focus will be on engaging students in various experiences in creating and performing music, critically analysing and evaluating early childhood music programs currently available in Australia and overseas, and acquiring skills to develop and evaluate their own music programs appropriate for the early childhood years.

EDGR911 Teaching Reading
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week.
This subject will examine the nexus between reading theories and practices. Topics to be studied will include reading and its relationship to language and learning; models of reading instruction and practices; history of reading policies and methods; learning to read and learning through reading; sociocultural relationships between the reader and the written text; reading for different purposes; evaluation of reading; the reading-writing connections and current debates around reading instruction.

EDGR912 Teaching Writing
Autumn/Spring 8 cp
Contact hrs: 3 hrs per week.
This subject will examine the nexus between writing theories and practices. Topics to be studied will include the writing process and its relationship to language and learning; models of writing instruction; learning to write and learning through writing; the role of context,
EDC800 Practicum
Double 8 cp
Contact hrs: 3 hrs per week throughout the year.
This is the practice teaching component of this subject.

EDC801 Learners with Special Needs
Double 4 cp
Contact hrs: 3 hrs per week for 20 weeks.
Issues in pedagogy which are common to all levels and areas of teaching as a support to the more detailed and specific work of the Methods subjects. Topics covered will include: communication problems in the classroom; student differences and learning and teaching styles; classroom uses of Information Technology and the role of language in teaching and learning.

EDC802 Pedagogy
Double 8 cp
Contact hrs: 3 hrs per week for 20 weeks.

EDC803 Perspectives A
Double 6 cp
Contact hrs: 6 hrs per week: 4 lectures and 2 tutorials per week for 10 weeks.
This subject aims to enhance students' reflection on their experiences in schools through awareness of wider educational issues arising from studies of the history of Australian education, the sociology of education and schools, psychological perspectives, and various philosophical positions on education. Students' critical analyses within each of the disciplines are designed to highlight the inter-relation among them and the ways in which these disciplines impact on educational practice.

EDC804 Perspectives B
Double 4 cp
Contact hrs: 5 hrs per week for 5 weeks (seminars and workshops).
Secondary GDE students will undertake studies in two elected areas. The elected areas offered may include Aboriginal Education, Computers in the Classroom, Children's Literature, Reading Instruction and Remediation, Philosophy of Alternative Education, Global Education, Intercultural Education and others.

EDC805 Perspectives C
Double 2 cp
Contact hrs: 3 hr per week for 5 weeks.
Primary GDE students will undertake studies in one elected area. The elected areas offered may include Aboriginal Education, Computers in the Classroom, Children's Literature, Reading Instruction and Remediation, Philosophy of Alternative Education, Global Education, Intercultural Education and others.

EDC806 Curriculum Studies
Double 6 cp
Contact hrs: 2 hrs per week for 20 weeks.
Curriculum as planned, in action in the classroom and the relationship between these. Curriculum approaches, relationships and models. Aims, objectives, outcomes. Assessment and evaluation. Curriculum issues and perspectives: core curricula, gender, multicultural, Aboriginal and global perspectives, the inclusive curriculum. All these areas are examined in the context of teachers' professional classroom work.

EDC811 Personal Development, Health and Physical Education
Double 4 cp
Contact hrs: 1.5 hrs per week for 20 weeks.
This subject will cover aspects of personal development, health and physical education for which all teachers, whether primary or secondary, share responsibility. The subject will acquaint prospective teachers with a variety of health issues which are important to young people. Further, it will equip them with the knowledge and confidence to organise and supervise groups of young people during physical and sporting activities.

METHOD SUBJECTS
These subjects relate the student's subject discipline(s) (from undergraduate studies) to professional classroom practice. No student will be permitted to enrol in a Method subject for which they have an inadequate formal academic background. The student will apply the understandings, strategies and skills established in other strands of the course, to the study of specific school curricula and the implementation of these curricula in the schools. The topics studied will include: school curricula and the educational perspectives relevant to teaching and learning; the investigation of appropriate learning environments; teaching and learning styles; strategies and skills as they apply to the presentation of the lessons, unit planning and programming; student assessment, evaluation of learning programs and teacher performance in relation to the presentation of the curriculum; classroom management; the range and evaluation of contemporary resources. Primary students will undertake two Methods subjects, either two "double" Methods (e.g. Science I Method and Science II Method) or two "single" Methods (e.g. English Method and History Method). Social Science, Music and Art are offered as both "single" and "double" methods.

EDC821 Social Science I Method
Double 4 cp
Contact hrs: 2 hrs per week throughout the year.

EDC822 Social Science II Method
Double 4 cp
Contact hrs: 2 hrs per week throughout the year.

EDC831 English Method
Double 4 cp
Contact hrs: 2 hrs per week throughout the year.

EDC832 History Method
Double 4 cp
Contact hrs: 2 hrs per week throughout the year.

EDC833 Drama Method
Double 4 cp
Contact hrs: 2 hrs per week throughout the year.

EDC841 English as a Second Language Method
Double 4 cp
Contact hrs: 2 hrs per week throughout the year.
EDUC842 French Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC844 Italian Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC845 Japanese Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC851 Mathematics I Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC852 Mathematics II Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC860 Primary Method.
Double
Contact hrs: 6 hrs per week throughout the year.
EDUC871 Science I Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC872 Science II Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC881 Art I Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC882 Art II Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC891 Music I Method
Double
Contact hrs: 2 hrs per week throughout the year.
EDUC892 Music II Method
Double
Contact hrs: 2 hrs per week throughout the year.
ENVI920 The Scientific Basis of Environmental Management
Double
Contact hrs: 28 hrs lectures, 28 hrs seminar, up to four days fieldwork.
This course gives a comprehensive overview, with case studies, of the scientific basis of environmental management by adopting a multi-disciplinary approach to the scientific understanding of how major ecosystems work. The science of aquatic, alpine, forest, grassland and semi-arid environments, along with hazardous waste (including radioactive) management will be amongst those discussed. Students will complete a team project that develops interdisciplinary skills in addressing appropriate management strategies.
FACULTY OF ENGINEERING

MEMBERSHIP

Civil, Mining and Environmental Engineering
Engineering Physics
Materials Engineering
Mechanical Engineering

For Electrical, Computer and Telecommunications Engineering – Refer to Faculty of Informatics

RESEARCH COURSES AVAILABLE

The Faculty offers Honours Master of Engineering and Doctor of Philosophy degrees by research.

COURSE WORK POSTGRADUATE PROGRAMS

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The University reserves the right to change the content or the method of presentation of any unit of study, or to withdraw any unit or course of study which it offers, or impose limitations on enrolment in any unit or course as a result of resource limitations or for any other reason.
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Arnold G McLean, BE UNSW, PhD, CPEng, MIEAust
G John Montagner, BE UNSW, PhD, CPEng, MIEAust, AACS, FAIEA, MIEE
Devendra Raji, ME Jodhpur, PhD WA, CPEng, MIEAust, MESA

Lecturers
Frano De Boer, Dr Ir Delph, PEng, Grad IEEAust
Oliver C Kennedy, BE UNSW

Fellows
Renu Pan, BE, ME USTB, PhD, PEng, GradIEAust, MCMechES
Richard Rudziejewski, MEMech, PhD Gdansk

Professional Officer
Ian J Kirby, BScEng) UNSW, CPEng, MIEAust, MASME

Administrative Assistants
Mrs Roma Hamlet
Mrs Barbara Butler
My Nadine Fager

BHP STEEL INSTITUTE FOR STEEL PROCESSING AND PRODUCTS

Professor of Steelmaking
Rian Dippenaar, BSc(Hons), MSc Pret, PhD Cantab, BProc UNSA

Professor of Coating Technology
Hugh Brown, BA Camb, PhD Leeds

Professor of Management
Richard Badham, BA, DipSoc, PhD Warw

Honorary Professor
Keith Enever, BSc(Eng) PhD Lond, FIE Aust, CPEng, CEng, MICE

Lecturer
Geoffrey Brooks, BEng RMIT, BA Swinburne, PhD Melb

Administrative Assistant
Lorelle Pollard

INSTITUTE FOR SUPERCONDUCTING AND ELECTRONIC MATERIALS

Professor of Superconducting and Electronic Materials
Shi Xue Dou, Dipl Jilan, PhD Dalhouse, MMRS, MTMS, MIMMA, MACeS

Associate Professor
Hua Kun Liu, Dipl Jilan, Grad Dip Jilan, MCCS

ARC Research Fellows
Yuan Chang Guo, BEng MEng NEU, PhD UNSW
Joseph Horvat, BSc Zagreb, PhD Monash, GAIP, MNYSAS
Mihail Ionescu, BSc, MSc Bucharest
Jiang Ning Li, BSc China, MSc PhD Amsterdam

CRC FOR MATERIALS WELDING AND JOINING

Professor of Materials Welding and Joining
John Norrish, MSc, CEng, FWeidl, Eur Ing

CRC Research Fellows
Hua Xia, Ji, BSc, MEng China PhD Birm
Nazmul Alam, BSc MSc, PhD TUNS, CPEng, MIEAust

CRC Associate Fellows
Huijin Li, BEng, MEng Tianjin
Kelvin Ng, BSc PhD UTS
Jiang Hua Zhu, BSc Beijing, MSc, PhD

Professional Officers
Max G Conyngham, BSc UNSW, ASTC Syd Tech
Nicholas D Mackie, BSc ANU, ASEM, MSA

CENTRE FOR BULK SOLIDS AND PARTICULATE TECHNOLOGIES

(A Key Centre for Teaching and Research - A joint activity with the University of Newcastle)

Professor of Bulk Solids Handling and Associate Director
Peter C Arnold, BE PhD UNSW, DSc, FTSE, FIE Aust, CPEng

Manager, Bulk Solids Handling Laboratory
David M Cook

FACULTY VISITING COMMITTEE

Mr J Bishop, Engineering Manager, Australian Paper
Dr C Chipperfield, Deputy Executive Director, ANSTO
Councillor Kerrie Christian, Materials Engineer, BHP Slab & Plate Products Division and Councillor Wollongong City Council
Mr David Hodges, Environment Manager, BHP Steel, SPPD
Mr Greg Klamus, Manager, Capital Programs, Sydney Water Corporation
Mr Michael Muston (Chair), General Manager, Wingecarribee Council
Mr Warwick Powis, Manager Manufacturing Services, BHP Steel SPPD
Mr Ted Rigby, Managing Director, Forbes Rigby Pty Ltd
Mr J Roach, Regional Manager, Australian Business Chamber
Professor Alek Samarin, Consultant
Mr Peter Tyree, Vice Chairman, Tycan Australia Pty Ltd
Mr E J Whitehead, (Retired) Institution of Engineers Australia
Mr Peter Wolfe, (Retired), RTA
CIVIL ENGINEERING

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Engineering by Coursework or Research
3. Master of Engineering Practice in Civil Engineering
4. Graduate Diploma in Engineering

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Engineering degree by research and the Doctor of Philosophy degree:

- Geotechnical engineering
- Slope stability
- Reinforced earth
- Steel and concrete structures
- Cementitious materials for construction
- Finite element methods
- Bridge engineering
- Structural dynamics
- Flood studies
- Hydraulics and hydrology
- Water quality engineering
- Waste management
- Road construction materials
- Roads engineering
- Traffic engineering
- Microcomputer applications in analysis and design
- Computer-aided design and drafting

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN CIVIL ENGINEERING

leading to the Honours Master of Engineering.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
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Electives

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<td>CIVL902</td>
<td>Reliability in Geotechnical Engineering</td>
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<td>CIVL903</td>
<td>Concrete Technology</td>
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<td>CIVL904</td>
<td>Highway Materials</td>
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<td>CIVL907</td>
<td>Civil Engineering Computations</td>
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<td>CIVL908</td>
<td>Advanced Soil Mechanics</td>
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<td>Finite Element Methods</td>
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<td>CIVL914</td>
<td>Analysis and Design of Bridge Structures</td>
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<td>CIVL916</td>
<td>Research Topics in Civil Engineering</td>
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<tr>
<td>CIVL918</td>
<td>Steel Structures</td>
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<tr>
<td>CIVL919</td>
<td>Earth Structures</td>
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<td>CIVL923</td>
<td>Advanced Reinforced Concrete</td>
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<td>CIVL924</td>
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<tr>
<td>EENG920</td>
<td>Principles of Environmental Engineering</td>
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</table>

Note 1: The coursework program will not be offered if enrolment is less than 6 students.
Note 2: Not all subjects available in any one year.

For further details, see Course Requirements below.
# POSTGRADUATE PROGRAM IN CIVIL ENGINEERING

leading to the Master of Engineering Practice.

<table>
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<td>CIVL908</td>
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Note 1: Not all subjects available in any one year.

For further details, See Course Requirements below

## OTHER POSTGRADUATE SUBJECTS

<table>
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<td>CIVL955</td>
<td>ME Major Thesis</td>
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<tr>
<td>CIVL957</td>
<td>PhD Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

## COURSE REQUIREMENTS

1. **DOCTOR OF PHILOSOPHY**

Candidates for the degree enrol in the subject CIVL957 PhD Major Thesis.

2. **HONOURS MASTER OF ENGINEERING**

The Department of Civil, Mining and Environmental Engineering offers the following opportunities for graduates to conduct research or pursue an advanced course of study:

   (a) The Honours Master of Engineering Degree by Research Thesis

   The Honours Master of Engineering Degree by research thesis is intended for those engineers qualified and interested in specific problems. Students enrol in CIVL955 ME Major Thesis.

   (b) The Honours Master of Engineering Degree by Combinations of Coursework and Research Thesis

   This is the normal course for the younger Civil Engineer, which provides him or her with training in research and also allows greater depth of understanding in specialist postgraduate areas.

   A candidate who has a Bachelor of Engineering with Honours at Class III or higher from this University, or an approved equivalent qualification, will enrol in subjects listed in the Postgraduate Schedule and with a value of not less than 48 cps. Programs approved by the Department of Civil, Mining and Environmental Engineering comprise:

   (i) the subject CIVL951 Dissertation plus four subjects; or
   (ii) the subject CIVL950 Dissertation plus six subjects.

   **Aims**

   The programs of study allow the student to combine specialist postgraduate subjects according to his or her undergraduate background, with project work. It is intended to strengthen professional training in a context of problems and policies which reach beyond the conventionally recognised boundaries of single disciplines. Elective postgraduate subjects and introductions to disciplines in which the student has no experience, are available.

   The program for the Honours Master of Engineering Degree offered by the Department of Civil, Mining and Environmental Engineering has two explicit aims:

   (i) **Specialist Training.** Postgraduate training is provided for students with appropriate backgrounds, to enable professional development in their particular discipline. This is achieved by providing access to existing postgraduate courses already offered by Civil Engineering.

   (ii) **Interdisciplinary Training.** An interdisciplinary framework is provided, within which postgraduate training in civil engineering may be integrated with other disciplines. This is achieved by the provision of limited access to concentrated study in other disciplines.
3. MASTER OF ENGINEERING PRACTICE IN CIVIL ENGINEERING

A candidate who has a Bachelor of Civil Engineering or Environmental Engineering degree from this university, or an approved equivalent qualification, would normally be accepted. A student enrolled in a full-time program is expected to take one year to complete this course.

Candidates enrol in CIVL950 (12 cp) plus three core and three elective subjects from the Master of Engineering Practice program.

4. GRADUATE DIPLOMA IN ENGINEERING

A candidate who has completed a degree of Bachelor of Engineering and wishes to qualify for the Graduate Diploma in Engineering will enrol in the 48 credit point subject CIVL999.

Upon satisfactory completion of the subject CIVL999, the candidate is eligible for award of the Graduate Diploma in Engineering. A person who is awarded the Graduate Diploma in Engineering and who subsequently satisfies the requirements for award of the degree of Honours Master of Engineering is required by Course Rule 504(2) to surrender the testamur and associated rights for the Graduate Diploma prior to receiving the Honours Master degree.

SUBJECT DESCRIPTIONS

CIVL989 Advanced Topics in Engineering
Double (A) 48 cp
Students will normally take a selection of topics at advanced level from the following: computer aided analysis and design; computer methods; concrete design; civil engineering materials; finite element techniques; hydrology, hydraulics; numerical techniques; reliability, rock mechanics, soil mechanics; simulation; structural analysis and design; structural topology; town planning; traffic planning; traffic engineering; transportation; highway engineering; urban investigations; structural dynamics; continuum mechanics.

CIVL901 Project Autumn/Spring 6 cp
First stage of a comprehensive study concerning a specific topic; formulation of problem and literature study, critical examination of current work; planning of solution methods; presentation of results.

CIVL902 Reliability in Geotechnical Engineering Autumn/Spring 6 cp
Conventional safety factor and its limitations in representing safety or reliability; geotechnical predictions and associated degree of confidence; variability of soil and rock deposits; uncertainties in material parameters; geotechnical models and failure mechanisms; statistical data and probabilistic approaches; failure probabilistic approaches compared; reliability of geotechnical systems; recent developments in probability of failure propagation and initiation, most probable extend of embankment or slope failure.

CIVL903 Concrete Technology Autumn/Spring 6 cp
Mix design theories; design of high strength and lightweight concrete, elastic behaviour; strength, creep, shrinkage; significance of tests and properties of constituent materials; analysis of results; non-destructive tests; special concrete applications.

CIVL904 Highway Materials Autumn/Spring 6 cp

CIVL905 Transportation Engineering Autumn/Spring 6 cp
Transport problems; urban travel demands; the transport planning process; travel-demand forecasting; trip generation analysis; model split analysis; trip distribution analysis; route assignment analysis; economic analysis; employment and population forecasts; evaluation of transport plans; airport engineering; classification, design standards, layout and development, terminal facilities, city-airport transport systems; urban transportation; railroad engineering; light rail rapid transit; pipeline transportation; belt conveyors - freight and passengers.

CIVL907 Civil Engineering Computations Autumn/Spring 6 cp
This subject will concentrate on software packages which are designed for application to a wide range of structural types, both two and three dimensional, including trusses, frames, plates and shells. Any combination of these components may be used with a variety of analysis and design procedures including linear elastic analysis, non-linear optimization, steel frame member design, and design and checking of reinforced concrete building frames including beams, columns, slabs, steel quantity and location, material take-off etc.

CIVL908 Advanced Soil Mechanics Autumn/Spring 6 cp
The principle of effective stress and its implications; stress paths in soil mechanics; problems of shear strength and failure; peak, residual and softened shear strengths for soil; pore pressure parameters A and B; the use of pore pressure parameters in practice; selected problems of stability and settlement, the analysis and performance of slopes, the factor of safety concept; stress analysis approaches; introduction to soil dynamics.

CIVL909 Advanced Foundation Engineering Autumn/Spring 6 cp
General principles concerning selection of foundation type on different types of soil; difficult ground conditions including collapsing and swelling soils; performance observations in geotechnical engineering; preventative and remedial measures against ground movement and slope failure; buoyancy rafts and basements; selected problems of foundation analysis and design; dam foundations; stress distribution and stress analysis; soil sampling and exploration, soil stabilisation including drainage.

CIVL910 Vibrations of Structures Autumn/Spring 6 cp

CIVL911 Finite Element Methods Autumn/Spring 6 cp
Variational principles; element shape functions, "displacement" and "stress" formulations, curved and isoparametric elements; computer programming techniques; analysis of plates, shells and axisymmetric structures; analysis of slab- and box-type bridge superstructures.

CIVL912 Engineering Hydrology Autumn/Spring 6 cp
Storm models, storm maximisation, extreme precipitation estimates, intensity-frequency duration analysis; design storms; runoff losses, infiltration models, design losses; advanced unit - hydrograph theory, synthetic unit hydrographs; hydrograph synthesis by run-off - routing; design floods for rural and urban catchments.

CIVL914 Analysis and Design of Bridge Structures Autumn/Spring 6 cp
Types of bridges; similarities between bridges and some plate-
shell-type building structures; loadings; analytical methods: load
distribution technique, orthotropic plate theory, grillage and space
frame methods; finite element method; computer program suites;
design codes; design of super-structures; design of foundations.

CIVL916 Research Topics in Civil Engineering
Autumn/Spring 6 cp
Topics will be selected from those areas of Civil Engineering in which
staff members or visiting staff members to the department, are
engaged in active research.

CIVL918 Steel Structures
Autumn/Spring 6 cp
Steel behaviour: Hot rolled and cold-formed sections. Behaviour of
hollow sections. Plastic design. Local and lateral buckling. Elastic
and inelastic buckling of elements and frames.

CIVL919 Earth Structures
Autumn/Spring 6 cp
Location of earth structures such as embankments and earth dams;
basic design considerations; analytical procedures including limit
equilibrium methods and stress analysis; soft ground tunnelling;
problems associated with earth structures including settlement
cracking and subsidence; prevention and control of sub-surface
erosion and piping; risk studies; maintenance and improvement of
earth structures.

CIVL920 Civil Engineering Hydraulics
Autumn/Spring 6 cp
Uniform flow in rivers and flood plains; open channel roughness and
flow resistance; non-uniform open channel flow; backwater curve
computation; unsteady open channel flow. Flood wave routing;
hydraulics of spillways; hydraulics of bridges and culverts; retarding
basin hydraulics; urban stormwater drainage design; sediment
transport in open channel flow.

CIVL923 Advanced Reinforced Concrete
Autumn/Spring 6 cp
Strength and behaviour of reinforced concrete members in flexure,
shear, torsion and compression; bond and anchorage; non-rectangular
sections; numerical and semi-graphical methods. Short and long-term
deflections of beams; effect of repeated loading and impact. Analysis
design and design of deep beams. Yield line method for slabs. Design code
provisions.

CIVL924 Advanced Studies in Computer Aided Design
and Draughting
Autumn/Spring 6 cp
Fundamentals of CADD; the workstation; hardware and software for
CADD configurations; operation and facilities of CADD systems;
AutoCAD, MegaCAD, Prodesign II and other Micro-CAD systems;
LISP language; programming with AutoLISP; customising AutoCAD,
creating new commands, screen menus and tablet menus; CADD
data-base, bill of materials; structural detailing; CADD management.

CIVL950 Dissertation
Double (A) 12 cp

CIVL951 Dissertation
Double (A) 24 cp

CIVL955 ME Major Thesis
Double (A) 48 cp

CIVL957 PhD Major Thesis
Double (A) 48 cp

CIVL980 Advanced Computer Applications
Autumn/Spring 6 cp
The subject content will comprise a selection from the following topics:
modelling and simulation, system analysis, optimal design of civil
and environmental engineering systems, advanced statistical techniques,
advantaged spreadsheet applications, case studies selected from civil
and environmental engineering practice, use of MATLAB,
MATHEMATICA, NASTRAN, dBASE V and similar computer
packages, C++ programming, and artificial intelligence applications.

CIVL981 Special Topic A
Autumn/Spring 6 cp
Specialist topic in civil engineering offered by members of staff,
professional engineers or visitors to the Department.

CIVL982 Special Topic B
Autumn/Spring 6 cp
Specialist topic in civil engineering offered by members of staff,
professional engineers or visitors to the Department.

ENGG951 Engineering Project Management
Autumn/Spring 6 cp
Topics will be selected from: The creative and innovative process,
aesthetics in design, life cycle design and planning. Design for
economy, maintenance, disassembly, recycling, repair and
rehabilitation. Designing with materials. Durability of materials,
components, systems and structures. Intellectual property, patents
and technology transfer. The international marketplace. Constraints
on design: standards, specifications and codes of practice. Feasibility
studies and costing. Teamwork in design. Case studies.

ENGG952 Engineering Computing
Autumn/Spring 6 cp
Assessment: Development of a computer solution to an engineering or
management information problem - 50% and two computing
assignments - 25% each.
Finite elements and finite difference methods. Computer aided
drawing, design and manufacture. Statistical computing. Management
information systems. Analysis and programming for engineering
problems.
ENVIROMENTAL ENGINEERING

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Engineering by Coursework or Research
3. Master of Engineering Practice in Environmental Engineering
4. Graduate Diploma in Engineering

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Engineering degree by research and the Doctor of Philosophy degree:

- Water quality engineering
- Environmental hydraulics and unit processes
- Pollution control engineering
- Water quality and quantity modelling of catchments, rivers and lakes
- Soil erosion and sediment transport
- Environmental pollution modelling
- Recycling and waste management
- Environmental geotechnology
- Solid-liquid separation processes
- Transport and the environment

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN ENVIRONMENTAL ENGINEERING
leading to the Honours Master of Engineering.

<table>
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<th>Number</th>
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<td>EENG920</td>
<td>Principles of Environmental Engineering</td>
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<td>EENG921</td>
<td>Wastewater Engineering</td>
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<td>EENG922</td>
<td>Water Supply Engineering</td>
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<td>ENVI920</td>
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<td>ENVI921</td>
<td>Environmental Planning</td>
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<td>CIVL908</td>
<td>Advanced Soil Mechanics</td>
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<td>CIVL912</td>
<td>Engineering Hydrology</td>
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</table>

Note 1: The coursework program will not be offered if enrolment is less than 6 students.
Note 2: Not all subjects available in any one year.

For further details, see Course Requirements below.

POSTGRADUATE PROGRAM IN ENVIRONMENTAL ENGINEERING
leading to the Master of Engineering Practice

<table>
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Electives:

- EENG920 | Principles of Environmental Engineering      | 6             |
- EENG921 | Wastewater Engineering                       | 6             |
- EENG922 | Water Supply Engineering                     | 6             |
- ENGG981 | Special Topic A                              | 6             |
- ENGG982 | Special Topic B                              | 6             |
- CIVL904 | Highway Materials                            | 6             |
- CIVL912 | Engineering Hydrology                        | 6             |
- CIVL924 | Advanced Studies in Computer Aided Design and Draughting | 6 |

Note 1: Not all subjects available in any one year.
OTHER POSTGRADUATE SUBJECTS

<table>
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<th>Number</th>
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<tr>
<td>EENG957</td>
<td>PhD Major Thesis</td>
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COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for the degree enrol in the subject EENG957.

2. HONOURS MASTER OF ENGINEERING

(a) The Honours Master of Engineering Degree by Research Thesis

Candidates enrol in the subject EENG955 ME Major Thesis.

(b) The Honours Master of Engineering Degree by combination of Coursework and Dissertation.

Candidates enrol in the subject EENG951 (24 cp) plus four subjects from the Honours Master of Engineering program.

A candidate who has a Bachelor of Engineering with Honours at Class III or higher from this University, or an approved equivalent qualification, will enrol in subjects listed in the Postgraduate Schedule and with a value of not less than 48 cp.

A candidate who has completed a degree of Bachelor of Engineering and who has not qualified for any class of Honours, or a candidate who has completed other than a Bachelor of Engineering degree, will enrol in a 96 credit point program, consisting of the subjects EENG899, plus either program (a) or program (b).

3. MASTER OF ENGINEERING PRACTICE IN ENVIRONMENTAL ENGINEERING

Candidates enrol in EENG950 (12 cp) plus three core and three elective subjects from the Master of Engineering Practice program.

Candidates would normally be expected to have a Bachelor degree in Environmental Engineering or Civil Engineering, but a Bachelor degree in the field of engineering or science together with appropriate professional experience may also be accepted.

4. GRADUATE DIPLOMA IN ENGINEERING

A candidate who has completed a degree of Bachelor of Engineering and wishes to qualify for the Graduate Diploma in Engineering will enrol in the 48 credit point subject EENG899.

Upon satisfactory completion of the subject EENG899, the candidate is eligible for the award of the Graduate Diploma in Engineering. A person who is awarded the Graduate Diploma in Engineering and who subsequently satisfies the requirements for award of the degree of Honours Master of Engineering is required by Course Rule 504(2) to surrender the testamur and associated rights for the graduate Diploma prior to receiving the Honours Master degree.

SUBJECT DESCRIPTIONS

EENG899 Advanced Topics in Environmental Engineering

Double 48 cp

One or more advanced topics taken from the following: computer aided analysis and design; computer methods; environmental hydraulics; pollution control; erosion and land rehabilitation; waste management; environmental impact assessment; environmental modelling processes; environmental geotechnology; transport and the environment; ground and mine-water.

EENG901 Project

Autumn/Spring 6 cp

First stage of a study on a selected topic, including formulation of the problem, literature study, development of study plan, and presentation of results.

EENG916 Research Topics in Environmental Engineering

Autumn/Spring 6 cp

Topics will be selected from the areas of environmental engineering in which staff members are engaged in research.

EENG920 Principles of Environmental Engineering

Autumn/Spring 6 cp

Collection and treatment of waste water; physical, chemical and biological treatment processes; measurement of pollutants; industrial and solid waste disposal; air pollution; noise pollution; environmental impact statements.

EENG921 Wastewater Engineering

Autumn/Spring 6 cp

Wastewater collection; sewer and storm drainage design; chemistry and microbiology of wastewater; effect on environment; physical, chemical and biological treatment processes and design facilities; sludge treatment and disposal; wastewater reuse; advanced wastewater treatment; treatment plant design.

EENG922 Water Supply Engineering

Autumn/Spring 6 cp

Water quality; water supply sources and demand; chemistry and microbiology of water; aeration and oxygen transfer; theory of coagulation, flocculation, sedimentation and filtration; disinfection; water softening, desalination; design of mains and service pipes; distribution of water.

EENG950 Dissertation

Double 12 cp

EENG951 Dissertation

Double 24 cp
EENG955 ME Major Thesis
Double (A) 48 cp

EENG957 PhD Major Thesis
Double (A) 48 cp

EENG981 Special Topic A
Autumn/Spring 6 cp
Specialist topic in environmental engineering offered by members of staff, professional engineers or visitors to the department.

EENG982 Special Topic B
Autumn/Spring 6 cp
Specialist topic in environmental engineering offered by members of staff, professional engineers or visitors to the department.

ENGG950 Innovation and Design
Autumn/Spring 6 cp

ENGG951 Engineering Project Management
Autumn/Spring 6 cp
Topics will be selected from economic evaluation of projects, finance and budget control, cost models and life cycle planning. Planning techniques: network and critical path analysis. Quality issues in project management. Supervision, industrial relations, health and safety, managing international projects. Management of research and development. Case studies.

ENGG952 Engineering Computing
Autumn/Spring 6 cp
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Engineering by Coursework or Research
3. Master of Engineering Practice in Materials Engineering
4. Master of Engineering Practice in Materials Welding and Joining
5. Master of Engineering Practice in Steel Processing and Products
6. Graduate Diploma in Engineering
7. Graduate Diploma in Materials Welding and Joining
8. Graduate Certificate in Engineering (Steel Processing and Products)

POSTGRADUATE PROGRAMS

Advanced Engineering Materials
Materials Processing
Materials Engineering
Materials Welding and Joining
Metallurgy
Steel Processing and Products

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Engineering degree by research and the Doctor of Philosophy degree:

- Hot deformation of high strength low alloy steels
- High temperature behaviour of engineering materials
- Development of structural steels
- Electron metallography of precipitates in ferrous alloys
- Electron microscopy of intermetallics
- Development of structures in metals by recrystallization
- Crystallographic and metallographic properties of shape memory alloys
- Development of galvanising alloys
- Structures and properties of welded metals
- Adhesive bonding
- Brazing and diffusion bonding
- Fusion welding of coated steels
- Microwave joining of metals and ceramics
- Surface engineering of materials
- Wear and surface property testing
- Ceramic coatings
- Physical vapour deposition processing of metals
- Ion implantation
- Microwave processing of materials
- Solidification
- Magnetic properties of rapidly solidified materials
- Structures and properties of metallic glasses
- Structures and properties of ceramic materials
- Structures and properties of composite materials
- Structures and properties of nanocrystalline materials
- High temperature superconductors
- Battery and fuel cell materials
- Molecular structure and properties of polymers and polymer-metal interphases
- Bath smelting technology
- Slag cleaning
- Treatment of steelworks dust
- Erosion/corrosion of smelter refractories
- Characterisation of welding furnaces
- Texture analysis of materials
- High energy ball milling

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN ADVANCED ENGINEERING MATERIALS

leading to the Honours Master of Engineering.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tr>
<td>Core</td>
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<tr>
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<tr>
<td>Electives</td>
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<tr>
<td>MATL901</td>
<td>Special Topic in Materials A</td>
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## POSTGRADUATE PROGRAM IN MATERIALS PROCESSING

leading to the Honours Master of Engineering.

<table>
<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>MA903</td>
<td>Recent Developments in Materials</td>
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<tr>
<td>MA905</td>
<td>Metallic Materials</td>
<td>6</td>
</tr>
<tr>
<td>MA906</td>
<td>Ceramics, Glasses and Refractories</td>
<td>6</td>
</tr>
<tr>
<td>MA907</td>
<td>Polymeric Materials</td>
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<tr>
<td>MA972</td>
<td>Materials Design</td>
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For further details, see Course Requirements below.

## POSTGRADUATE PROGRAM IN MATERIALS ENGINEERING

leading to the Master of Engineering Practice.

<table>
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<tr>
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<td>MA902</td>
<td>Special Topic in Materials B</td>
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<tr>
<td>MA903</td>
<td>Recent Developments in Materials</td>
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<tr>
<td>MA921</td>
<td>Formability of Sheet Material</td>
<td>6</td>
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<tr>
<td>MA932</td>
<td>Surface Engineering of Materials</td>
<td>6</td>
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<tr>
<td>MA937</td>
<td>Process Metallurgy</td>
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For further details, see Course Requirements below.

## POSTGRADUATE PROGRAM IN MATERIALS ENGINEERING

leading to the Master of Engineering Practice in Materials Welding and Joining.

<table>
<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>EG999</td>
<td>Advanced Topics in Materials Welding and Joining</td>
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<td>EG901</td>
<td>Introduction to Welding and Joining Processes</td>
<td>2</td>
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<td>EG902</td>
<td>Arc Welding Processes</td>
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<tr>
<td>EG903</td>
<td>Non-arc Joining Processes</td>
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<td>EG904</td>
<td>Welding, Cutting and Surfacing</td>
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<td>EG905</td>
<td>Behaviour of Metals during Welding - Part 1</td>
<td>2</td>
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<tr>
<td>EG906</td>
<td>Behaviour of Metals during Welding - Part 2</td>
<td>2</td>
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<tr>
<td>EG907</td>
<td>Joining of Non-metallic and Dissimilar Materials</td>
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<tr>
<td>EG908</td>
<td>Construction and Design - Part 1</td>
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<tr>
<td>EG909</td>
<td>Construction and Design - Part 2</td>
<td>2</td>
</tr>
<tr>
<td>EG910</td>
<td>Fabrication/Applications Engineering - Part 1</td>
<td>2</td>
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<tr>
<td>EG911</td>
<td>Fabrication/Applications Engineering - Part 2</td>
<td>2</td>
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<tr>
<td>EG912</td>
<td>Welding Practical - Part 1</td>
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<tr>
<td>EG913</td>
<td>Welding Practical - Part 2</td>
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<td>EG914</td>
<td>NDT/Metallographic Analysis</td>
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<tr>
<td>EG915</td>
<td>Mechanical Testing</td>
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<tr>
<td>EG916</td>
<td>Case Studies</td>
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<tr>
<td>EG917</td>
<td>Special Topics in Joining - A</td>
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</table>
POSTGRADUATE PROGRAM IN METALLURGY

leading to the Honours Master of Engineering.

<table>
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<td>ENGG918</td>
<td>Special Topics in Joining - B</td>
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<tr>
<td>ENGG919</td>
<td>Dissertation</td>
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</table>

POSTGRADUATE PROGRAM IN STEEL PROCESSING AND PRODUCTS

leading to Graduate Certificate in Engineering (Steel Processing and Products) and Master of Engineering Practice in Steel Processing and Products.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
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<tbody>
<tr>
<td>ENGG930</td>
<td>Preliminary Topics in Steel Processing and Products</td>
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<tr>
<td>TOM911</td>
<td>Introduction to Quality Concepts</td>
<td>6</td>
</tr>
<tr>
<td>ENGG931</td>
<td>Steel Products and their Production plus one elective</td>
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For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

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<th>Credit points</th>
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<tr>
<td>MATL901</td>
<td>Special Topic in Materials A</td>
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<tr>
<td>MATL903</td>
<td>Recent Developments in Materials</td>
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<tr>
<td>MATL905</td>
<td>Metallic Materials</td>
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<tr>
<td>MATL911</td>
<td>Mechanical Behaviour of Materials</td>
<td>6</td>
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<tr>
<td>MATL951</td>
<td>Performance of Materials A</td>
<td>6</td>
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<tr>
<td>MATL952</td>
<td>Performance of Materials B</td>
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<tr>
<td>MATL971</td>
<td>Prescription and Selection of Materials</td>
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</tbody>
</table>

For further details, see Course Requirements below.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in MATL957.

2. HONOURS MASTERS OF ENGINEERING

A candidate who has a degree of Bachelor of Engineering with Honours at Class III or higher from this University, or an approved equivalent qualification, will enrol in subjects listed in the Postgraduate Schedule and with a value of not less than 48 cp. Programs approved by the Department of
MATERIALS ENGINEERING PRACTICE

A candidate who has completed a relevant major study, or approved equivalent work, either as part of, or in addition to, a bachelor degree will enrol in subjects having a value of not less than 48 cp, and listed in the Postgraduate Schedule. A candidate who has not completed such a major study, or the equivalent, will enrol in subjects having a value of not less than 72 cp.

Two types of Master of Engineering Practice programs are offered - a program combining general engineering and specialist subjects (the Master of Engineering Practice in Materials Welding and Joining) and specialist coursework programs in Materials Welding and Joining and Steel Processing and Products.

The Master of Engineering Practice in Materials Engineering consists of three ENGG subjects (6 cp each) and three MATL electives (6 cp each) from the program Schedule. A 12 cp dissertation, ENGG919, is also required.

Each subject in the Program in Materials Engineering:
(a) will normally be offered over one session, and
(b) will be assessed by a combination of quizzes, assignments, practical work and examination.

The Master of Engineering Practice Program in Materials Welding and Joining is outlined in Section 4. Entry conditions and other details on the Master of Engineering Practice in Steel Processing and Products are given in section 5.

4. MASTER OF ENGINEERING PRACTICE IN MATERIALS WELDING AND JOINING

This course is offered on a one year full-time basis, with the normal entry requirement being a Bachelor of Engineering or Bachelor of Science degree. The subjects taken in the course are listed in the schedule. The course consists of a set of 18 modules (ENGG 901-918) with a total of 36 cp, together with a specialisation (ENGG 919) of 12 cp. The 2 credit point modules are presented as intensive one week (30 hour) subjects which:
(a) are offered over two sessions;
(b) are assessed by quizzes, assignments, reports on practical work and examination, as relevant to the particular module.

Approval of the Professor of Materials Welding and Joining will be required for the subject matter of ENGG 919 - Dissertation.

5. MASTER OF ENGINEERING PRACTICE IN STEEL PROCESSING AND PRODUCTS

Candidates would normally be expected to have a Bachelor Degree in Materials or Mechanical Engineering, but a bachelor degree in another appropriate field of engineering or science together with appropriate professional experience would also be accepted. The course will be offered on a modular basis, consisting of the 4 modules from the Graduate Certificate in Engineering (Steel Processing and Products), plus an additional 4 modules from the above schedule.

6. GRADUATE DIPLOMA IN ENGINEERING

A candidate who has completed a degree of Bachelor of Engineering and
(a) who has not qualified for any class of Honours, or
(b) who wishes to qualify for the Graduate Diploma in Engineering, will enrol in the 48 credit point subject MATL899.

Upon satisfactory completion of the subject MATL899 the candidate is eligible for award of the Graduate Diploma in Engineering in Materials Engineering. A person who is awarded the Graduate Diploma in Engineering and subsequently satisfies requirements for award of the degree of Honours Master of Engineering is required by Course Rule 504(2) to surrender the testamur and associated rights for the Graduate Diploma prior to receiving the Honours Master of Engineering degree.

7. GRADUATE DIPLOMA IN MATERIALS WELDING AND JOINING

This course is one year full-time in duration, or may be taken part-time on a module by module basis. The normal entry requirement is a Bachelor of Engineering degree or a Bachelor of Science or an Associate Diploma plus appropriate industrial experience.

There are 16 modules each of 30 hours duration (480 hours total). These modules are delivered within the global subject ENGG 899, Advanced Topics in Materials Welding and Joining (48 cp), and comprise 11 taught modules and 5 practical modules.

8. GRADUATE CERTIFICATE IN ENGINEERING (STEEL PROCESSING AND PRODUCTS)

A Candidate will be awarded a Graduate Certificate in Engineering (Steel Processing and Products) on the successful completion of the four 6cp subjects outlined in the Schedule. The course will be offered on a modular basis.

Subject Requirements:
See Master of Engineering Practice in Steel Processing and Products

SUBJECT DESCRIPTIONS

900-level subjects offered by other departments may be included in a coursework program subject to the approval by the Head of Department. While the subject co-ordinator has been given for most subjects it should be noted that the co-ordinator may change and any such changes will be notified to students enrolled in the subject.

ENGG899 Advanced Topics in Materials Welding and Joining
Autumn/Spring 48 cp
Components of ENGG 899 will be delivered as 16 modules.
4 modules: Welding and joining processes (arc physics, TIG, MIG, SAW, FCA, ESW, robotic welding, brazing and soldering, adhesive bonding, diffusion bonding, EB, laser, friction, flash butt, ERW)
2 modules: Behaviour of metals during welding
1 module: Materials behaviour during joining of non-metallic and dissimilar materials
2 modules: Construction and Design
ENGG930 Preliminary Topics in Steel Processing and Products

Autumn/Spring 6 cp
Topics will be covered which are designed to provide an appropriate background for the understanding of steel processing and the production of steel plate and strip. Topics will be selected from the fields of physical and mechanical behaviour of materials; microstructure; fluid mechanics, heat transfer; manufacturing as a process and observational methods.

ENGG931 Steel Products and Their Production

Autumn/Spring 6 cp
An overview of steel products and the processes used to produce them in a modern steelworks. This will include electric arc furnace steelmaking; casting; rolling; annealing; metallic coating and polymer coating.

ENGG932 Rolling Technology

Autumn/Spring 6 cp
A detailed study of hot and cold rolling and thermal treatment; methods of modelling these processes and the properties and uses of steels produced by these processes. A study of batch and continuous annealing of rolled products and the resulting modifications to properties.

ENGG933 Coating Technology

Autumn/Spring 6 cp
A detailed study of the processes of applying metallic and polymer coatings to steel strip; mathematical modelling of the processes; the chemistry of the coatings applied and the properties and uses of the coated products produced by these processes.

ENGG934 Steelmaking

Autumn/Spring 6 cp
An introduction to methods used to produce iron for steelmaking. A survey of methods of steelmaking and a discussion of the factors which might lead to the use of electric arc furnaces. A detailed study of electric arc furnace steelmaking. Types of steel and their uses.

ENGG935 Casting

Autumn/Spring 6 cp
A detailed study of the continuous casting of steel including fluid flow; heat transfer; chemical interactions and solidification; modelling of the casting process; mould design and factors influencing the quality of the cast product.

ENGG936 Control of Steel Processing

Autumn/Spring 6 cp
Review of measurement and control methods; treating the manufacturing process as a system; specific applications of measurement and control methods to steel processing from steelmaking through to casting.

ENGG950 Innovation and Design

Autumn/Spring 6 cp
3hrs per week.
Assessment: Major design project, including individual and teamwork, smaller design exercise, and final examination.

ENGG951 Engineering Project Management

Autumn/Spring 6 cp
3hrs per week.
Assessment: Comprehensive project management task, including individual and team work and final examination.
Topics will be selected from economic evaluation of projects, finance and budget control, cost models and life cycle planning. Planning techniques: network and critical path analysis. Quality issues in project management. Supervision, industrial relations, health and safety, managing international projects. Management of research and development. Case studies.

ENGG952 Engineering Computing

Autumn/Spring 6 cp
3hrs per week.

MATL899 Advanced Topics in Materials

48 cp
A program, approved by the Head of Department, of project work and studies of advanced topics in materials selected from the fields of processing, physical and mechanical behaviour, microstructure and observational methods.

MATL901/MATL902 Special Topic in Materials A/B

There are no set syllabi for these subjects. It is intended that they will be offered on a specialised materials engineering topic by members of the Department, or visitors to the Department.

MATL903 Recent Developments in Materials

Considerations of the structures, properties, technology and applications of advanced materials with emphasis on materials important to the Australian economy.

MATL905 Metallic Materials


MATL906 Ceramics, Glasses and Refractories


Chemical composition and properties of oxide and non-oxide ceramics commonly used in refractory applications, bonding of refractories, monolithic refractories and installation techniques, refractory cements, degradation examples of applications in the iron and steel industry, methods for testing refractory properties.

MATL907 Polymeric Materials

Polymers, formation and classification. Effects of structure and additives on properties. Composite materials with polymeric matrices.

MATL908 Phase Transformations

Analysis and theories of solid state phase transformations, nucleation phenomena, diffusional and diffusionless growth; application to precipitation, eutectoid, proeutectoid, martensitic and other processes.

MATL911 Mechanical Behaviour of Materials

Behaviour of ceramics, metals and polymers under stress, stress-strain relationships, time and temperature dependent phenomena.

MATL921 Formability of Sheet Material

Flow behaviour of sheet materials under uniaxial and biaxial stress; analyses of industrial forming processes.

MATL932 Surface Engineering of Materials

Surface coating processes, coating of materials with ceramics, metals and polymers; quality and performance of the product; surface heat treatment processes.

MATL937 Process Metalurgy

Ironmaking. Sintering and pelletising; time-temperature effects; phase composition; strength-reducibility relationships; mix selection; cokemaking; fundamental reactions; coke strength and reactivity; blast furnace process; Rist and Reichert diagrams; burden design and distribution; stack, bosh and hearth processes; DRI. Steelmaking. Hot metal pretreatment - thermodynamic and kinetic aspects; BOF steelmaking; top and bottom blowing; thermodynamics and kinetics of refining; vacuum methods; alloy recovery; deoxidation; continuous casting; solidification.

MATL951 Performance of Materials A

Mechanical behaviour. Elastic, plastic, anelastic and viscoelastic responses. Fracture-brittle and ductile. Fracture toughness and

**MATL952 Performance of Materials B**

**MATL955 ME Major Thesis** 48 cp

**MATL957 PhD Major Thesis** 48 cp

**MATL961 Materials Analysis A**

**MATL971 Prescription and Selection of Materials**

**MATL972 Design of Materials**
Relationship between composition, structure, properties and behavioural characteristics of industrially significant materials. Control of structure; developments in design of advanced materials for engineering applications.

**MATL992 Dissertation** 24 cp
This subject may comprise a minor research project, an extensive literature survey and analysis, or the development of improved modelling methods of materials processes.
MECHANICAL ENGINEERING

COURSES OFFERED

The following courses are available:

1. Doctor of Philosophy
2. Honours Master of Engineering (Mechanical Engineering)
3. Honours Master of Engineering (Maintenance Management)
4. Honours Master of Engineering (Systems Engineering)
5. Master of Engineering Practice (Bulk Solids and Particulate Technologies)
6. Master of Engineering Practice (Maintenance Management)
7. Master of Engineering Practice (Mechanical Engineering)
8. Graduate Diploma in Engineering (Mechanical Engineering)
9. Graduate Diploma in Engineering (Maintenance Management)
10. Graduate Diploma in Engineering (Systems Engineering)
11. Graduate Certificate in Engineering (Maintenance Management)

POSTGRADUATE PROGRAMS

Advanced Manufacturing
Applied Mechanics
Bulk Solids and Particulate Technologies
Maintenance Management
Materials Handling
Systems Engineering

CURRENT RESEARCH AREAS

The following research areas are available to candidates undertaking the Honours Master of Engineering degree by research and the Doctor of Philosophy degree.

Applied Mechanics and Heat Transfer:
Bio-mechanics
Cavitation
Computational fluid mechanics
Finite element analysis
Thermal modelling of buildings
Heat transfer
Mechanical engineering design
New algorithms in robotics
Microwave applications
Mine water flows in longwall operation
Rolling mill technology
Solar thermal system analysis and design
Solid mechanics of elastic and magneto-elastic bodies
System identification and control
Tribology - bearings, friction and wear

Manufacturing Technology and Management:
Automated QC and reliability engineering
Automated welding and joining
Chip control in automated manufacture
Disassembly technology
Expert/knowledge system in automated machining
Intelligent manufacturing systems
Japanese quality and manufacturing techniques
Monitoring/diagnosis of manufacturing processes and machinery conditions
Integrated CAD/CAM
Maintenance management
Total quality management

Materials Handling:
Bulk solids handling and prediction of bin wall loads and flowrates
Energy technology
Pneumatic and hydraulic conveying

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN ADVANCED MANUFACTURING

leading to the Honours Master of Engineering.

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<td>MECH929</td>
<td>Advanced Topics in Mechanical Engineering 2</td>
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<td>MECH934</td>
<td>Advanced Manufacturing Processes</td>
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<tr>
<td>MECH935</td>
<td>Integrated Manufacturing Systems</td>
<td>6</td>
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<tr>
<td>MECH939</td>
<td>Advanced Topics in Mechanical Engineering 3</td>
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<td>MECH949</td>
<td>Advanced Computer Control of Machines and Processes</td>
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<td>MECH950</td>
<td>Advanced Robotics</td>
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<td>MECH960</td>
<td>Industrial Quality Management</td>
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<tr>
<td>MECH961</td>
<td>Quality Improvement Systems and Implementation</td>
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<td>MECH963</td>
<td>Industrial Quality Technology</td>
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<td>MECH965</td>
<td>Quality in Engineering Design</td>
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<tr>
<td>MECH967</td>
<td>International Quality Techniques</td>
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For further details, see Course Requirements below.

**POSTGRADUATE PROGRAM IN APPLIED MECHANICS**

leading to the Honours Master of Engineering.

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<tr>
<td>MECH917</td>
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<tr>
<td>MECH919</td>
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<tr>
<td>MECH920</td>
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<tr>
<td>MECH924</td>
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<td>MECH925</td>
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<tr>
<td>MECH926</td>
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<tr>
<td>MECH928</td>
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<tr>
<td>MECH929</td>
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<tr>
<td>MECH930</td>
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<tr>
<td>MECH931</td>
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<tr>
<td>MECH933</td>
</tr>
<tr>
<td>MECH939</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

**POSTGRADUATE PROGRAM IN MATERIALS HANDLING SYSTEMS**

leading to the Honours Master of Engineering.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH951</td>
<td>Dissertation</td>
<td>24</td>
</tr>
<tr>
<td>MECH983</td>
<td>Bulk Solids Handling (Storage and Flow)</td>
<td>6</td>
</tr>
<tr>
<td>MECH913</td>
<td>Pneumatic Transport of Bulk Solids</td>
<td>6</td>
</tr>
<tr>
<td>MECH914</td>
<td>Freight Pipelines</td>
<td>6</td>
</tr>
<tr>
<td>MECH919</td>
<td>Advanced Topics in Mechanical Engineering 1</td>
<td>6</td>
</tr>
<tr>
<td>MECH927</td>
<td>Physical Processing of Bulk Solids</td>
<td>6</td>
</tr>
<tr>
<td>MECH929</td>
<td>Advanced Topics in Mechanical Engineering 2</td>
<td>6</td>
</tr>
<tr>
<td>MECH931</td>
<td>Friction, Lubrication and Wear</td>
<td>6</td>
</tr>
<tr>
<td>MECH939</td>
<td>Advanced Topics in Mechanical Engineering 3</td>
<td>6</td>
</tr>
<tr>
<td>MECH960</td>
<td>Industrial Quality Management</td>
<td>6</td>
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</tbody>
</table>

For further details, see Course Requirements below.

**POSTGRADUATE PROGRAM MECHANICAL ENGINEERING**

leading to Master of Engineering Practice.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG950</td>
<td>Innovation and Design</td>
<td>6</td>
</tr>
<tr>
<td>ENGG951</td>
<td>Engineering Project Management</td>
<td>6</td>
</tr>
<tr>
<td>ENGG952</td>
<td>Engineering Computing of</td>
<td>6</td>
</tr>
<tr>
<td>ACCY901</td>
<td>Accounting for Managers</td>
<td>6</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH956</td>
<td>Dissertation</td>
<td>12</td>
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</table>

**Stream 1: Thermofluid Mechanics**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH917</td>
<td>Air Conditioning and Refrigeration</td>
<td>6</td>
</tr>
<tr>
<td>MECH926</td>
<td>Applied Fluid Mechanics</td>
<td>6</td>
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</tbody>
</table>

**Stream 2: Engineering Dynamics and Mechanics of Solids**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH924</td>
<td>Continuum Mechanics</td>
<td>6</td>
</tr>
<tr>
<td>MECH930</td>
<td>Mechanical Vibration and Condition Monitoring</td>
<td>6</td>
</tr>
</tbody>
</table>

**Electives:**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH931</td>
<td>Friction, Lubrication and Wear</td>
<td>6</td>
</tr>
<tr>
<td>MECH949</td>
<td>Advanced Computer Control of Machines and Processes</td>
<td>6</td>
</tr>
<tr>
<td>MECH950</td>
<td>Advanced Robotics</td>
<td>6</td>
</tr>
</tbody>
</table>

**Note:**

(i) subject to approval, electives may be selected from any available 900 level subjects in the Faculty; and
(ii) not all of these electives will be offered in any one year.

For further details, see Course Requirements below.

**POSTGRADUATE PROGRAM BULK SOLIDS AND PARTICULATE TECHNOLOGIES**

leading to Master of Engineering Practice.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH913</td>
<td>Pneumatic Transport of Bulk Solids</td>
<td>6</td>
</tr>
<tr>
<td>MECH914</td>
<td>Freight Pipelines</td>
<td>6</td>
</tr>
<tr>
<td>MECH927</td>
<td>Physical Processing of Bulk Solids</td>
<td>6</td>
</tr>
<tr>
<td>MECH962</td>
<td>Bulk Solids Characterisation &amp; Particulate Mechanics</td>
<td>6</td>
</tr>
<tr>
<td>MECH983</td>
<td>Bulk Solids Handling (Storage and Flow)</td>
<td>6</td>
</tr>
<tr>
<td>MECH984</td>
<td>Belt Conveying</td>
<td>6</td>
</tr>
<tr>
<td>MECH985</td>
<td>Dust and Fume Systems</td>
<td>6</td>
</tr>
<tr>
<td>MECH986</td>
<td>Instrumentation and Control Systems for Bulk Solids</td>
<td>6</td>
</tr>
<tr>
<td>MECH987</td>
<td>Advanced Topics in Bulk Solids &amp; Particulate Technologies 1</td>
<td>6</td>
</tr>
<tr>
<td>MECH988</td>
<td>Advanced Topics in Bulk Solids &amp; Particulate Technologies 2</td>
<td>6</td>
</tr>
<tr>
<td>MECH989</td>
<td>Advanced Topics in Bulk Solids &amp; Particulate Technologies 3</td>
<td>6</td>
</tr>
<tr>
<td>MECH993</td>
<td>Maintenance Management of Bulk Handling Systems</td>
<td>6</td>
</tr>
<tr>
<td>MECH994</td>
<td>Mechanical Handling Systems</td>
<td>6</td>
</tr>
<tr>
<td>MECH995</td>
<td>Bulk Solids Handling (Systems and Design)</td>
<td>6</td>
</tr>
<tr>
<td>MECH990</td>
<td>Project in Bulk Solids and Particulate Technologies</td>
<td>12</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

**POSTGRADUATE PROGRAM IN MAINTENANCE MANAGEMENT**

leading to the Graduate Certificate in Engineering (Mtce Mgt), Graduate Diploma in Engineering (Mtce Mgt), the Master of Engineering Practice (Mtce Mgt) and the Honours Master of Engineering (Mtce Mgt).

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT949</td>
<td>Statistical Thinking</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td>ENGG921</td>
<td>Engineering Data Reduction and Error Analysis</td>
</tr>
<tr>
<td>MECH470</td>
<td>Maintenance Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH972</td>
<td>Condition Based Maintenance</td>
<td>6</td>
</tr>
<tr>
<td>MECH973</td>
<td>Systems Engineering and Life Cycle Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT906</td>
<td>Managing People at Work</td>
<td>6</td>
</tr>
</tbody>
</table>

Graduate Diploma in Engineering (Mtce Mgt)

Completion of Graduate Certificate plus:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH971</td>
<td>Systems Analysis for Maintenance</td>
<td>6</td>
</tr>
<tr>
<td>MECH973</td>
<td>Systems Engineering and Life Cycle Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH976</td>
<td>Maintenance System Design and Management</td>
<td>6</td>
</tr>
</tbody>
</table>
Plus 1 electives to be selected from the list below.

Master of Engineering Practice (Mtce Mgt)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT942</td>
<td>Design and Analysis for Quality Control</td>
<td>6</td>
</tr>
<tr>
<td>MECH971</td>
<td>Systems Analysis for Maintenance</td>
<td>6</td>
</tr>
<tr>
<td>MECH973</td>
<td>Systems Engineering and Life Cycle Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH976</td>
<td>Maintenance System Design and Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT906</td>
<td>Managing People at Work</td>
<td>6</td>
</tr>
<tr>
<td>MECH956</td>
<td>Dissertation</td>
<td>12</td>
</tr>
</tbody>
</table>

Plus 1 elective to be selected from the list below.

Honours Master of Engineering (Mtce Mgt)
Core

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH951</td>
<td>Dissertation</td>
<td>24</td>
</tr>
<tr>
<td>MECH971</td>
<td>Systems Analysis for Maintenance</td>
<td>6</td>
</tr>
<tr>
<td>MECH973</td>
<td>Systems Engineering and Life Cycle Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH976</td>
<td>Maintenance System Design and Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT906</td>
<td>Managing People at Work</td>
<td>6</td>
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</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY901</td>
<td>Accounting for Managers</td>
<td>6</td>
</tr>
<tr>
<td>BUSS903</td>
<td>Information Systems for Managers</td>
<td>6</td>
</tr>
<tr>
<td>LAW960</td>
<td>Legal Studies for Professionals</td>
<td>6</td>
</tr>
<tr>
<td>MECH940</td>
<td>Rotational Drives and Transmissions</td>
<td>6</td>
</tr>
<tr>
<td>MECH972</td>
<td>Condition Based Maintenance</td>
<td>6</td>
</tr>
<tr>
<td>MECH974</td>
<td>Information Systems in Maintenance Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH976</td>
<td>Maintenance System Design and Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH977</td>
<td>Advanced Topics in Maintenance</td>
<td>6</td>
</tr>
<tr>
<td>MGMT912</td>
<td>Organisation Structure and Control</td>
<td>6</td>
</tr>
<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
<td>6</td>
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</tbody>
</table>

For further details, see Course Requirements below.

**POSTGRADUATE PROGRAM IN SYSTEMS ENGINEERING**

leading to the Graduate Diploma in Engineering (Systems Engineering) and the Honours Master of Engineering (Systems Engineering).

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>MECH973</td>
<td>Systems Eng. and Life Cycle Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH980</td>
<td>Functional Analysis and Risk Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH981</td>
<td>Concurrent Design Management</td>
<td>6</td>
</tr>
<tr>
<td>ENGG921</td>
<td>Eng. Data Reduction &amp; Error Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MGMT906</td>
<td>Managing People at Work</td>
<td>6</td>
</tr>
<tr>
<td>MGMT979</td>
<td>Financial Decision Making</td>
<td>6</td>
</tr>
</tbody>
</table>

Plus 2 electives to be selected from the list below

Honours Master of Engineering (Systems Engineering)
Core

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH971</td>
<td>Systems Analysis for Maintenance</td>
<td>6</td>
</tr>
<tr>
<td>MECH974</td>
<td>Information Systems in Maintenance Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH951</td>
<td>Dissertation</td>
<td>24</td>
</tr>
</tbody>
</table>

plus 2 electives to be selected from the list below.

Electives

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT921</td>
<td>Managerial Finance</td>
<td>6</td>
</tr>
<tr>
<td>MECH960</td>
<td>Industrial Quality Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH974</td>
<td>Information Systems in Maintenance Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH971</td>
<td>Systems Analysis for Maintenance</td>
<td>6</td>
</tr>
<tr>
<td>MECH976</td>
<td>Maintenance System Design and Management</td>
<td>6</td>
</tr>
<tr>
<td>LAW960</td>
<td>Law for Managers</td>
<td>6</td>
</tr>
<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
<tr>
<td>ACCY901</td>
<td>Accounting for Managers</td>
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<tr>
<td>MGMT912</td>
<td>Organisation Structure and Control</td>
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<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
<td>6</td>
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<tr>
<td>MECH965</td>
<td>Quality in Engineering Design</td>
<td>6</td>
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</tbody>
</table>
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<table>
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<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>ENGG922</td>
<td>Statistical Process Control in Manufacturing and Service Industries</td>
<td>6</td>
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</table>

For further details, see Course Requirements below.

### OTHER POSTGRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>MECH899</td>
<td>Advanced Topics in Engineering</td>
<td>48</td>
</tr>
<tr>
<td>MECH955</td>
<td>ME Major Thesis</td>
<td>48</td>
</tr>
<tr>
<td>MECH957</td>
<td>PhD Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

### COURSE REQUIREMENTS

1. **DOCTOR OF PHILOSOPHY**

Candidates for this degree enrol in MECH957 PhD Major Thesis (48 cp).

2. **HONOURS MASTER OF ENGINEERING (Mechanical)**

A candidate who has a Bachelor of Engineering with Honours Class III or higher from this University, or an approved equivalent qualification, will enrol in subjects listed in the Postgraduate Schedule and with a minimum value of 48 cp. Approved programs comprise:

(i) the subject MECH955 ME Major Thesis, for full-time and part-time candidates, or
(ii) the subject MECH951 Dissertation plus 24 cp of coursework according to one of the 3 approved programs: Advanced Manufacturing, Applied Mechanics; Materials Handling Systems.

3. **HONOURS MASTER OF ENGINEERING (Maintenance Management)**

Direct entry to the Honours Master of Engineering (Mtce Mgt) course will require a tertiary degree of approved standard from a recognised institute, eg a BE (Hons) degree or equivalent. Maintenance engineers having completed their Graduate Diploma degree (Maintenance Management) will be given appropriate credits for the course they already have completed. Credits may also be approved for other qualifications or experience for suitable applicants.

In order to then obtain an Honours Masters of Engineering (Mtce Mgt), the candidate must have a Graduate Diploma in Engineering (Mtce Mgt) or equivalent and have completed successfully a further 48 cp. These must consist of four subjects selected from 2 core and 2 elective subjects and 24 cp research project leading to a dissertation.

The research project required for the honours master degree will run in parallel with the formal coursework throughout the anticipated last year of a candidate's study. Students will be able to choose a suitable investigation from the current research activities at any of the Departments involved.

4. **HONOURS MASTER OF ENGINEERING (Systems Engineering)**

Direct entry to the Honours Master of Engineering (Systems Engineering) course will require a tertiary degree of approved standard from a recognised institute, eg. a BE (Hons) degree or equivalent. Engineers having completed their Graduate Diploma degree (Maintenance Management/ Engineering) will be given appropriate credits for the course they already have completed. Credits may also be approved for other qualifications or experience for suitable applicants.

To obtain an Honours Master of Engineering (Systems Engineering), the candidate must have a Graduate Diploma in Engineering (Systems Engineering) or equivalent, and have completed successfully a further 48 cp. These must consist of 4 subjects selected from 2 core and 2 elective subjects and a 24 cp research project leading to a dissertation.

The research project required for the Honours Master degree will run in parallel with the formal coursework throughout the anticipated last year of candidate's study.

5. **MASTER OF ENGINEERING PRACTICE (Bulk Solids and Particulate Technologies)**

The normal entry requirement is a Bachelor of Engineering degree, or a Bachelor of Science degree, or an Associate Diploma in a relevant field, plus appropriate industrial experience.

A candidate will be awarded a Master of Engineering Practice (Bulk Solids and Particulate Technologies) on successful completion of 48 cp. The subjects MECH983, MECH995 and MECH990 (12 cp subject) are compulsory, the remaining 24 cp will be made up of 4 subjects from the electives listed in the schedule. Apart from MECH990, each subject is run on a modular basis comprising 5 days of lectures, laboratory demonstrations, case studies and problem solving, followed by assessable tasks.

The program is offered on a modular basis over 2 years (ie. part-time) and is a joint degree with the University of Newcastle. This is a full fee paying course.

6. **MASTER OF ENGINEERING PRACTICE (Maintenance Management)**

The normal entry requirement is a Bachelor of Engineering or equivalent qualification. Students who complete other Maintenance Management courses with a credit average may apply for entry to the Master of Engineering Practice course. Appropriate advanced standing will be determined by the Course Coordinator.
7. MASTER OF ENGINEERING PRACTICE (Mechanical Engineering)

This course will be offered to graduates who have obtained a level equivalent to the BE at the University of Wollongong. The minimum duration of the full-time course will be one year, i.e. 48 cp.

8. GRADUATE DIPLOMA IN ENGINEERING (Mechanical Engineering)

A candidate who has completed a degree of Bachelor of Engineering, and
(a) who has not qualified for any class of Honours; or
(b) who wishes to qualify for the Graduate Diploma in Engineering.

will enrol in the 48 cp subject MECH899.

Upon satisfactory completion of the subject MECH899, the candidate is eligible for award of the Graduate Diploma in Engineering (Mechanical).

A person who is awarded the Graduate Diploma in Engineering and subsequently satisfies requirements for award of the degree of Honours. Master of Engineering is required by Course Rule 504(2) to surrender the testament and associated rights for the graduate diploma prior to receiving the honors masters degree.

9. GRADUATE DIPLOMA IN ENGINEERING (Maintenance Management)

Entry to this Diploma normally will require an approved Bachelor degree from this University or an approved equivalent qualification. However, maintenance managers/engineers without tertiary qualifications in engineering but with significant industrial experience, will also be considered for admission to a limited number of places.

A candidate will be awarded a Graduate Diploma in Engineering (Mtcce Mgt) on successful completion of 48 cp, 24 cp of the core is compulsory, made up of four 6 cp course work subjects - one subject from each of the Departments of Management and Mathematics, and two from Mechanical Engineering. The other 24 cp will come from four 6 cp electives.

Students completing the Graduate Diploma in Engineering (Mtcce Mgt) at the University of Wollongong will have the option to enter into the Honours Master of Engineering (Mtcce Mgt).

10. GRADUATE DIPLOMA OF ENGINEERING (Systems Engineering)

Direct entry to the Graduate Diploma of Engineering (Systems Engineering) course will require a tertiary degree of approved standard from a recognised institute, e.g. a BE degree or equivalent. Credits may be granted for other qualifications or experience of suitable applicants.

Senior managers/engineers without tertiary qualifications in engineering but with significant industrial experience, will also be considered for admission to a limited number of places.

A candidate will be awarded a Graduate Diploma in Engineering (Systems Engineering) on successful completion of 48 cp. Thirty-six cp of the core is compulsory, made up of six 6 cp coursework subjects. The other 12 cp will come from two 6 cp electives, selected from the list above.

11. GRADUATE CERTIFICATE IN ENGINEERING (Maintenance Management)

Usual entry requirement is a Bachelor of Engineering or relevant degree. Other qualifications together with significant relevant experience in the area will also be considered. Applicants are required to submit a CV with their application and where relevant a supporting letter from their employer.

SUBJECT DESCRIPTIONS

Where textbooks and/or subject co-ordinators are not specified, details will be made available at a later date.

Each of the subjects described below (with the exception of MECH899, MECH951, MECH955, MECH956 and MECH957) has 3 contact hours per week for one session. Not all subjects will be offered in every year.

Unless stated, assessment will involve a final examination (with the exception of MECH899, MECH951, MECH955, MECH956 and MECH957). Other short examinations, assignments, projects and group tasks may also be assessed.

Subjects offered by other Departments will be acceptable for the Masters degree course in Mechanical Engineering subject to the approval by the Head of the Department.

ENGG921 Engineering Data Reduction and Error Analysis
Autumn/Spring 6 cp
Probability distributions: normal, binomial, Weibull. Testing of hypothesis, error analysis, sampling techniques, experimental design, correlation and auto-correlation, introduction to maintenance analysis data, and control charts.

ENGG922 Statistical Process Control in Manufacturing and Service Industries
Autumn/Spring 6 cp

ENGG950 Innovation and Design
Autumn/Spring 6 cp

ENGG951 Engineering Project Management
Autumn/Spring 6 cp
Topics will be selected from economic evaluation of projects, finance and budget control, cost models and life cycle planning. Planning techniques: network and critical path analysis. Quality issues in project management. Supervision, industrial relations, health and
safety, managing international projects. Management of research and development. Case studies.

ENGG952 Engineering Computing
Autumn/Spring 6 cp

MECH899 Advanced Topics in Engineering
Double 48 cp
Students will normally take a selection of topics at advanced level. The selection of the topics will be subject to the approval of the Head of the Department in which the student wishes to enrol and subsequently specialise.

MECH903 Biomechanical Engineering
Autumn/Spring 6 cp
This subject introduces a selection of advanced quantitative methods used in biomechanical assessment of human movements. Topics include three-dimensional dynamics, modelling techniques (including finite element, simulation and optimisation).

MECH913 Pneumatic Transport of Bulk Solids
Autumn/Spring 6 cp
Classification and selection of transport systems; flow patterns; pressure drop, minimum transport velocities; design parameters and examples; feeding and disengaging methods.

MECH914 Freight Pipelines
Autumn/Spring 6 cp
Economic analysis of freight pipeline systems (hydraulic and capsule) for long distance transportation; comparison with alternative modes of transport; basic mechanics and rheology of fluid particle systems and applications to pumping bulk solids over a range of mass concentrations; pressure losses in pipelines; equipment performance characteristics; fundamentals of capsule transportation employing hydraulic or pneumatic (gas) means as the energy source, equipment design and selection.

MECH917 Air Conditioning and Refrigeration
Autumn/Spring 6 cp
Air conditioning of buildings; design heat load calculation; plant sizing and design; refrigeration plant components; thermo-dynamic analysis and design.

MECH919 Advanced Topics in Mechanical Engineering
1 Autumn/Spring 6 cp
There is no set syllabus for this subject. It is intended that it normally be offered on a specialised mechanical engineering topic given by members of the Department, visiting academic staff or engineering consultants.

MECH920 Numerical Methods in Mechanical Engineering
Autumn/Spring 6 cp
Studies using finite difference and boundary element techniques. Topics are selected from the following areas of Mechanical Engineering: Aerodynamics, boundary layer flow, elasticity, gas dynamics, heat transfer, hydraulics and hydrodynamics.

MECH924 Continuum Mechanics
Autumn/Spring 6 cp
An introduction to tensor analysis, classical theory of elasticity, fluid mechanics, thermodynamics of solids, thermoelasticity, viscoelasticity, plasticity, finite deformation theory.

MECH925 Advanced Fluid Power
Autumn/Spring 6 cp
Fluid power components; circuit design: analysis of transmission, valve-controlled and feedback systems; electronic controls; vibration and transient response.

MECH926 Applied Fluid Mechanics
Autumn/Spring 6 cp
A study of applied fluid mechanics which will include the analysis, design and control of a selection of fluid flow systems in industry.

MECH927 Physical Processing of Bulk Solids
Autumn/Spring 6 cp
Bulk solids description and characterisation; crushing, grinding, thickening, separation, precipitation, filtration, blending, tabletting, briquetting and agglomeration, sizing and classification; introduction to beneficiation; drying; intermediate processing and handling; control and instrumentation; dust generation and abatement.

MECH928 Finite Element Techniques in Mechanical Engineering
Autumn/Spring 6 cp

MECH929 Advanced Topics in Mechanical Engineering
2 Autumn/Spring 6 cp
As for MECH919.

MECH930 Mechanical Vibration and Condition Monitoring
Autumn/Spring 6 cp

MECH931 Friction, Lubrication and Wear
Autumn/Spring 6 cp

MECH933 Solar Energy
Autumn/Spring 6 cp
Principles and techniques applicable to the analysis and design of solar thermal energy systems. Solar radiation; transmission and absorption by collectors; analysis and design of collectors; energy storage; system thermal calculations; solar process economics.

MECH934 Advanced Manufacturing Processes
Autumn/Spring 6 cp
Modelling of advanced manufacturing processes; manufacturing cost analysis; productivity and quality methods and measurements in manufacture; computer-assisted process planning; manufacturing optimisation; trends in advanced manufacturing processes, recycling aspects.

MECH935 Integrated Manufacturing Systems
Autumn/Spring 6 cp
CIM concepts and applications, FMS, computer-process interfacing, monitoring and control; computer-aided quality control; component handling systems; human interface in the manufacturing system; future trends, global and environmental aspects.

MECH939 Advanced Topics in Mechanical Engineering
3 Autumn/Spring 6 cp
As for MECH919.

MECH949 Advanced Computer Control of Machines and Processes
Autumn/Spring 6 cp
Advanced modelling and control of multivariable systems: performance of multivariable control systems; optimal control theory; robust control systems; design, implementation and evaluation of digital control systems.
MECH950 Advanced Robotics
Autumn/Spring 6 cp
Design of advanced robot structures and control systems, modelling of sensor-based robot systems, application of artificial intelligence in robot control.

MECH951 Dissertation 24 cp

MECH955 ME Major Thesis 48 cp

MECH956 Dissertation 12 cp

MECH957 PhD Major Thesis 48 cp

MECH960 Industrial Quality Management
Autumn/Spring 6 cp
Topics to be covered include: process capability; statistical process control and capability case-studies; JITT (Just In Time) & Quality; team working and worker involvement (SGIA); improvement management; education and training for quality; introduction to quality of design, reliability, safety and product liability; Total Productive Maintenance v TQC; activity based costing and TQM; quality information systems and key performance indicators.

MECH961 Quality Improvement Systems and Implementation
Autumn/Spring 6 cp
Basic quality philosophy as per Feigenbaum, Juran, Deming and Crosby - emphasis on system, cost and people improvement; the economics of quality; ISO9000 Quality Systems - their role in TQM; introduction to Practical Industrial Quality Systems (PIQS) (Kaizen, Ishikawa, Improvement Methodology and tools); quality function deployment; measurement of conformance and prevention of non-conformance; team approaches to problem solving - the roles of management; suppliers and customers; implementation examples through case-studies of prominent organisations; audit procedures for TQM.

MECH963 Industrial Quality Technology
Autumn/Spring 6 cp
Appraisal systems: Vision, CNC measuring machines, in-process, in-cycle, and post process gauging; integrated quality in automated manufacturing processes; quality information systems; Measurement of geometry, size and surface texture; Calibration systems; The use of integrated SPC and expert systems.

MECH965 Quality in Engineering Design
Autumn/Spring 6 cp
Design as the source of quality; The Concurrent Engineering Approach; Value engineering; failure mode and effects analysis; organisation for design quality; design case studies in Taguchi methods and quality function deployment; design standards, testing, reliability, safety maintainability, product liability, product certification; configuration management; contract and design reviews.

MECH967 International Quality Techniques
Autumn/Spring 6 cp
The historical evolution, development, application methodology and integration of these techniques within the cultural, political and industrial environment of various regions/countries are addressed, in the context of achieving World’s Best Practice. Techniques of emerging importance in both the manufacturing and service fields, such as self-diagnosis, benchmarking, business process re-engineering, concurrent engineering, quality function deployment, and software quality management. The quality award system in use in each region will be studied and compared.

MECH970 Maintenance Management
Autumn/Spring 6 cp
Overall perspective for maintenance in business context; Maintenance philosophies; Evolution of maintenance management; Cost and profit drivers in maintenance; Maintenance organisation department structure (Resource and administration); Maintenance documentation and computer control; Quality assurance in maintenance; Implementation of maintenance planning; Human factors and motivation skills in maintenance environment; TQM Aspects improvement methodology (Plan-Do-Check-Act).

MECH971 Systems Analysis for Maintenance
Autumn/Spring 6 cp
Maintenance Concept Design Methodology, Reliability Theory, Data Recordings and Analysis, Identification and Analysis of Failure Modes, Maintenance Rule Selection, Preventative Replacement Policies, Optimisation of Inspection Frequencies, Clustering of Tasks, Opportunity Maintenance, Specification of Resource Requirements.

MECH972 Condition Based Maintenance
Autumn/Spring 6 cp
Overview of fault diagnosis techniques (electrical-mechanical-computer); Identification of critical plant, failure types-modes. Diagnosis documentation; Maintenance strategies; Target areas for successful applications; Sensor technology overview; Condition monitoring strategy, techniques and organisation; Automation aspects in condition monitoring; Expert-AI systems; Costs and problems; Decisions on the periodicity of condition monitoring; Case studies.

MECH973 Systems Engineering and Life Cycle
Management
Autumn/Spring 6 cp

MECH974 Information Systems in Maintenance Management
Autumn/Spring 6 cp
Analysis of maintenance information needs, data collection, types, and uses, Human factors in information systems; Computer information systems - a summary with a view to maintenance; Computer system selection for maintenance organisation, networking, economics; Maintenance planning, Creation of user application software; Survey and critical assessment of standard available maintenance related software packages.

MECH976 Maintenance System Design and Management
Autumn/Spring 6 cp
Human aspects of maintenance and reliability; ergonomics; work measurement, methods engineering and activity sampling applied to maintenance activities; estimation of maintenance times; maintenance facilities layout. Planning for shutdowns and overhauls; inventory control for maintenance, inventory control systems, configuration management, warehouse control, evaluation of maintenance performance, improving maintenance performance, TPM.

MECH977 Advanced Topics in Maintenance 1
Autumn/Spring 6 cp
There is no set syllabus for this subject. It is intended that it normally be offered on a specialised maintenance topic given by members of the Department, visiting academic staff or engineering consultants.

MECH978 Advanced Topics in Maintenance 2
Autumn/Spring 6 cp
There is no set syllabus for this subject. It is intended that it normally be offered on a specialised maintenance topic given by members of the Department, visiting academic staff or engineering consultants.

MECH980 Functional Analysis and Risk Management
Autumn/Spring 6 cp
Requirement analysis of systems and components; functional requirements and constraints analysis; Functional analysis and allocation; Parametric analysis and decision trees. Sensitivity analysis and control. Risk trade-offs.

MECH981 Concurrent Design
Autumn/Spring 6 cp
System integration from the functional to the physical stage. Project planning. Risk management. Management of configuration, interface. Human engineering task, operational sequencing, personnel requirements, error and safety analysis.
MECH982 Bulk Solids Characterisation & Particulate Mechanics  
**Autumn/Spring** 6 cp  
Concepts of particle mechanics (failure criteria, models to represent such criteria as particle size and distributions, particle shape, compressibility, permeability, internal friction, cohesion, adhesion, wall friction); concepts of flow properties of bulk solids for equipment design; flow property measurement techniques; use of computer software to analyse and present experimental data for use in design.

MECH983 Bulk Solids Handling (Storage and Flow)  
**Autumn/Spring** 6 cp  
Basic concepts of storage; flow and feeding of bulk solids; use of flow properties to determine hopper geometries; bin wall loads; feeding and discharge systems; feeder loads; chute design; flowrate prediction; segregation and blending; dust suppression systems; stock pile systems; case studies.

MECH984 Belt Conveying  
**Autumn/Spring** 6 cp  
Belt conveying systems; properties of conveyor belting; tension analyses (static and dynamic); drive systems; loading and unloading belts; trajectory prediction; transfer chute design novel belt systems; economic analyses.

MECH985 Dust and Fume Systems  
**Autumn/Spring** 6 cp  
Basic concepts; terminology and problems; health and safety regulations; dust characterisation; fan performance characteristics; capture velocities and minimum transport velocities; hood and enclosure design; duct design; dust generation and its minimisation; filtration systems; design of dust handling and disposal systems; occupational health and safety; dust explosion; case studies.

MECH986 Instrumentation and Control Systems for Bulk Solids  
**Autumn/Spring** 6 cp  
Transducer types and their specification and applications; dynamic response of systems; speed measurement and control; mass flow rate measurement; belt weighing; weigh belt feeders; continuous and batch weighing systems; bin weighing systems and structural implications; system accuracy; interfacing with PLC’s and computers; case studies.

MECH987 Advanced Topics in Bulk Solids & Particulate Technologies 1  
**Autumn/Spring** 6 cp  
There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

MECH988 Advanced Topics in Bulk Solids & Particulate Technologies 2  
**Autumn/Spring** 6 cp  
There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

MECH989 Advanced Topics in Bulk Solids & Particulate Technologies 3  
**Autumn/Spring** 6 cp  
There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

MECH990 Project in Bulk Solids and Particulate Technologies  
**Autumn/Spring** 12 cp  
Prepare a thesis on an approved topic related to bulk solids and/or particulate technologies. Normally the thesis will cover work performed in the workplace and additional supervision by an industry representative.

MECH993 Maintenance Management of Bulk Handling Systems  
**Autumn/Spring** 6 cp  
Maintenance function principles and objectives; reliability and maintainability; maintenance planning; maintenance strategy for plant - a systems approach; maintenance and information support; failure analysis; maintenance organisation; maintenance control and documentation; human resource management; total production maintenance, auditing industrial maintenance systems.

MECH994 Mechanical Handling Systems  
**Autumn/Spring** 6 cp  
Loss factor of transport; economic analysis of conveying and transportation systems; aspects of particulate mechanics in relation to mechanical handling systems; design concepts and performance criteria of mechanical conveying and feeding equipment employed in process plants. Performance analysis and evaluation of mechanical loading and unloading systems such as used in ship transport.

MECH995 Bulk Solids Handling (Systems and Design)  
**Autumn/Spring** 6 cp  
Bin wall loads for symmetric and eccentric discharge; analysis of dynamic effects, the 'silo quaking' problem; wall roughness, friction and wear; feeder design principles; performance analysis of a range of feeders for bulk solids; flow promotion; blending and mixing; flow of fine powders; transfer chutes; vibration of bulk solids.
MINING ENGINEERING

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Engineering by Coursework or Research
3. Master of Mining Management
4. Graduate Diploma of Mining Management
5. Graduate Diploma in Engineering

POSTGRADUATE PROGRAMS

Mining Engineering
Mining Management

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Engineering degree by research and the Doctor of Philosophy degree:

- Roof bolting studies
- Longwall mining
- Rock mechanics
- Surface mining
- Mine simulation, planning and design
- Mine safety
- Geostatistics
- Computer applications in mining engineering
- Mine water
- Environmental impact of mining

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAMS IN MINING MANAGEMENT

leading to the Graduate Diploma of Mining Management or the Master of Mining Management.

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<td>MINE942</td>
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<td>MINE943</td>
<td>Drilling and Blasting</td>
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<td>MINE944</td>
<td>Application of Computers in the Mineral Industry</td>
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<td>MINE945</td>
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<td>MINE946</td>
<td>Placer Technology</td>
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<td>MINE947</td>
<td>Introductory Computing and Statistics for Geologists and Mining Engineers</td>
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<td>MINE948</td>
<td>Mine Ventilation and Environment</td>
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<td>MINE952</td>
<td>Geostatistics and Mine Planning</td>
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<tr>
<td>MINE953</td>
<td>Mine Water - Origin, Inflow Predictions and Control</td>
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<td>MINE954</td>
<td>Strata Control - from First Principles to Practice</td>
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<td>MINE956</td>
<td>Mineral Law</td>
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<td>MINE962</td>
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<td>MINE971</td>
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<td>Export Marketing for the Mining Industry</td>
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<td>MINE973</td>
<td>Mine Evaluation and Project Assessment</td>
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<td>MINE975</td>
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<td>MINE976</td>
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<td>MINE977</td>
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<td>GEOS921</td>
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For further details see Course Requirements below.
POSTGRADUATE PROGRAMS IN MINING ENGINEERING

leading to the Honours Master of Engineering.

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<td>MINE902</td>
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<td>MINE903</td>
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<td>MINE904</td>
<td>Rock Mechanics</td>
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<td>MINE905</td>
<td>Environmental Control in Mines</td>
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<td>MINE906</td>
<td>Mining Engineering Techniques</td>
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<td>MINE911</td>
<td>Mine Service Engineering</td>
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<td>MINE953</td>
<td>Mine Water - Origin, Inflow Predictions and Control</td>
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For further details see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

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<td>MINE901</td>
<td>Transportation of Minerals and Personnel</td>
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<td>MINE907</td>
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<td>MINE908</td>
<td>Mines Fires and Explosions</td>
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<td>MINE909</td>
<td>Mine Subsidence</td>
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<td>MINE950</td>
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<td>MINE955</td>
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<td>MINE957</td>
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</tbody>
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COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in MINE957.

2. HONOURS MASTER OF ENGINEERING

The Department of Civil, Mining and Environmental Engineering offers graduates the following opportunities to conduct research or pursue an advanced course of study in Mining Engineering:

(a) The Honours Master of Engineering Degree by Research Thesis

The Honours Master of Engineering Degree by research thesis is intended for those engineers qualified and interested in specific problems.

(b) The Honours Master of Engineering Degree by Combination of Coursework and Research Thesis

This is the normal course for the younger Mining Engineer, which provides him or her training in research and also allows greater depth of understanding in specialist postgraduate areas.

Aims

The programs of study allow the student to combine specialist postgraduate subjects according to his or her undergraduate background with project work. It is intended to strengthen professional training in a context of problems and policies which reach beyond the conventionally recognised boundaries of single disciplines. Elective postgraduate subjects and introduction to disciplines in which the student has no experience, are available.

The program for the Honours Master of Engineering Degree has two explicit aims:

(i) Specialist Training. Postgraduate training is provided for students with appropriate backgrounds, to enable professional development in their particular discipline. This is achieved by providing access to existing postgraduate courses already offered;

(ii) Interdisciplinary Training. An interdisciplinary framework is provided, within which postgraduate training in Mining Engineering may be integrated with other disciplines. This is achieved by the provisions of limited access to concentrated study in other disciplines.

Entry Requirements

A candidate who has a Bachelor of Engineering with Honours at Class III or higher from this University, or an approved equivalent qualification, will enrol in subjects listed in the Postgraduate Schedule and with a value of not less than 48 credit points.

Programs approved by the Department of Civil, Mining and Environmental Engineering comprise:

(i) the subject MINE955 Major Thesis; or
(ii) the subject MINE951 Dissertation plus four subjects from the list MINE901 through MINE911; or
(iii) the subject MINE950 Dissertation plus six subjects from the list MINE901 through MINE911.

3 & 4. MINING MANAGEMENT PROGRAM

The Graduate Diploma in Mining Management and the Master in Mining Management are intended for mining industry personnel who wish to improve their employment opportunities. It is anticipated that the majority will have backgrounds in either engineering or science, and will take the opportunity to
develop their knowledge of management through a course of study orientated towards a career in the mining industry.

Particular emphasis is to be placed on making the courses available to candidates in remote locations, and it is intended that the courses be offered in a modular form comprising one week of intensive formal coursework supplemented by pre-coursework and post-coursework assignments.

As many potential candidates are located in remote regions they will welcome the unique opportunity offered by an external postgraduate course. The courses are available on a full fee paying basis.

The courses aim to satisfy the continuing education needs of those minerals sector personnel wishing to upgrade and expand their credentials by presenting them with the opportunity to further their technical understanding of practices within the minerals industry whilst gaining valuable skills in Mining Management, Industrial Relations, Marketing and Financial Control. The management skills acquired from the courses will be a sound foundation for future executive positions.

Graduate Diploma in Mining Management
Candidates will be required to complete a total of 48 credit points: of which 24 credit points may be from 300/400 level subjects and 24 credit points from 900 level subjects. Advanced standing of up to 24 credit points of 300/400 level work may be granted on the basis of previous qualifications. This course will be offered on a part-time or modular basis.

Entry Requirements
Entry into the Graduate Diploma in Mining Management requires a three year degree or diploma in the fields of science and technology or commerce and economics with the qualifications of candidates for entrance to be assessed by the Head of the Department of Civil, Mining and Environmental Engineering. Candidates not meeting the requirements fully may be asked to complete a foundation program of 300 and 400 level subjects.

Master in Mining Management
This course will be offered on a part-time or module basis and will require a minimum study period of one year. Candidates will be required to complete 48 credit points from 900 level subjects.

Entry Requirements
Entry into the Master of Mining Management requires a four year degree of appropriate standard from a recognised tertiary institution. Candidates not meeting these requirements may be asked to complete a foundation program consisting of 300 and 400 level subjects. Following the successful completion of the Graduate Diploma in Mining Management, a candidate will have the option of entering into the Master of Mining Management; where prior to the conferring of the degree of Master in Mining Management upon a candidate, that candidate shall surrender the testamur for the Diploma in Mining Management, and in so doing, shall be deemed to have surrendered all rights pertaining to the diploma. Other qualifications or professional experience may also be approved.

5. GRADUATE DIPLOMA IN ENGINEERING

A candidate who has completed a degree of Bachelor of Engineering and
(i) who has not qualified for any class of Honours, or
(ii) who wishes to qualify for the Graduate Diploma in Engineering (Mining) will enrol in the 48 credit point subject MINE899.

Upon satisfactory completion of the subject MINE899 the candidate is eligible for award of the Graduate Diploma in Engineering (Mining). A person who has completed the Graduate Diploma in Mining Engineering and who subsequently satisfied the requirements for the award of the degree of Honours Master of Engineering is required by Course Rule 5504(2) to surrender the testamur and associated rights for the Graduate Diploma prior to receiving the Honours Masters degree.

SUBJECT DESCRIPTIONS

Note: Not all subjects available in any one year.

MINE899 Advanced Topics in Mining Engineering
Double (A) 48 cp
Computer aided analysis and design; computer methods; ore reserve estimation finite element techniques; hydrology, hydraulics; numerical techniques; reliability; rock mechanics; simulation; structural analysis and design; structural topology; mine planning.

MINE901 Transportation of Minerals and Personnel
Autumn/Spring 6 cp
Transport of minerals from initial winning to stockpile and to distribution points; safety problems; hygiene, the environment; transport of personnel; equipment, safety, regulations; cost involved; current research.

MINE902 Advanced Studies in Mining Engineering
Autumn/Spring 6 cp
Topics will be selected from those areas of Mining Engineering in which staff members or visiting staff members to the Department are engaged in active research.

MINE903 Simulation of Underground Mining Operations and Problems
Autumn/Spring 6 cp
Including coal reserves, mining dimensions, surface effects, cost benefit effects of operation and management and economic evaluation and feasibility of a mining enterprise.
personnel; resultant fires; computer modelling of resulting crisis situations in ventilation, current research; relevant legislation.

**MINE909 Mine Subsidence**  
*Autumn/Spring*  
6 cp  
Causes of mine subsidence; continuum mechanics theories; determination of trough subsidence; subsidence calculations and prediction; measurement techniques; design of structures in mine subsidence active area; methods of reducing subsidence damage; application of computers for subsidence modelling; relevant legislation.

**MINE911 Mine Service Engineering**  
*Autumn/Spring*  
6 cp  
Advanced studies in power reticulation in mines; economics of power reticulation, maintenance engineering; equipment monitoring and preventive maintenance; quality control and equipment specification; current research.

**MINE941 Environmental Management for the Mining Industry**  
*Annual*  
6 cp  
Environmental regulation as a constraint on business operations; environmental planning and management as a component of overall business planning; financial costs and benefits of environmental management and their timing; environmental risks and uncertainty; integrated design strategies; emission control technologies; formal environmental impact assessment procedures, including public submissions and hearings; lease and licence conditions; compliance with planning and pollution control legislation; developing and using environmental operations manuals; in-house environmental training programs; corporate environmental audit procedures; liaison with public and community groups; particular EPM applications in mining, oil, manufacturing, petrochemical, civil engineering and infrastructure; building and construction, coastal management and other industries; EPM issues and concerns in Asia-Pacific nations and the region as a whole.

**MINE942 Safety in the Mining Industry**  
*Annual*  
6 cp  
Safety management, hazard and risk analyses; safety hazard identification; management techniques (MORT STEP); safety audits; statistics; HAZOP - management & maintenance of change risk analysis; cost benefit analysis, attitudes to safety in mining, safety & personal problems, effective training, accident and injury; reporting/recovery, ergonomics & safety engineering, prevention, traumatic injury; work stress, environmental factors, monitoring & protection, personal protective equipment, safety policies and programs, action plans.

**MINE943 Drilling and Blasting**  
*Annual*  
6 cp  
Drilling methods, types of drills, types of bits and other accessories; drilling economics maintenance schedules for drills and accessories; history and theory of explosives; explosive types; new developments and applications; blast design and secondary blasting; controlling ground vibration, airblast and flyrock; blasting economics; controlled blasting; precautions against extraneous electricity; misfires and deteriorated explosives; safety and legislation for storage; transportation and handling of explosives.

**MINE944 Application of Computers in the Mineral Industry**  
*Annual*  
6 cp  
Topics will be selected from geostatistical ore reserve estimation on a personal computer; computerised open-pit design and planning; mine system simulation of an expert system for the mineral industry; mine ventilation planning on a personal computer using commercial packages to solve mining problems including rock mechanics.

**MINE945 Mining Management Project**  
*Annual*  
6 cp  
A study of either an administrative or technical nature with relevance to the management of a mining or mineral processing operation. This may be based on simulated or actual situations but projects of relevance to the candidate's employment will be encouraged. As far as is possible, projects will be designed in consultation with the mining industry.

**MINE946 Placer Technology**  
*Annual*  
6 cp  
Sources of placer minerals; natural processes producing concentration of placer minerals; nature of placer deposits; trends in placer exploration; placer sampling; reserves calculations; mining methods; processing methods; project evaluation; environmental implications and pollution control technology.

**MINE947 Introductory Computing and Statistics for Geologists and Mining Engineers**  
*Annual*  
6 cp  
Computer hardware for geological data processing; peripheral devices; operating systems; VAX/VMS, RSX, MVS, MS DOS, UNIX; programming in Fortran and C; statistics for geologists and mining engineers; data base packages and macros.

**MINE948 Mine Ventilation and Environment**  
*Annual*  
6 cp  
Ventilation network analysis and simulation; fan selection, role of booster fans; ventilation of long headings; recirculation; gases from diesel engines and their control; methane and its control in underground coal mines; dusty in mine air and its control; mine climate and its control; ventilation planning.

**MINE952 Geostatistics and Mine Planning**  
*Annual*  
6 cp  
When to apply Geostatistics, brief review of univariate statistics; bivariate statistics and correlation; exploratory data analysis; measures of spatial correlation - the variogram, the covariance, variogram calculation and how to obtain a good variogram; random function models and stationarity, desirable properties of estimators; estimation of variance, dispersion variance and uses, optimal weighted average estimator - ordinary kriging; recoverable reserve estimation - problems and solutions, indicator and probability kriging. Application examples - coal, copper, gold; blast-hole kriging for ore-waste selection, geotechnics and the environment.

**MINE953 Mine Water - Origin, Inflow Predictions and Control**  
*Annual*  
6 cp  
Water problems in surface and underground mining; hydro geological factors affecting mine water inflow; hydrological considerations in origin of mine water; hydro geological characterisation of rock mass and pumping tests; pumping test calculations; effects of ground water on surface mining stability; ground water control in surface mining; calculation of mine water inflow to surface mining; water problems in underground mining; underground mine dewatering techniques; pumps and pumping systems; underground pumping stations and pump design; mine inundation; working under the body of water; inflow prediction by chemical analysis method; mine water pollution control; treatment of mine water pollution; biotechnical approach; constructed wetlands and lagoons.

**MINE954 Strata Control from First Principles to Practice**  
*Annual*  
6 cp  
Fundamentals of strata mechanics together with advanced topics including: engineering and rock mechanics aspects of coal mining strata control; design aspects of mine structures/ such as mine pillars, gate roads and longwall mining; instrumentation in providing for the safe design of the mine opening; rock and cable bolting techniques and powered support design.

**MINE956 Mineral Law**  
*Annual*  
6 cp  

**MINE958 Environmental Impact of Mining and Mineral Operations**  
*Annual*  
6 cp  
Aspects of environmental impact of surface and underground mining operations; visual impact assessment; air pollution, including dust, noise and vibration; solid waste management; water pollution and acid mine drainage; restoration, land use, subsidence and the socio-economic effects of mining will also be discussed.
MINE962 Management Perspectives
Annual 6 cp
What is Management? Managing individuals, managing groups, managing organisations, managing information, managing operations, managing decision making.

MINE963 Economic Decision Making
Annual 6 cp
Introduction to Economic Concepts: demand, supply and the market; consumers; firms and market structures; welfare economics and government intervention; international economics; macro economics and national income analysis; national economic policy; cost-benefit analysis and expenditure decisions; business finance.

MINE964 Management of Innovation
Annual 6 cp
Innovation and innovations, technology and innovation; opportunity analysis; marketing and innovation; the business plan, management of innovation; innovations in corporations, maintaining innovations.

MINE965 Strategic Planning
Annual 6 cp
The nature and scope of strategic management; the practice of strategic management; the mission of the organisation; analysing organisational resources; formulating strategic objectives; generating strategic alternatives; evaluating strategic implementation; assessing strategic performance.

MINE971 Financial Management
Annual 6 cp
Financial management - an overview; accounting concepts and the accounting concepts and the accounting process, financial statements; public sector accounting; corporate accounting the interpretation of financial statements; the recording of costs; management cost information (1); management cost information (2); the budgeting process.

MINE972 Export Marketing for the Mining Industry
Annual 6 cp
Marketing as applied to the mineral industry. Sources and types of market-related information. Particular international market characteristics, political, social and economic: Trade barriers, cartels, regional and sub-regional economic groupings. Marketing to Asia, buyer behaviour, private and government sectors. Design, conduct and analysis of surveys of overseas markets for mineral products. Factors related to particular mineral commodities. The recognition of export opportunities. Stages in the development of a market strategy. Market decision making under conditions of uncertainty. The relationship between corporate and marketing strategy for mineral products. Value added mineral products and export marketing. Sources of assistance for export marketing.

MINE973 Mine Evaluation and Project Assessment
Annual 6 cp
Valuation tools and techniques; valuation reports; preliminary investigation; asset determination; impact of financing options; published assessments; feasibility studies; valuation of exploration tenements; residual values of property and plant; variations to value.

MINE974 Mine Management
Annual 6 cp
The general management functions; planning; organisation; control; communication; command; coordination; production functions; marketing, financial aspects; personnel; purchasing; public relations; environmental matter; contracts and stock market requirements and implications.

MINE975 Evaluation in the Coal Mining Industry
Autumn/Spring 6 cp
An introduction to the theory and practice of financial modelling of mining projects; financial evaluation and economic decision making; long life and large sustaining capital needs of coal projects and the techniques of evaluating operational alternatives are reviewed and illustrated by industry case histories; evaluation of new mine projects are studies by means of case histories.

MINE976 Environmental Assessments (Audits)
Annual 6 cp
This course is an introduction to methods for assessing existing and potential contamination of industrial sites and mining operations. The course includes elements such as the policy and legal framework of environmental assessments, sources of information on a range of chemical contaminants and recommended exposure limits; the role of the assessor (or auditor); selected environmental assessment case studies will be considered.

MINE977 Mineral Exploration Management
Annual 6 cp
Introduction to program design; review of available techniques; remote sensing techniques; airborne geophysical surveys; ground geophysical surveys; data interpretation; reporting and supervision; sequential exploration; definition of drill targets, budgeting and budget management.

MINE978 Coal Preparation
Annual 6 cp
Coal characterisation; principles of separation; materials handling; sampling - theory; sampling - equipment and practice; screening and communication; cleaning of coarse and small coal, water based separation, dense medium separation; cleaning of fine coal; solid liquid separation, theory, cyclones, vacuum and pressure filtration, centrifuges (product and tailing); clarification/thickening practice; pumping, piping, valving; plant design, layout and upgrading; maintenance; control concepts (basic process control on-stream analysis, overall plant control and optimisation).

MINE979 Soil and Rock Construction Materials
Annual 6 cp
This course provides an introduction to the location, assessment, mining and processing of soil and rock construction materials and to the environmental problems associated with their extraction. The main themes explored include the maximum use of existing quarries, the use of upgraded marginal materials and the reclamation of quarried lands. The materials covered include aggregates, ballast, armourstone and prepared road base, sand, gravel and natural pavement materials, artificial aggregates and stabilised road base, brick clay, lime and cementitious materials.

MINE980 Slope Stability for Surface Mining
Annual 6 cp
This comprehensive course will deal with the major topics of engineering geology and ground water controls, in the form of discontinuities, variable materials and pore pressure, effect of excavation method and scheduling in pit stability, the fundamental basis of stability analysis, advantages and disadvantages of a range of mathematical models, remedial measures than can be taken to stabilise slopes; pit slope design in the context of overall mine planning. The subject may also involve workshops and field inspections so that students gain hands-on experience of practical cases.

GEO921 Environmental Geology
Autumn/Spring 6 cp
Refer to Faculty of Science, Geology subjects course description.

MINE950 Dissertation
Double (A) 12 cp

MINE951 Dissertation
Double (A) 24 cp

MINE955 ME Major Thesis
Double (A) 48 cp

MINE957 PhD Major Thesis
Double Session (A) 48 cp

COURSES OFFERED

The following postgraduate degrees and diplomas are available:

1. Doctor of Philosophy
2. Honours Master of Science by Research
3. Graduate Diploma in Science

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Science degree by research and the Doctor of Philosophy degree:

- Astronomy - visible and infrared, planetary surfaces
- Experimental nuclear physics
- Laser spectroscopy
- Medical and Radiation Physics
- Scattering of light by solids
- Solid state spectroscopy of impurities in semi-conductors
- Studies of electronic wave functions in solids
- Theoretical astrophysics - galaxy formation, gas dynamics

SCHEDULE OF GRADUATE SUBJECTS

GRADUATE DIPLOMA SCIENCE (PHYSICS)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>PHYS230</td>
<td>Intermediate Physics</td>
<td>12</td>
</tr>
<tr>
<td>PHYS255</td>
<td>Radiation Physics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS295</td>
<td>Concepts of the Modern Universe</td>
<td>6</td>
</tr>
<tr>
<td>PHYS325</td>
<td>Mechanics and Thermodynamics</td>
<td>6</td>
</tr>
<tr>
<td>MATH201</td>
<td>Multivariate and Vector Calculus*</td>
<td>6</td>
</tr>
<tr>
<td>MATH202</td>
<td>Applied Differential Equations*</td>
<td>6</td>
</tr>
<tr>
<td>MATH261</td>
<td>Mathematics IIA for Engineers</td>
<td>6</td>
</tr>
<tr>
<td>MATH262</td>
<td>Mathematics IIB for Engineers</td>
<td>6</td>
</tr>
<tr>
<td>PHYS305</td>
<td>Quantum Mechanics*</td>
<td>6</td>
</tr>
<tr>
<td>PHYS315</td>
<td>Current Topics in Physics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS325</td>
<td>Electromagnetism and Plasma Physics*</td>
<td>6</td>
</tr>
<tr>
<td>PHYS335</td>
<td>Classical Mechanics*</td>
<td>6</td>
</tr>
<tr>
<td>PHYS345</td>
<td>Medical Physics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS355</td>
<td>Radiation Therapy Physics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS365</td>
<td>Detection of Radiation: Neutrons, Electrons and X-Rays</td>
<td>6</td>
</tr>
<tr>
<td>PHYS375</td>
<td>Nuclear &amp; Solid State Physics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS395</td>
<td>Advanced Project in Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS946</td>
<td>Advanced Solid State Physics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS947</td>
<td>Special Topics in Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS948</td>
<td>The Physics of Imaging</td>
<td>6</td>
</tr>
<tr>
<td>PHYS997</td>
<td>Special Topics in Physics B</td>
<td>6</td>
</tr>
<tr>
<td>PHYS990</td>
<td>Applied Physics Project</td>
<td>24</td>
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</tbody>
</table>

* These subjects are pre and co-requisites of some of the physics subjects.

HONOURS MASTER OF SCIENCE

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS910</td>
<td>Advanced Project in Physics A</td>
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<tr>
<td>PHYS946</td>
<td>Advanced Solid State Physics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS947</td>
<td>Special Topics in Physics A</td>
<td>6</td>
</tr>
<tr>
<td>PHYS948</td>
<td>The Physics of Imaging</td>
<td>6</td>
</tr>
</tbody>
</table>
COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in PHYS999.

2. HONOURS MASTER OF SCIENCE

The course will be made up of subjects selected from those described below, in accordance with the Honours Masters Degree Rules together with the following conditions:

(1) entry to the degree program will normally be from an Honours degree in Physics or the Graduate Diploma in Science (Physics) or from a pass degree with an appropriate three year sequence in Physics;

(2) students entering with a degree of Honours Class II, Division 2 or above in an appropriate area, will do the 48 credit point PHYS999 Major Thesis;

(3) students entering with a degree below Honours Class II, Division 2 will do the 48 credit point PHYS999 and a 48 credit point combination of subjects chosen from the remaining Graduate Subjects below and the Bachelor Degree Schedule. These subjects will normally be chosen in consultation with and approved by the Departmental Head.

3. GRADUATE DIPLOMA IN SCIENCE

Introduction and Objectives
This one year full-time or two year part-time course is designed to provide:

(1) a Masters Qualifying course for students who have inadequate preparation for direct entry into the Honours Masters program;

(2) an opportunity for Science teachers who have a degree but have taken Physics to first or second year level only, to improve their understanding and horizons in Physics;

(3) an opportunity for International students and students without a full major in Physics to update their knowledge of Physics.

Entry to the Course
Students must consult the Departmental Head for admission to the course. The particular combination of subjects to the value of 48 credit points will be chosen in consultation with the Departmental Head.

SUBJECT DESCRIPTIONS

PHYS910 Advanced Project in Physics A
Autumn 6 cp
Assessment: satisfactory operation and written descriptions of completed experiments.

PHYS946 Advanced Solid State Physics
Double 6 cp
Assessment: assigned problems, tests and sessional examinations.

PHYS947 Special Topic in Physics A
Autumn 6 cp
Contact hrs: 14 hrs seminars and 14 hrs tutorials.
Assessment: project work and seminar.
A special topic to be selected from any area of Physics. The selection to be made by the Departmental Head in consultation with the Departmental Assessment Committee.

PHYS948 The Physics of Imaging
Autumn 6 cp
Contact hrs: 26 contract hrs.
Pre-requisite: Relevant academic or professional background.

PHYS960 Advanced Project in Physics B
Spring 6 cp
Contact hrs: 42 hrs laboratory.
Assessment: satisfactory operation and written descriptions of completed experiments.

PHYS997 Special Topic in Physics B
Spring 6 cp
Contact hrs: 14 hrs seminars and 14 hrs tutorials.
Assessment: as for PHYS947.
A special topic to be selected from any area of physics. The selection to be made by the Departmental Head in consultation with the Departmental Assessment Committee.

PHYS999 Major Thesis
Double 48 cp
The major thesis takes the form of a supervised research project on an approved topic.
The Faculty offers Honours Master of Science and Doctor of Philosophy degrees by research. In addition, the Honours Master of Arts is offered in the Departments of Public Health and Nutrition, and Psychology.

Postgraduate coursework programs are available in the Faculty in the following areas:

**Department of Biomedical Science**
- Exercise Science
- Nutrition and Dietetics
- Nutrition/Dietetics and Exercise Science
- Biomedical Science

**Department of Nursing**
- Indigenous Health studies
- Nursing
- Midwifery
- Developmental Disability
- Mental Health Nursing

**Department of Psychology**
- Applied Psychology
- Clinical Psychology
- Sports and Exercise Psychology
- Psychotherapy and Counselling

**Department of Public Health and Nutrition**
- Public Health
- Health Policy and Management
- Occupational Health and Rehabilitation
- Mental Health

The University attempts to ensure that information contained in this publication is up to date at the time of printing but sections may be amended without notice by the University in response to changing circumstances for any other reasons. Classes in any subject may be cancelled if enrolments do not reach the levels approved for the effective presentation of the topic area. Students should check with the University at the time of application/enrolment whether any later information is available in respect of any material contained in this Calendar.

The University reserves the right to change the content or the method of presentation of any unit of study, or to withdraw any unit or course of study which it offers, or impose limitations on enrolment in any unit or course as a result of resource limitations or for any other reason.
FACULTY OFFICE

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Sub-Dean
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DEPARTMENT OF BIOMEDICAL SCIENCE

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Peter McLennan, BSc(Hons), PhD Monash

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Paul Elise, BSc(Hons) PhD UNSW
Arthur Jenkins, BSc(Hons) Qld PhD UNSW
Julie Steele, DipTch Kuming-gai, BPE(Hons) WA
Linda Tapsell, BSc DipNutDiet Syd, MPHEd UNSW, PhD, ADP
Nigel Taylor, Dip Tch Brisbabe BHMS(Hons) Qld, MSc Lond, PhD
Simon Fraser
Graham R Ward, TTC ASPE NZ, BSc BE(Sc) MSc(Hons) Mass, PhD McE, MACE, FIBS Oxf FABS US

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Owen Curtis, DipPhysEd TSQC Meib, BEd(PE) Med WA
Xu Feng Huang, MSc Shanghi, MBBS Xu Zhou Medical College, PhD UNSW
Boris Gazbarich, BSc GDipDiet Deakin, MCom UNSW
Barbara Meyer, BSc(Hons) PhD Monash

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Nola Hurt

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Mario Solito, Cert.Elect.Syd TAFE
Darryl McAndrew BSc, MSc(Hons)
Flona Edwell, BSc(Hons)

Honorary Fellows
Guy Bashford, MB BS, FACRM
Ian Davidson, MB BS FACRM
Walter deRuyter, RN, RM, ASHOT, BHA UNSW
Ignatius Gan, MCOB, FACBS, FRACI, CChem, FACB
Christopher James, MBBS, FACOG
Geoff Murray, MBBS, FACRM

EXECUTIVE REHABILITATION CENTRE
# BIOMEDICAL SCIENCE

## COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Master of Science (Honours)
3. Master of Science (Exercise Science)
4. Master of Science (Nutrition)
5. Master of Science (Nutrition and Dietetics)
6. Master of Science (Nutrition/Dietetics and Exercise Science)
7. Graduate Diploma of Science (Biomedical Science)
8. Graduate Diploma in Science (Exercise Science)

## CURRENT RESEARCH AREAS

The Department’s research activities are in the general areas of metabolic disorders, cardiovascular, respiratory and exercise physiology, nutrition and dietetics and exercise rehabilitation.

## SCHEDULE OF PROGRAMS

### POSTGRADUATE PROGRAM IN RESEARCH

leading to the degree of Doctor of Philosophy.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMA999</td>
<td>Major Thesis</td>
<td>48/year</td>
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</table>

### POSTGRADUATE PROGRAM IN RESEARCH

leading to the degree of Master of Science (Honours).

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
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<tbody>
<tr>
<td></td>
<td>GHMA906</td>
<td>Research Projects</td>
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<tr>
<td></td>
<td>GHMA909</td>
<td>Practicum</td>
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<tr>
<td></td>
<td>GHMA913</td>
<td>Special Topics</td>
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<tr>
<td></td>
<td></td>
<td>plus a further 24 cps of approved subjects</td>
<td></td>
</tr>
<tr>
<td>Year 2</td>
<td>GHMA999</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

### POSTGRADUATE PROGRAM IN EXERCISE SCIENCE

leading to the degree of Master of Science (Exercise Science)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
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<tbody>
<tr>
<td></td>
<td>BExS402</td>
<td>Exercise in Special Populations*</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>BExS411</td>
<td>Practicum in Exercise Science A*</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>BExS412</td>
<td>Practicum in Exercise Science B*</td>
<td>8</td>
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<tr>
<td></td>
<td>GHMA951</td>
<td>Advanced Exercise Rehabilitation*</td>
<td>8</td>
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<td>GHMA913</td>
<td>Special Topic</td>
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<tr>
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<td>plus at least a further 8cps of approved subjects</td>
<td>8</td>
</tr>
<tr>
<td>Year 2</td>
<td>GHMA997</td>
<td>Major Project</td>
<td>24</td>
</tr>
</tbody>
</table>

*Graduates of the BExS degree may apply for advanced standing in these subjects but must still complete a 48cp program.

### POSTGRADUATE PROGRAM IN NUTRITION

leading to the degree of Master of Science (Nutrition)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>GHMA930</td>
<td>Community and Public Health Nutrition</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>GHMA931</td>
<td>Nutrients and Metabolism</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>GHMA932</td>
<td>Research in Human Nutrition</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>GHMA997</td>
<td>Major Project</td>
<td>24</td>
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</tbody>
</table>
Biomedical Science 221

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
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</thead>
<tbody>
<tr>
<td>GHMA933</td>
<td>Communication in Health Care Practice</td>
<td>8</td>
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<tr>
<td>GHMA934</td>
<td>Dietetics</td>
<td>8</td>
</tr>
<tr>
<td>GHMA935</td>
<td>Food Service and Dietetics Management</td>
<td>8</td>
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</tbody>
</table>

* or 24cps of course work approved by the Head of Department

**POSTGRADUATE PROGRAM IN NUTRITION AND DIETETICS**

leading to the degree of Master of Science (Nutrition and Dietetics)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMA930</td>
<td>Community and Public Health Nutrition*</td>
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<tr>
<td>GHMA931</td>
<td>Nutrients and Metabolism*</td>
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<tr>
<td>GHMA932</td>
<td>Research in Human Nutrition*</td>
<td>8</td>
</tr>
<tr>
<td>GHMA997</td>
<td>Major Project</td>
<td>24</td>
</tr>
</tbody>
</table>

* graduates of the BSc(Nutrition) degree may apply for advanced standing in these subjects

**POSTGRADUATE PROGRAM IN NUTRITION/DIETETICS AND EXERCISE SCIENCE**

leading to the degree of Master of Science (Nutrition/Dietetics and Exercise Science)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
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</thead>
<tbody>
<tr>
<td>GHMA929</td>
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<tr>
<td>GHMA934</td>
<td>Dietetics</td>
<td>8</td>
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<tr>
<td>BExS402</td>
<td>Exercise in Special Populations</td>
<td>8</td>
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<tr>
<td>GHMA951</td>
<td>Advanced Exercise Rehabilitation</td>
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<tr>
<td>GHMA938</td>
<td>Practicum in Dietetics and Exercise Science A</td>
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<tr>
<td>GHMA935</td>
<td>Food Service and Dietetics Management</td>
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<td>GHMA939</td>
<td>Practicum in Dietetics and Exercise Science B</td>
<td>16</td>
</tr>
<tr>
<td>GHMA997</td>
<td>Major Project</td>
<td>24</td>
</tr>
</tbody>
</table>

**POSTGRADUATE PROGRAM IN BIOMEDICAL SCIENCE**

leading to the degree of Graduate Diploma of Science (Biomedical Science)

**Credit points**

This program requires 48 cps of subjects approved by the Head of Department.

**POSTGRADUATE PROGRAM IN EXERCISE SCIENCE**

leading to the degree of Graduate Diploma of Science (Exercise Science)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BExS402</td>
<td>Exercise in Special Populations</td>
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<tr>
<td>BExS451</td>
<td>Advanced Exercise Rehabilitation</td>
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</tbody>
</table>

plus a minimum of 16 cp of approved subjects

**COURSE REQUIREMENTS**

1. **DOCTOR OF PHILOSOPHY**

Candidates for this degree enrol in GHMA999 Major Thesis

2. **MASTER OF SCIENCE (HONOURS)**

The primary aim of the 2-year MSc(Honours) degree is to provide research opportunities and training at the postgraduate level. Students with a degree at less than Honours Class II, Division 1 level will be required to complete subjects with a value of at least 96 cp to graduate. The cp will be divided into 48 cp of course work and 48 cp of research. Those students with a degree of at least Honours Class II, Division 1 level will be required to complete 48 cp of research.
3. MASTER OF SCIENCE (EXERCISE SCIENCE)

This 1.5-year (72cp) masters level program provides graduates of 3-year Human Movement Science degrees a postgraduate program which including research training and professional studies leading to professional accreditation as an Exercise Science practitioner by the Australian Association for Exercise and Sports Science (AAESS). Graduates of an approved 4-year Exercise Science program may complete the MSc(Exercise Science) in 1-year (48cp). The MSc (Exercise Science) is a full fee paying program.

4. MASTER OF SCIENCE (NUTRITION)

The 1.5-year (72cp) MSc(Nutrition) program provides access to the academic and research experiences of the MSc(Nutrition and Dietetics) but excludes the placement program and so is not accredited by the DAA. The MSc(Nutrition) is a full-fee paying program.

5. MASTER OF SCIENCE (NUTRITION/DIETETICS AND EXERCISE SCIENCE)

Graduates of the 2-year (96cp) MSc(Nutrition and Dietetics) program may apply to become members of the Dietitians Association of Australia (DAA) and practice as professional Dietitians/Nutritionists. Graduates of an approved BSc(Nutrition) degree program may receive up to 24cps of advanced standing allowing the degree to be completed in 1.5 years.

6. MASTER OF SCIENCE (NUTRITION/DIETETICS AND EXERCISE SCIENCE)

This 2-year (96cp) program allows graduates of an approved BSc(Human Movement Science and Nutrition) degree to obtain professional accreditation as both a Dietitian/Nutritionist from the DAA, and an Exercise Science practitioner from AAESS. The MSc (Nut/Diet and Exs) is a full fee paying degree.

7. GRADUATE DIPLOMA OF SCIENCE (BIOMEDICAL SCIENCE)

A 1-year and 48cp program of course work within the discipline areas of Biomedical Science. The selection of subjects must be approved by the Head of Department.

8. GRADUATE DIPLOMA IN SCIENCE (EXERCISE SCIENCE)

This 1-year (48cp) course work Graduate Diploma of Science is designed principally for graduates of an approved 3-year BSc(Human Movement Science) degree program to gain professional accreditation as an Exercise Science practitioner from AAESS.

SUBJECT DESCRIPTIONS

GHMA906 Research Projects
Autumn/Spring/Annual 8 cp
Contact hrs: At least 5 hrs per week.
Assessment: Substantial report and seminars
Content: This subject requires the student to research in detail a problem identified in an approved research discipline area. Students will conduct their research project with their supervisors.

GHMA909 Practicum
Autumn/Spring/Annual 8 cp
Contact hrs: at least 5hrs per week.
Assessment: Substantial report and seminars
Content: Students will undertake a period of supervised research training with their supervisor generally within a laboratory or clinical setting.

GHMA913 Special Topics
Autumn/Spring/Annual 8 cp
Contact hrs: up to 5 hrs per week.
Content: Individual directed study with the student's supervisor.

GHMA914 Ergonomics
Autumn 8 cp
Contact hrs: 56 hrs of lectures, seminars and laboratory sessions.
Assessment: Assignment, laboratory reports and final examination
Content: This subject will analyse the relationship between the nature of work and the environment. Topics covered will include the design of work stations and jobs and the capacities and limitations of the human body.

GHMA929 Exercise Psychology and Dietary Counselling
Autumn 8 cp
Contact hrs: 4hrs lectures/seminars/week.
Pre-Requisite: Entry into the MSc(Dietetics/Nutrition and Exercise Science) degree; NB. Not to count with PSCY216 and GHMA933
Assessment: Assessment of competence in small group education and dietary counselling exam
Content: The subject will combine an understanding of the central features of sports psychology with basic skills in dietary counselling and small group education in the context of diet and exercise. Students will study personality and situational factors influencing participation in sport, and cognitive and behavioural influences on the promotion of healthy lifestyles. They will counsel individuals in dietary change and conduct small group education programs for community members.

GHMA930 Community and Public Health Nutrition
Autumn 8 cp
Contact hrs: 4hrs lectures/seminars per week.
Pre-Requisite: BMS103, PHN203, MGMT102 or enrolment in MSc(Nutrition and Dietetics) course
Co-requisite: BMS311
Assessment: Assignments, Examination
Different assessments will be set for the 300 and 900 level candidates
Content: This subject will introduce the student to the principles of community health and the history of public health nutrition in Australia. Key areas of public health nutrition include nutrition surveillance, food policy, program planning and health promotion. There will be a focus on community nutrition practice, covering such topics as maternal and infant nutrition, school based nutrition programs, diabetes education and the health of older people in the community.

GHMA931 Nutrients and Metabolism
Autumn 8 cp
Contact hrs: 2hrs lectures and 3 hrs practical.
Pre-Requisites: BMS202, BIOL214
Assessment: Examination, practical assessment, presentations and reports
Content: Human nutrient requirements and their role will be discussed under the following topics: energy requirements, carbohydrate needs - biochemical and physiological control, dietary fibre, protein needs - amino acid metabolism, protein deficiency and other clinical syndromes, lipid-lipoprotein metabolism, alcohol metabolism, fasting, starvation and refeeding, minerals and trace metals and vitamins.

GHMA932 Research in Human Nutrition
Autumn 8 cp
Contact hrs: 4hrs lectures/seminars/week.
Pre-Requisite: BMS204, PHN203, STAT252
Co-requisite: BMS311
Assessment: Assignments, Examination. Different assessments will be set for the 300 and 500 level candidates.
Content: The subject will introduce students to a range of key areas of research in human nutrition. Beginning with an overview of nutrition research and the development of literature reviews, topics will include diet intake methodology, the use of nutrient databases, biomedical assays and indicators, epidemiological and ethnographic approaches as they relate to nutrition.

**GHMA933 Communication in Health Care Practice Autumn** 8 cp

- **Contact hrs:** 4hrs lectures/seminars/week
- **Pre-Requisite:** BMS310, BMS311, BMS312 or equivalent studies leading to an area of health care practice
- **Assessment:** N/A
- **Content:** The subject will introduce students to key areas of communication in health care practice. Emphasis will be placed on successful communication in a range of contexts and topics include individual client counselling, small group education, community consultation, participating in meetings, working with the media and conflict resolution. Students will study both the theory and the practice of communication and education in these settings as they relate to their professional work environments.

**GHMA934 Dietetics Autumn** 8 cp

- **Contact hrs:** 3hrs lectures/seminars per week plus average 1.5 hrs. TAFE per week (block times as scheduled).
- **Pre-Requisite:** BMS310, BMS311, BMS312
- **Assessment:** Assignments, Examinations
- **Content:** The subject will introduce students to the discipline of dietetic management of disease in chronic and acute conditions. Topics are introduced through the study of case management and supported by lectures from clinical specialists in the dietetic and medical professions. Topics include dietary regimes for diabetes mellitus, food allergies, conditions of physiological stress (eg sports nutrition) as well as enteral and parenteral nutrition, and approaches to diet therapy for of disease states of gastrointestinal, endocrine, cardiovascular and renal systems, stroke, hypermetabolic conditions, AIDS, inborn errors of metabolism and others.

**GHMA935 Food Service and Dietetics Management Autumn** 8 cp

- **Contact hrs:** 3hrs lectures/seminars per week plus average 1.5 hrs. TAFE per week (block times as scheduled).
- **Pre-Requisite:** BMS310, BMS311, BMS312
- **Assessment:** Assignments, Examination, Management exercise
- **Content:** The subject focuses on the development of small and large scale cooking skills, menu planning and standard recipe manipulation in keeping with dietetic modifications. There is some skills development in managing the provision of meals via an institutional food service. Aspects of organisational design, leadership, motivation, negotiation, resource management, decision making and power will be explored.

**GHMA937 Practical Studies in Nutrition and Dietetics Annual (over three sessions)** 24 cp

- **Contact hrs:** 21 wk placement; 35hrs seminars.
- **Prerequisite:** GHMA931, GHMA934
- **Assessment:** assignments
- **Content:** This subject comprises a practicum of at least 20 weeks duration which is spent in community health/fitness centres, hospitals and other food-related organisations. Students will be under the supervision of experienced practitioners appropriate to the placement requirements. This placement is designed to develop the student's skills and competencies in a range of areas including provision of community nutrition programs and the design and delivery of nutrition and exercise interventions for clients with pathology such as post-coronary patients, patients attending inpatient obesity clinics and those people experiencing musculoskeletal pathology. This subject completes placement requirements of the Dietitians Association of Australia, the balance of those requirements being met through the second placement program conducted in the final year of the MSc (Dietetics and Exercise Science) course.

**GHMA938 Practicum in Diet and Exercise Science A Annual** 16 cp

- **Contact hrs:** 10 weeks of placement.
- **Pre-Requisite:** BEK3 301
- **Co-Requisite:** N/A

**GHMA939 Practicum in Diet and Exercise Science B Annual** 16 cp

- **Contact hrs:** 10 weeks of placement.
- **Pre-Requisite:** GHMA938
- **Assessment:** placement program, assignments, seminar/workshop presentations, reflective journal

**GHMA951 Advanced Exercise Rehabilitation Spring** 8 cp

- **Contact hrs:** 2 hrs lectures, 2 hrs laboratory, 1hr tutorial.
- **Pre-Requisite:** BMS 351, BEK 402
- **Assessment:** Examination, Practical and seminar presentations, Assignment

**GHMA991 Advanced Exercise Rehabilitation Autumn/Spring** 24 cp

- **Contact hrs:** At least 30 hrs/wk in directed study/research.
- **Pre-Requisite:** Satisfactory prior knowledge of research methods
- **Assessment:** Research proposal, Research Report, Oral seminars

**GHMA997 Major Project Autumn/Spring** 24 cp

- **Contact hrs:** At least 30 hrs/wk in directed study/research.

**GHMA999 Major Thesis Multi-session subject** 48 cp

**Assessment:** assignments, seminars, workshop presentation, reflective
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Master of Nursing (Honours)
3. Master of Science (Honours, Midwifery)
4. Master of Science (Midwifery)
5. Master of Indigenous Health Studies
6. Master of Nursing
7. Master of Science (Developmental Disability)
8. Graduate Diploma in Science (Developmental Disability)
9. Graduate Diploma in Indigenous Health Studies
10. Graduate Diploma in Nursing
11. Graduate Certificate in Indigenous Health Studies
12. Graduate Certificate in Nursing
13. Graduate Certificate in Mental Health Nursing

CURRENT RESEARCH AREAS

The major current areas of nursing research use educational, demographic, and ethnographic techniques. Studies using a variety of approaches associated with disciplines such as Psychology, History, Economics, Philosophy and Sociology will be considered.

The following areas of research are available to candidates undertaking the Honours Masters degrees by research and the Doctor of Philosophy degree:

- Maternal and child care
- Diabetes
- Physiology/Pathophysiology
- Medical/surgical nursing
- Special care nursing
- Mental health
- Developmental disability
- Psychiatric nursing
- Health promotion
- Cardiovascular disease prevention
- Health services evaluation
- Migrant health
- Indigenous Health Studies
- and other areas relevant to nursing

SCHEDULE OF PROGRAMS

Please note: assessment requirements will be listed in the subject outlines provided to students at the beginning of each session.

POSTGRADUATE PROGRAMS IN NURSING

leading to the Graduate Certificate in Nursing, Graduate Certificate in Indigenous Health Studies, Graduate Diploma in Nursing, Graduate Diploma in Indigenous Health Studies, Graduate Diploma in Science (Developmental Disability), Master of Science (Developmental Disability), Master of Nursing, Master of Indigenous Health Studies, Master of Science (Midwifery), Master of Science (Honours, Midwifery), Master of Nursing (Honours), Doctor of Philosophy.

SCHEDULE 1

Graduate Certificate in Nursing

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMB900</td>
<td>Nursing: The Professional Context</td>
<td>6</td>
</tr>
<tr>
<td>GHMB902</td>
<td>Nursing Management</td>
<td>6</td>
</tr>
<tr>
<td>GHMB903</td>
<td>Scientific and Quantitative Developments in Acute Care Nursing</td>
<td>6</td>
</tr>
<tr>
<td>GHMB906</td>
<td>Acute Care Nursing: Reflections on Practice</td>
<td>6</td>
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<tr>
<td>GHMB907</td>
<td>Fundamental Concepts in Developmental Disability</td>
<td>6</td>
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<tr>
<td>GHMB908</td>
<td>Applied Behavioural Science for Developmental Disability Practice</td>
<td>6</td>
</tr>
<tr>
<td>GHMB909</td>
<td>Multiple Disability</td>
<td>6</td>
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<tr>
<td>GHMB910</td>
<td>Contemporary Issues in Developmental Disability</td>
<td>6</td>
</tr>
<tr>
<td>GHMB923</td>
<td>Legal and Professional Issues</td>
<td>6</td>
</tr>
<tr>
<td>GHMB930</td>
<td>Clinical Education</td>
<td>6</td>
</tr>
<tr>
<td>GHMB931</td>
<td>Clinical Supervision</td>
<td>6</td>
</tr>
<tr>
<td>GHMD902</td>
<td>Communication and Education</td>
<td>6</td>
</tr>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>NURS225</td>
<td>Pathophysiology for the Registered Nurse</td>
<td>6</td>
</tr>
<tr>
<td>NURS328</td>
<td>Nursing Resources Management</td>
<td>6</td>
</tr>
</tbody>
</table>

1 The Department will offer the Graduate Certificate in Mental Health Nursing in 1998 subject to the course being approved by the University. For further information contact the Department of Nursing.
Normally subjects will be selected to form a coherent course of study in a specialised area.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS361</td>
<td>Professional Nursing</td>
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**SCHEDULE 2**

Graduate Certificate in Indigenous Health Studies (24 cp) subjects

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>GHMB904</td>
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<td>GHMB936</td>
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<tr>
<td>GHMB940</td>
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<tr>
<td>GHMD983</td>
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**SCHEDULE 3**

Graduate Certificate in Mental Health Nursing (24 cp) subjects

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<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
</tr>
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<tbody>
<tr>
<td>GHMB989</td>
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<tr>
<td>GHMD973</td>
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</tbody>
</table>

**SCHEDULE 4**

Graduate Diploma in Nursing

**SCHEDULE 1:** The Graduate Certificate in Nursing (24 cp) plus:

**Core Subjects**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
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</thead>
<tbody>
<tr>
<td>GHMB900</td>
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<td>GHMB923</td>
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<tr>
<td>NURS331</td>
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<tr>
<td>Plus Elective</td>
<td>6</td>
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</tbody>
</table>

**SCHEDULE 5**

Graduate Diploma in Indigenous Health Studies (48 cp) subjects

Schedule 2: The Graduate Certificate in Indigenous Health Studies (24 cp) plus

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
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</thead>
<tbody>
<tr>
<td>GHMD982</td>
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<tr>
<td>GHMD904</td>
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<td>GHMB913</td>
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<td>GHMD941</td>
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</table>

**SCHEDULE 6a**

Graduate Diploma in Science (Developmental Disability)

Core and specialisation subjects - compulsory as listed below

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
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<tbody>
<tr>
<td>GHMD983</td>
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<tr>
<td>GHMD984</td>
<td>6</td>
</tr>
<tr>
<td>GHMB907</td>
<td>6</td>
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<tr>
<td>GHMB906</td>
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<td>GHMB909</td>
<td>6</td>
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<tr>
<td>GHMB910</td>
<td>6</td>
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</table>

The remaining two (2) subjects (12 cp) are electives, normally chosen from the following subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC103</td>
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<tr>
<td>SOC205</td>
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<tr>
<td>EDUF101</td>
<td>6</td>
</tr>
<tr>
<td>GHMB900</td>
<td>6</td>
</tr>
</tbody>
</table>

**SCHEDULE 6b**

Master of Science (Developmental Disability)

48 cp from Schedule 6a plus:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMB998</td>
<td>24</td>
</tr>
</tbody>
</table>

**SCHEDULE 7**

Master of Nursing (48 cp) subjects

Core subjects: 24 cp

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD983</td>
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</tr>
<tr>
<td>GHMD984</td>
<td>6</td>
</tr>
<tr>
<td>GHMB905</td>
<td>12</td>
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</table>

Elective subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMB997</td>
<td>24</td>
</tr>
</tbody>
</table>

Select a minimum of 24 cp from Schedule 7 (i), (ii), (iii) & (iv). A maximum of 12 cp may be chosen from 7(ii) (iii) & (iv).
Number | Subject                                                                 | Credit points
--- | --- | ---
7 (i) | GHMB900  | Nursing: The Professional Context                                    | 6
    | GHMB902  | Nursing Management                                                     | 6
    | GHMB903  | Scientific and Quantitative Developments in Acute Care Nursing         | 6
    | GHMB906  | Acute Care Nursing: Reflections on Practice                           | 6
    | GHMB907  | Fundamental Concepts in Developmental Disability                       | 5
    | GHMB908  | Applied Behaviour Science for Developmental Disability Practice        | 6
    | GHMB909  | Multiple Disability                                                   | 6
    | GHMB910  | Contemporary Issues in Developmental Disability                       | 6
    | GHMB923  | Legal and Professional Issues                                         | 6
    | GHMB930  | Clinical Education                                                    | 6
    | GHMB931  | Clinical Supervision                                                  | 6
    | GHMD902  | Communication and Education                                           | 6
    | GHMD906  | Quality Management for Health Services                                | 6
    | NURS225  | Pathophysiology for the Registered Nurse                              | 5
    | NURS328  | Nursing Resources Management                                          | 6
    | NURS361  | Professional Nursing                                                  | 6
7 (ii) Public Health and Nutrition | GHMD902 | Communication and Education                                           | 6
    | GHMD906 | Quality Management for Health Services                                | 6
    | GHMD904 | Epidemiology                                                           | 6
    | GHMD908 | Health Services Planning and Evaluation                                | 5
    | GHMD912 | Health Promotion                                                       | 6
    | GHMD925 | Aboriginal Health Issues                                              | 5
    | GHMD939 | Human Nutrition in Health and Disease                                  | 8
    | GHMD961 | Maternal and Child Health in Developing Countries                      | 5
7 (iii) Psychology | GHMC962 | Counselling Psychology                                                | 8
7 (iv) Science and Technology | STS910 | Gender and Body Politics                                              | 8
    | STS921 | The Dynamics of Science and Technology                                | 12
    | STS931 | Risk Assessment, Health and Safety                                    | 12
    | STS935 | The Impact of Computers and Communication Technology                   | 12
    | STS936 | Critical Studies in Medicine and Health Care                           | 12
    | STS946 | Management of Technological Change                                    | 6
SCHEDULE 8 | Master of Indigenous Health (72 cp) subjects | Option A - Schedule 4: The Graduate Diploma in Indigenous Health Studies (48 cp) plus | GHMB908 | Minor Thesis                                                  | 24
                        | Option B - Schedule 4: The Graduate Diploma in Indigenous Health Studies (48 cp) plus | GHMD908 | Health Services Planning and Evaluation                        | 6
    | GHMD912 | Health Promotion                                                       | 6
    | GHMB942 | Special Topic                                                          | 12
SCHEDULE 9 | Master of Science (Midwifery) Specialisation (compulsory) | GHMB920 | Applied Midwifery Studies                                         | 12
    | GHMB921 | Reproductive Bioscience                                               | 8
    | GHMB922 | Psychosocial Development of the Family                                 | 8
    | GHMB923 | Legal and Professional Issues                                         | 6
    | GHMB924 | Midwifery Studies                                                     | 8
    | GHMD963 | Statistics in Health Research                                         | 6
SCHEDULE 10 | Honours Master of Science (Midwifery) | Master of Science (Midwifery) subjects plus: 48 cp consisting of | GHMD984 | Health Research Methodology                                      | 6
                        |                        | GHMD904 | Epidemiology                                                     | 6
                        |                        | Two (2) optional electives to be selected from:                      | GHMC962 | Counselling Psychology                                           | 8
                        |                        |                        | GHMD912 | Health Promotion                                                  | 6
                        |                        | Elective subjects:                                                   | GHMD925 | Aboriginal Health Issues                                        | 6
                        |                        |                        | GHMD939 | Human Nutrition in Health and Disease                             | 6
                        |                        |                        | GHMD908 | Health Services Planning and Evaluation                           | 6
SCHEDULE 11
Honours Master of Nursing and Doctor of Philosophy
(Repeat same enrolment each year of study)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMB999 Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

Subject descriptions for GHMB - Refer to Department of Nursing
Subject descriptions for GHMD - Refer to Department of Public Health and Nutrition
Subject descriptions for GHMC - Refer to Department of Psychology

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

For the Doctor of Philosophy degree candidates enrol in the subject GHMB999 Thesis.

2. HONOURS MASTER OF NURSING (by Research) HONOURS MASTER OF NURSING (by Coursework and Research) AND MASTER OF NURSING

The Honours Master of Nursing by Research is intended to provide candidates with the opportunity to pursue a research program in a specialised field of nursing.

For Master of Nursing and Honours Master of Nursing by Research please refer to the Course Rules and note the following additions:

i. Applicants must hold a qualification in nursing which will enable them to gain authority to practise.

   Normal entry requirements are as stated in the Course Rules.

   (a) Candidates who successfully complete the Graduate Diploma in Nursing may apply for entry into the Master of Nursing Degree or Master of Nursing (Honours) Degree.

ii. A candidate will undertake an approved course recommended by the Head of the Department of Nursing;

iii. A candidate for the Master of Nursing: Please refer to the Pass Masters Degree rules and note the following additions:

   (a) a candidate who has completed a degree of Bachelor of Nursing or equivalent shall be eligible for admission into Master of Nursing Program.

iv. A person wishing to use previous postgraduate studies to qualify for admission to the Master of Nursing (Pass), or Master of Nursing (Honours) degree shall be expected to:

   (a) Master of Nursing (Pass), Master of Science (Pass):

      (i) carry 48 cp advanced standing from the graduate diploma into the Master of Nursing, Master of Science or Master of Indigenous Health Studies;

      (ii) complete 24 credit point major project or 24 cp of selected coursework subjects.

   (b) Master of Nursing (Honours)

      (i) carry 48 cp advanced standing from the Graduate Diploma into the Master of Nursing (Honours);

      (ii) carry 48 cp advanced standing from the Pass Master of Nursing to the Master of Nursing (Honours) with the additional requirement of 48 cp from thesis work; or

      (iii) proceed straight into 96 cp Master of Nursing (Honours) as per Course Rules.

v. A candidate wishing to use previous postgraduate studies obtained from institutions other than the University of Wollongong will be awarded credit consistent with the general regulations of the University of Wollongong;

vi. A candidate for the Honours Master of Nursing will successfully complete subjects with a total value of not less than 96 cp:

   (a) 24 cp will comprise the core subjects listed in Schedule 1;

   (b) 24 cp will be selected from Schedule 3;

   (c) a thesis consisting of the results of an investigation to the value of 48 cp; or

   (d) a minor thesis consisting of the results of an investigation whose credit point value is 24 together with satisfactory completion of directed study subjects to the value of 24 cp.

Candidates for this degree enrol in GHMB999.

3. MASTER OF SCIENCE (MIDWIFERY) (HONOURS)

The Master of Science (Honours, Midwifery) is a program that provides an opportunity for candidates to engage in advanced coursework studies in related subjects and to complete a research enquiry culminating in the submission of a minor thesis.

4. MASTER OF SCIENCE (MIDWIFERY)

The Master of Science (Midwifery) is to prepare graduates to function as autonomous practitioners in the professional practice of midwifery. On successful completion of the Master of Science (Midwifery), students who do not hold an authority to practice midwifery and have a current authority to
practise as a Registered Nurse (List A) are eligible to apply to the NSW Nurses Registration Board for an authority to practise.

5. MASTER OF NURSING

The Pass Masters degree is designed to prepare nurses for leadership roles in nursing and the health care system.

Candidates select subjects from Schedule 6. Refer to Section 2 above for further details.

6. MASTER OF SCIENCE (DEVELOPMENTAL DISABILITY)

Students enrolled in Master of Science (Developmental Disability) will have already completed the Graduate Diploma in Science (Developmental Disability). They will undertake a minor thesis on an aspect of developmental disability that consolidates earlier studies in developmental disability and research methodology.

7. THE GRADUATE CERTIFICATE, DIPLOMA AND MASTER OF INDIGENOUS HEALTH STUDIES

The Graduate Certificate, Diploma and Master of Indigenous Health Studies prepares graduates to work as autonomous health providers in urban and rural Indigenous communities.

8. GRADUATE DIPLOMA IN SCIENCE (DEVELOPMENTAL DISABILITY)

The Graduate Diploma in Science (Developmental Disability) is a multi-disciplinary course designed for health and education professionals providing direct care to people with developmental disabilities. It aims to provide an appropriate theoretical and conceptual framework for practice and access to contemporary information relating to developmental disability. The course consists of specialist developmental disability subjects and electives. Emphasis is on applying theoretical, research-based knowledge to practice in the developmental disability field.

9. GRADUATE DIPLOMA IN NURSING

(a) The Graduate Diploma in Nursing is a professional course in nursing which will provide preparation for the nurse who seeks an expanded role in the health system.

(b) The Graduate Diploma in Nursing provides nurses with the opportunity to develop skills and knowledge in a major area of nursing. Major areas of study include clinical education, critical care nursing, nursing management and research.

Applicants must hold a qualification to practise as a Registered Nurse or an equivalent authority to practise. Normal entry requirements are as stated in the Course Rules.

10. GRADUATE CERTIFICATE IN NURSING

The Graduate Certificate in Nursing is a short, focused, clinically based course having both academic and industry relevance. It is designed to give students the flexibility to choose subjects that allow professional development to occur in tandem with academic rigour. Candidates may exit following completion of the required subjects having acquired advanced knowledge in their chosen fields and having been prepared for advanced practice. On completion of the Graduate Certificate in Nursing candidates may elect to progress to the Graduate Diploma in Nursing.

SUBJECT DESCRIPTIONS

Where textbooks and/or co-ordinator are not specified, details will be made available at a later date.

**GHMB900 Nursing: The Professional Context**

Autumn 6 cp

Contact hrs: 3 hrs per week.

Students will be encouraged to explore nursing topics currently creating controversy and debate within the professional milieu of the nursing profession. Issues which impact on nursing education and management will be examined. Differences in management style, ward design and its impact on care delivery, nursing care delivery assignments, and nursing involvement in the public and private sector will be examined.

**GHMB902 Nursing Management**

Spring 6 cp

Contact hrs: 3 hrs per week.

The basic concept of nursing administration at the ward, middle management, and at senior levels will be introduced. Differences in management style, ward design and its impact on care delivery, nursing care delivery assignments, and nursing involvement in the public and private sector will be examined.

**GHMB903 Scientific and Qualitative Developments in Acute Care Nursing**

6 cp

Contact hrs: 3 hrs per week.

Pre-requisite: GHMB900

Investigates technological, biological, psychological and sociological developments that have created an impact in acute care nursing in recent times. Insights into specific technology and pharmacology used for diagnostic or therapeutic purposes by nurses and the Health team will be targeted, including their characteristics, uses and efficacies within an holistic nursing care framework.

**GHMB904 Modalities of Care: Mental Health**

Autumn 6 cp

Contact hrs: 3 hrs per week.

This subject addresses the most frequently used of therapeutic modalities from mental health nursing perspectives. Selected theoretical approaches are discussed for each treatment modality. Specific characteristics of each type of therapy are presented. In addition, the psychiatric nurse's role and goals for therapy are described and analysed.

**GHMB905 Special Topic in Nursing**

Autumn/Spring 12 cp

Contact hrs: 3 hrs per week.

The special topic in nursing will be selected from the list of current research areas provided by supervisors in the Nursing Department. The specific topic in nursing will be closely related to the research subjects and will consist of (i) a research proposal which will be expected to provide the basis for the major investigation and (ii) an investigation of a sub-topic within a major research enquiry being undertaken by the supervisor.

**GHMB906 Acute Care Nursing: Reflections on Practice**

Autumn 6 cp

Contact hrs: 3 hrs per week.

Focuses on relevant theories, themes and issues that have a practical bearing upon acute care nursing, and on models of acute care nursing that address evidence based practice. Practical aspects include pathophysiology of the Cardiovascular, Respiratory, Nervous and Alimentary systems and Acid Base balance; and Introduction to Electrocardiograph Interpretation.
GHMB907 Fundamental Concepts in Developmental Disability  
**Autumn** 6 cp  
Contact hrs: 3 hrs per week. 
Provides the basic scientific knowledge on which developmental disability practice is based. Emphasis upon the student gaining sound understanding of the nature of developmental disability and its complex interactions with society. The body of knowledge which defines and identifies the nature of the clientele and the philosophical and ethical foundations for practice will be addressed in this course.

GHMB908 Applied Behavioural Science For Developmental Disability Practice  
**Spring** 6 cp  
Contact hrs: 3 hrs per week.  
Pre-requisite: GHMB907.  
Developmental disability practice makes extensive use of such skills and roles as assessment, teaching, programming, behaviour management and supportive counselling. Therefore the student requires a knowledge of selected principles drawn from the behavioural sciences. This subject will provide the necessary theoretical framework, together with an emphasis on practical application and problem-solving skills.

GHMB909 Multiple Disability  
**Autumn** 6 cp  
Contact hrs: 3 hrs per week.  
Pre-requisite: GHMB907.  
The problems associated with clients with multiple disability are usually more complex and long-term than those of clients with a single disability. These clients present a particular challenge to staff and demand highly individualised and innovative care. Developmental disability may also be complicated by the stresses of transition through the life-cycle, by institutionalisation or by socio-economic problems.

GHMB910 Contemporary Issues in Developmental Disability  
**Autumn/Spring** 6 cp  
Contact hrs: 3 hrs per week.  
Pre-requisite: GHMB907.  
It is vitally important that practitioners in the field of developmental disability are willing to critically assess current practice and to objectively consider other service options. There are also a number of controversial issues in relation to the rights and responsibilities of people with developental disabilities that must be addressed.

GHMB920 Applied Midwifery Studies  
**Double (A)** 12 cp  
Contact hrs: 32 hours clinical practice (average).  
This subject is designed to prepare the student as an autonomous midwifery practitioner to care for the family throughout pregnancy, parturition and the puerperium. Clinical practice will consist of the experiences suggested by the NSW Nurses' Registration Board.

GHMB921 Reproductive Bioscience  
**Double (A)** 8 cp  
Contact hrs: 2 hrs per week.  
Designed to provide students with advanced knowledge of anatomy, physiology and pathophysiology related to conception, pregnancy and parturition. Biochemical, nutritional, genetic and teratogenic influences on conception and embryonic, foetal, neonatal and maternal development will be addressed. Technology used in assessment, diagnosis and intervention at all stages of the reproductive process will be explained.

GHMB922 Psychosocial Development of the Family  
**Autumn/Spring** 8 cp  
Assessment: Essays, 40% presentations.  
Contact hours: 2 hrs seminar per week.  
This subject will provide the student with an in depth knowledge of theory and research, on psychological, sociological and cultural influences during pregnancy, birth, and the antenatal period, and the implications of this for mental health throughout the lifespan.

GHMB923 Legal and Professional Issues  
**Spring** 6 cp  
Contact hrs: 2 hrs per week.  
This subject is designed to provide students with a knowledge of legal and professional issues in relation to their area of clinical practice. Relevant Australian legislation, appropriate case law and examples of moral reasoning will be used to provide a framework for clinical decision-making.

GHMB924 Midwifery Studies  
**Double Session (A)** 8 cp  
Contact hrs: 2 hrs per week.  
This subject provides the theoretical framework for the student to function as a safe beginning practitioner caring for childbearing women and families through pregnancy, labour and the puerperium. An evidence-based approach to clinical practice and an ability to review literature critically will be encouraged.

GHMB930 Clinical Education  
**Autumn** 6 cp  
Contact hrs: 3 hrs per week.  
The concepts and practice of clinical education will be introduced. Addressed will be issues relating to the role of the clinical educator; factors influencing student learning, teaching strategies and teaching resources in clinical settings, the clinical environment as an educational topic, and bridging the theory and practice gap. Clinical education research and the health professional responsibilities and leadership in clinical education will be discussed.

GHMB931 Clinical Supervision and Assessment  
**Autumn/Spring** 6 cp  
Contact hrs: 3 hrs per week.  
This subject covers the theoretical and practical aspects of clinical supervision and assessment within the health service context. It introduces the concept of competency based assessment, its origins, limitations and practical applications to assessment of professional performance. Students will critically assess and utilise a range of assessment tools and develop skills in assessing students both formatively and summatively. Practice experience in supervising performance and giving feedback will be included.

GHMB940 Indigenous Family Studies  
**Autumn/Spring** 6 cp  
Contact hrs: 3 hrs per week (week-ends).  
This subject examines traditional Aboriginal family structures, kinship systems, child-rearing practices, the role of women within the Aboriginal family and the health related situations in town-camps.

GHMB941 Indigenous Health Patterns  
**Autumn/Spring** 6 cp  
Contact hrs: 3 hrs per week (week-ends).  
This subject examines different approaches to the study of Aboriginal health, contemporary patterns of morbidity and mortality, various health services and the related needs and community empowerment.

GHMB942 Special Topic  
**Autumn/Spring** 12 cp  
Contact hrs: 2 hrs per week.  
This subject examines the factors affecting illness patterns, health care analysis, epidemiological considerations and health program delivery patterns about the topic under consideration in an Indigenous context. In addition, health audit procedures, service efficiency, service appropriateness and inter-agency co-ordination will be scrutinised in an Indigenous context.

GHMB989 Mental Health Nursing: Clinical Priciples and Practice  
**Double (A)** 12 cp  
Co-Requisites: GHMD971 & GHMD973.  
Students will combine theoretical underpinnings of mental health with a supervised clinical practice that will provide the opportunity to develop and refine clinical skills and interventions for people seriously affected by mental illness. Requirements for the clinical practice component will be based on best practice guidelines and students will utilise a reflective model to identify areas of professional development.

GHMB997 Major Project  
**Autumn/Spring/Double (A)** 24 cp  
Contact hrs: 3 hrs per week (Supervision & Seminars).  
This is a combined program of research and coursework leading to the completion of a major project. Students will be expected to work closely with a supervisor on a project where a common interest
exists.

GHMB998 Minor Thesis
Autumn/Spring/Double (A) 24 cp
Contact hrs: 3 hrs per week (Supervision & Seminars).
This is a major component of a combined coursework/thesis program in the Masters of Nursing undertaken by candidates enrolled in the Department of Nursing. A thesis must be submitted and assessed according to the Course Rules for Masters' Candidates. Thesis work is only commenced with the approval from the co-ordinator of the subject and the Head of the Nursing Department. Students will be required to present a seminar on their chosen thesis topic prior to completion of the thesis.

GHMB999 Major Thesis
Autumn/Spring/Double (A) 48 cp
Contact hrs: 3 hrs per week (Supervision & Seminars).
A thesis must be submitted and assessed according to the Course Rules for Masters' Candidates. Thesis work is only commenced with the approval from the co-ordinator of the subject and the Head of the Nursing Department. Students will be required to present a seminar on their chosen thesis topic prior to completion of the thesis.
PSYCHOLOGY

COURSES OFFERED

The following postgraduate courses are available:

1. Graduate Certificate in Cognitive Neuroscience
2. Graduate Diploma in Applied Psychology
3. Graduate Diploma in Psychodynamic Therapy
4. Master of Psychology (Clinical)
   Master of Psychology (Counselling)
   Master of Psychology (Sport & Exercise)
5. Doctor of Psychology (Clinical)*
   Doctor of Psychology (Counselling)*
   Doctor of Psychology (Sport & Exercise)
6. Doctor of Philosophy (Clinical Psychology)*
   Doctor of Philosophy (Counselling Psychology)*
   Doctor of Philosophy (Sport & Exercise Psychology)*
7. MA (Hons) by Research
8. PhD by Research

* New programs subject to the approval of the University

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Arts degree and the Doctor of Philosophy degree by research:

Clinical, community and health psychology, including clinical psychopathology and cognitive behaviour therapy, the psychology of drug dependence, constructivist approaches, and psychotherapy research.

Cognitive processes, in particular, attention, memory, reading, imagery and the human/computer interface.

Conditioning in humans: Comparative learning and cognition.

Lifespan development.

Metaheoretical issues in psychology.

Psychometrics and quantitative psychology.

Psychophysiology, including the orienting reaction, and psychophysiological indices of cognitive processes; applications in clinical populations.

Social psychology, in particular, social cognition and belief systems; social psychology of adolescent behaviour, dependency.

Sport and exercise psychology.

Theoretical approaches to psychology: Personal construct psychology, Jungian and transpersonal psychology, psychoanalytic child psychology.

Visual perception.

SCHEDULE OF PROGRAMS

**GRADUATE CERTIFICATES AND DIPLOMAS**

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(ii) Graduate Diploma in Psychodynamic Therapy

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<td>GHMC921</td>
<td>Observation of Young Children</td>
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(iii) Graduate Certificate in Cognitive Neuroscience

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<td>Cognitive and Affective Neuroscience</td>
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<td>GHMC966</td>
<td>Psychophysiology: Insights into Brain and Behaviour</td>
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<tr>
<td>GHMC967</td>
<td>Models of the Human Brain and their Applications</td>
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# MASTER OF PSYCHOLOGY PROGRAMS

Master of Psychology (Clinical), Master of Psychology (Counselling), and Master of Psychology (Sport & Exercise) degrees. The following subjects are completed by candidates of the above degrees:

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<td>GHMC926</td>
<td>Counselling Skills*</td>
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<td>GHMC932</td>
<td>Sociocultural Aspects of Applied Psychology</td>
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<td>GHMC934</td>
<td>Professional Workshop Series B</td>
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Candidates should also complete all subjects below from the relevant stream:

(i) **Master of Psychology (Clinical)**

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<td>GHMC970</td>
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(ii) **Master of Psychology (Counselling)**

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<td>GHMC940</td>
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<td>GHMC941</td>
<td>Insight Therapies</td>
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(iii) **Master of Psychology (Sport & Exercise)**

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Candidates should also complete all subjects below from the relevant stream:

(i) **Master of Psychology (Clinical)**

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# PROFESSIONAL DOCTORATES (3 YEARS FULL-TIME OR EQUIVALENT PART-TIME)

leading to the Doctor of Psychology (Clinical), Doctor of Psychology (Counselling), and Doctor of Psychology (Sport & Exercise) degrees. The following subjects are completed by candidates of the above degrees:

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Candidates should also complete all subjects below from the relevant stream:

(i) **Master of Psychology (Clinical)**

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* Students may take GHMC933 Professional Workshop Series A in lieu of GHMC926 Counselling Skills with permission from the Coordinator.

### (iii) Doctor of Psychology (Sport & Exercise)

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<td>GHMC955</td>
<td>Exercise Psychology</td>
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<td>GHMC956</td>
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<td>GHMC957</td>
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### Professional Doctorates of Philosophy (4 Years Full-Time or Equivalent Part-Time)

Doctor of Philosophy (Clinical Psychology), Doctor of Philosophy (Counselling Psychology), and Doctor of Philosophy (Sport & Exercise Psychology) degrees.

The following subjects are completed by candidates of the above degrees:

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<td>Practicum 2A</td>
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<tr>
<td>GHMC944</td>
<td>Practicum 2B</td>
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<tr>
<td>GHMC918</td>
<td>Thesis</td>
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Candidates should also complete all subjects from the relevant stream:

#### (i) Doctor of Philosophy (Clinical Psychology)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>GHMC919</td>
<td>Clinical Applications of Health Psychology</td>
<td>4</td>
</tr>
<tr>
<td>GHMC931</td>
<td>Clinical Neuropsychology</td>
<td>4</td>
</tr>
<tr>
<td>GHMC969</td>
<td>Advanced Cognitive Behavioural Therapy</td>
<td>8</td>
</tr>
<tr>
<td>GHMC970</td>
<td>Assessment &amp; Psychopathology A</td>
<td>8</td>
</tr>
<tr>
<td>GHMC971</td>
<td>Assessment &amp; Psychopathology B</td>
<td>8</td>
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#### (ii) Doctor of Philosophy (Counselling Psychology)

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<tr>
<th>Number</th>
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<tr>
<td>GHMC932</td>
<td>Sociocultural Aspects of Applied Psychology</td>
<td>4</td>
</tr>
<tr>
<td>GHMC937</td>
<td>Assessment for Counsellors</td>
<td>8</td>
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<tr>
<td>GHMC940</td>
<td>Group and Family Counselling</td>
<td>8</td>
</tr>
<tr>
<td>GHMC941</td>
<td>Insight Therapies</td>
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<tr>
<td>GHMC945</td>
<td>Advanced Counselling Skills</td>
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#### (iii) Doctor of Philosophy (Sport & Exercise Psychology)

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<th>Subject</th>
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<tr>
<td>GHMC919</td>
<td>Clinical Applications of Health Psychology</td>
<td>4</td>
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<tr>
<td>GHMC954</td>
<td>Sport Psychology</td>
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<tr>
<td>GHMC955</td>
<td>Exercise Psychology</td>
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<tr>
<td>GHMC956</td>
<td>Contemporary Issues in Sport and Exercise Psychology</td>
<td>6</td>
</tr>
<tr>
<td>GHMC957</td>
<td>Introduction to Assessment</td>
<td>4</td>
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<tr>
<td>GHMC968</td>
<td>Introduction to the Sport Sciences</td>
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### Research Degrees

Honours Master of Arts (2 years full-time or equivalent part-time) and Doctor of Philosophy (3 years full-time or equivalent part-time)
Each year students enrol in one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>GHMC998</td>
<td>Honours Masters by Research</td>
<td>48</td>
</tr>
<tr>
<td>GHMC999</td>
<td>Doctor of Philosophy Thesis</td>
<td>48</td>
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</table>

* Students may take GHMC933 Professional Workshop Series A in lieu of GHMC926 Counselling Skills with permission from the Coordinator.

**COURSE REQUIREMENTS**

1. **GRADUATE DIPLOMA IN APPLIED PSYCHOLOGY**

The Graduate Diploma in Applied Psychology is a new postgraduate fourth year of study for graduates with a major in Psychology. It is intended for those who are interested in studying Psychology at an advanced level, as an alternative to the Honours degree.

2. **GRADUATE DIPLOMA IN PSYCHODYNAMIC THERAPY**

To qualify for entry candidates must have: a 4 year degree either in psychology or in a relevant discipline from an approved tertiary institution; work experience in some field of professional activity; and engagement in personal development work (recent or current). The program will normally involve 4 academic sessions of part-time study. The program requires the successful completion of 48 credit points, including 8 credit points of supervised psychodynamic psychotherapy practica as described in the Schedule of Programs.

3. **GRADUATE CERTIFICATE IN COGNITIVE NEUROSCIENCE**

The Graduate Certificate in Cognitive Neuroscience is available to graduates with undergraduate degrees deemed appropriate by the Head of Department.

The course provides an opportunity for graduates to begin formal studies in Cognitive Neuroscience. It will be of particular interest to those with undergraduate training in Psychology, Medicine, Biomedical Science or Human Movement Science, but also of interest to those with a background in Electrical Engineering or Computer Science.

It is available in the external mode, with some residential requirements, via PAGE or WOL. It is also available, with a similar fee structure, in an on-campus mode over 1 or 2 sessions.

The Graduate Certificate requires successful completion of 24 credit points made up as follows:

- 8 credit points each:
  - GHMC964 Cognitive and Affective Neuroscience
  - GHMC966 Psychophysiology: Insights into Brain and Behaviour
  - GHMC967 Models of the Human Brain and their Applications

Students with appropriate backgrounds may be permitted, by the Head of Department, to replace GHMC966 by an individual project (GHMC959 Research Project).

4. **MASTER OF PSYCHOLOGY (CLINICAL)**

The degree of Master of Psychology will be subject to the Honours Masters Degree Rules together with the following conditions. Entry to the Master of Psychology program will be from an Honours degree in Psychology at a standard of Class II, Division 2 or its equivalent. The program will involve four sessions of full-time study or their equivalent part-time. The program requires the successful completion of at least 96 credit points from the Schedule of Graduate Subjects in Psychology as follows:

- (i) at least 44 credit points from the CORE subjects as described in the Schedule of Programs (Master of Psychology), (including 16 credit points in supervised practical clinical experience).
- (ii) a further 28 credit points of subjects from the relevant stream (Clinical/Counselling/Sport & Exercise) as described in the Schedule of Programs (Master of Psychology).
- (iii) 24 credit points of independent but supervised research in the subjects:
  - GHMC946 Research Project A
  - GHMC947 Research Project B

5. **DOCTOR OF PSYCHOLOGY (CLINICAL)**

To qualify for entry candidates must have an Honours Bachelor Degree of at least Class II, Division 1 standard. The program will normally involve six academic sessions of full-time or equivalent part-time study. Full-time students are required to present for examination not later than 8 academic sessions from the date of registration. The program for Doctor of Psychology candidates will require successful completion of:

- (i) a supervised research program on a topic which is in the field of Clinical/Counselling/Sport & Exercise Psychology respectively. The research program will be written up as a thesis and constitutes half of the program.
- (ii) at least 44 credit points from the CORE subjects as described in the Schedule of Programs (Professional Doctorates), (including 16 credit points in supervised practical experience).
- (iii) a further 28 credit points of subjects from the relevant stream (Clinical/Counselling/Sport & Exercise) as described in the Schedule of Programs (Professional Doctorates).

Coursework will be graded in the same manner as coursework completed by candidates for the degree of Master of Psychology. Award of the degree of Doctor of Psychology is governed by the University Rules for the award of Doctoral degrees as described elsewhere.
6. **DOCTOR OF PHILOSOPHY (CLINICAL PSYCHOLOGY)**
**DOCTOR OF PHILOSOPHY (COUNSELLING PSYCHOLOGY)**
**DOCTOR OF PHILOSOPHY (SPORT & EXERCISE PSYCHOLOGY)**

To qualify for entry to the Doctor of Philosophy professional degrees, candidates must have an Honours Bachelor Degree of at least Class II, Division 1 standard. The program will normally involve eight academic sessions of full-time or equivalent part-time study. Full-time students are required to present for examination not later than 10 academic sessions from the date of registration. The program for the professional PhD candidates will require successful completion of:

(i) a supervised research programme on a topic which is in the field of Clinical/Counselling/Sport & Exercise Psychology respectively. The research programme, to be written up as a thesis, constitutes two-thirds of the program.
(ii) 32 credit points from the CORE subjects as described in the Schedule of Programs (Professional Doctorates of Philosophy), (including 16 credit points in supervised practical experience).
(iii) a further 32 credit points of subjects from the relevant stream (Clinical/Counselling/Sport & Exercise) as described in the Schedule of Programs (Professional Doctorates of Philosophy).

7. **HONOURS MASTER OF ARTS BY RESEARCH**

To qualify for entry to the Master of Arts (Honours) by Research candidates must have a good Honours degree of at least Class II, Division 2 or its equivalent. However, only a limited number of places are available, so the required standard may well be higher than this. The usual minimum period of study is two years full-time. For part-time study the duration will be approximately twice as long. Candidates for this research degree enrol in GHMC 998.

8. **DOCTOR OF PHILOSOPHY**

To qualify for entry to the Doctor of Philosophy research degrees, candidates must have a good Honours degree of at least 2(6) standard.

However, only a limited number of places are available, so the required standard may well be higher than this. This degree is a three year full-time degree, the usual minimum period of study. For part-time study the duration will be approximately twice as long. Candidates for this research degree enrol in GHMC999.

**SUBJECT DESCRIPTIONS**

Where textbooks and/or subject co-ordinators, assessment are not specified, details will be made available in the subject outlines provided to students at the beginning of each session.

**GHMC903 Research Skills for Clinical Psychologists**

Double (A) 8 cp

Contact hrs: 2hrs lecture/Seminar per week.

Assessment: seminar presentations.

This subject has been designed to prepare its participants to conduct rigorous and yet useful research in clinical psychology. It aims to develop the research expertise in these specific areas: evaluation of the existing clinical psychology research literature; selection of viable clinical problems for research; development of research projects/programs; preparation and evaluation of funding proposals; consultation about the research; and awareness and minimizing of ethical problems in clinical research.

**GHMC904 Psychoanalytic Concepts and Processes**

Autumn 4 cp

Contact hrs: 1.5 hrs lecture/seminar per week.

Assessment: essay, case analysis

This subject introduces the principal concepts of classical psychoanalytic theory, covering both general psychoanalytic psychology and clinical theory. The subject then moves on to key developments in modern psychoanalytic theory and therapeutic practice, introducing the works of the object relations theorists, ego psychologists and self theorists. The last part of the subject deals with the relation between psychoanalysis and other therapeutic theories and the principal criticisms made of psychoanalytic theory and practice.

**GHMC905 Infant Observation**

Double (A) 8 cp

Contact hrs: 1.5 hrs lecture/discussion per week.

Assessment: essay on concepts, and infant observation reports

Co-requisite: GHMC904

Each student will be required to observe an infant from birth in his or her home and in interaction with family members, involving 40 hours of observation and 60 hours of written recording. Class discussion will focus on conscious and unconscious meanings of these events. Approval will be sought from the Ethics Committee, and will entail informed consent from parents.

**GHMC908 Professional Issues in Psychology**

Spring 4 cp

Contact hrs: 1.5 hrs lecture/discussion/ group work per week.

Assessment: report on personal learning or group process, case report on ethical or legal issues.

The subject focuses on issues relevant to clinical psychologists ranging from personal awareness and exploration, through interactions with small groups, to ethical, inter-professional, health and welfare policy, quality assurance and legal issues for all age groups. Legal issues include legal obligation, psychology and the law, criminal law, malpractice liability and possible sources of conflict of interest in court work.

**GHMC910 Child and Family Psychology**

Autumn 4 cp

Contact hrs: 1.5 hrs of lecture/discussion per week.

Assessment: Essay on models, in class exam, case report

The subject examines models of assessment and intervention within the context of typical and atypical child development from a Scientist practitioner framework. Topics will include work with children, parents and families concerned with emotional and behavioural disorders, learning difficulties, ADHD problems, anxiety disorders, and depression.

**GHMC912 Research Project**

Double (A) 24 cp

Students are required to design and carry out a small research project under supervision (relevant to Clinical Psychology & subject to the availability of supervision). To fulfil the requirements of this course the student will: review the relevant literature and formulate a valid and testable hypothesis; give an oral presentation of the theoretical background; collect, analyse and interpret those data; report their findings in the form of an article suitable for a refereed journal of their choice.

**GHMC914 Major Thesis**

This thesis for the Doctor of Psychology (Clinical/Counselling/Sport & Exercise) requires one and a half years full-time study or its part-time equivalent.

**GHMC918 Major Thesis**

This thesis for the Doctor of Philosophy (Clinical/Counselling/Sport & Exercise) comprises 128 credit points which is equivalent to two and a half years full-time study or its part-time equivalent.

* This subject will not be available in 1998
This practicum is composed of 250 hours of individually and group supervised work with adolescents and adults, in which a set of professional skills are further developed. The placements in which that will occur will include the university-based Northfields Clinic, Illawarra and Sydney agencies. One placement should consist of at least 125 hours, to ensure an understanding of the personal factors, the group processes in the agency and its institutional structures.

GHMC926 Counselling Skills
Autumn
4 cp
Contact hrs: 1.5 hrs lecture/seminar
Assessment: transcript analysis, videotape evaluation of applied counselling skills and participation
The subject focuses on the development of counselling skills from a client-centred and CBT perspective. A workshop format involving roleplay, observation, feedback and discussion will be used. The subject will examine concepts and procedures of cognitive therapy, and its application to a range of problems.

GHMC931 Clinical Neuropsychology
Autumn
4 cp
Contact hrs: 2 hrs lecture/seminar
Assessment: seminar presentation, assignments, examinations
This subject aims to introduce students to neuroanatomy and theories of neuropsychological assessment. The subject will deal with: basic brain anatomy; principles of neuropsychological assessment; administration and interpretation of neuropsychological tests; neuropsychological report writing; neuropsychological disorders; alcohol related brain damage

GHMC932 Sociocultural Aspects of Applied Psychology
Autumn
4 cp
Contact hrs: 1.5 hrs lecture/seminar per week
Assessment: seminar presentations, case analysis
This subject deals with the sociocultural nature of, and the various sociocultural influences on, psychological theory and practice. This includes sociocultural influences on psychologists and their values, and the sociocultural factors that affect concepts of the person, and which shape theories and modes of psychological intervention. The subject also deals with the impact of sociocultural factors upon the expectations, attitudes and values of both psychologists and their clients in psychological interventions.

GHMC933 Professional Workshop Series A
Autumn
4 cp
(Participation in 26 hrs of lecture/skills-training sessions per year)
Assessment: case work and/or essay based on specified workshops
The subject aims to orient students to a wide variety of approaches and skills pertinent to specialised areas in professional psychology, and to develop skills in one or more designated areas. The subject includes a number of workshop sessions related to the practice of professional psychology and conducted by qualified persons from both within the University and from external agencies who have expertise in an area of professional practice.

GHMC934 Professional Workshop Series B
Spring
4 cp
(Participation in 26 hrs of lecture/skills-training sessions per year)
Assessment: case work and/or essay based on specified workshops, final examination.
The subject aims to orient students to a wide variety of approaches and skills pertinent to specialised areas in professional psychology, and to develop skills in one or more designated areas. The subject includes a number of workshop sessions related to the practice of professional psychology and conducted by qualified persons from both within the University and from external agencies who have expertise in an area of professional practice.

GHMC937 Assessment for Counsellors
Spring
8 cp
Contact hrs: 3 hrs seminar/workshop per week
Assessment: case report, demonstration of competencies in use of assessment instruments, short essay tests
This subject focuses on the use of a variety of psychological tests and structured interview profiles dealt with in a counselling framework. The subject will enable counsellors to identify and clearly establish the precise nature of the problems manifested by their clients. Students will conduct interviews and assessments with clients within an ongoing process of assessment and therapeutic intervention that fits into a scientist practitioner framework, developing a treatment plan.
and formulation based on the assessment.

**GHMC938 Practicum 1A**  
**Autumn**  
Contact hrs: 20 hrs lecture/demonstration plus 150 hrs practicum experience under supervision.  
Assessment: assessment and/or therapy reports, field placement notebooks.  
The lecture/demonstration sessions are intended to prepare students for client contact under supervision. The practicum is composed of 150 hours of supervised case-work from the Northfields Clinic and/or an external agency. The student will be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback.  

**GHMC939 Introduction to Cognitive Behavioural Therapy**  
**Autumn**  
Contact hrs: 2 hrs lecture/seminar per week.  
Assessment: audio or video-taped, written examination  
The subject aims to provide students with an understanding of the theoretical principles underlying cognitive behavioural therapy (CBT), the theoretical rationale for cognitive-behavioural techniques, an overview of outcome research on and the practical applications of CBT in clinical and non-clinical settings. Preliminary skills with regard to conduct of behavioural assessments, relaxation and systematic-desensitization therapies will be demonstrated.  

**GHMC940 Group and Family Counselling**  
**Spring**  
Contact hrs: 3 hrs seminar/workshop.  
Assessment: case reports, demonstration of competencies in counselling and groupwork and family therapy skills using video and audio tape assessment, essays.  
The subject will focus on the development and application of key competencies in a range of advanced counselling and groupwork skills drawn from a systemic family therapy approach and a brief solution-oriented framework. Students will be expected to develop a range of skills that can be applied to a number of counselling situations. In particular, interventions with difficult or resistant clients and work with trauma and debriefing situations will be examined.  

**GHMC941 Insight Therapies**  
**Spring**  
Contact hrs: 3 hrs seminar/workshop.  
Assessment: case reports, demonstration of competencies in counselling skills using video and audio tape assessment, essays.  
The subject will outline the principles and methodologies of Personal Construct and Gestalt Therapy. From a Personal Construct perspective, students will learn to use a number of approaches. The subject will provide an overview of Gestalt Therapy with an emphasis on the integration of the theory, skills and practice of counselling. The philosophy, principles and methodology of both approaches will be examined and applied to specific disorders, populations and situations, and generic counselling approaches.  

**GHMC942 Practicum 1B**  
**Spring**  
Contact hrs: 20 hrs lecture/demonstration plus 150 hrs practicum experience under supervision.  
Assessment: Psychological assessment and/or therapy reports, field placement notebooks, reports from external supervisors.  
The practicum is composed of 300 hours of case-work from the Northfields Clinic and/or an external agency. The student will be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult services, however when considered together with GHMC942 and GHMC944, exposure to a wide range of clinical/applied contexts (specified elsewhere) will be required.  

**GHMC943 Practicum 2A**  
**Autumn** (full-time students) or  
**Spring** (part-time students)  
Contact hrs: 300 hrs practicum experience under supervision.  
Assessment: case presentation, field placement notebooks, reports from external supervisors, assessment and/or therapy reports.  
The practicum is composed of 250 hours of case-work from the Northfields Clinic and/or external agencies. The student might be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult services, however when considered together with GHMC938 and GHMC944, exposure to a wide range of clinical/applied contexts (specified elsewhere) will be required.  

**GHMC944 Practicum 2B**  
**Spring**  
Contact hrs: 250 hrs practicum experience under supervision.  
Assessment: psychological assessment and/or therapy reports, field placement notebooks, reports from external supervisors, audiotape of therapy session.  
Pre-requisite: GHMC938  
The practicum is composed of 250 hours of case-work from the Northfields Clinic and/or external agencies. The student might be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult services, however when considered together with GHMC938, and GHMC943, exposure to a wide range of clinical/applied contexts will be required.  

**GHMC945 Advanced Counselling Skills**  
**Spring**  
Contact hrs: 1.5 hrs seminar/workshop.  
Assessment: written competency exercises  
Pre-requisite: GHMC926  
This subject aims to teach advanced skills used in counselling and the research and theoretical basis behind the use of those skills. The student will consider the research evidence for various interventions and how they may contribute to therapeutic progress. Training will include use of role-play and videotaped feedback.  

**GHMC946 Research Project A**  
**Double (A)**  
**Spring**  
Contact hrs: 1 hr lecture/individual or team supervision of research project.  
Assessment: research proposal with review of literature  
Pre-requisite: GHMC958 or its equivalent  
This subject aims to equip students with a wide variety of research skills required for professional psychology. The content will cover the conceptual bases, aims, context, sampling, designs, and methods of data collection (quantitative and qualitative). Ethical problems in the conducting of research are also considered. The student will be required to write up a research proposal including a comprehensive review of the pertinent literature.  

**GHMC947 Research Project B**  
**Spring**  
Contact hrs: 1 hr lecture/individual or team supervision of research project.  
Assessment: project report 100%  
Pre-requisite: GHMC946 Research Project A  
This subject along with GHMC946 Research Project A aims to equip students with a wide variety of research skills required for professional psychology. Besides the content covered under Research Project A, principles and procedures governing selection and implementation of data analyses will be discussed. Students will develop skills to evaluate research critically and interpret data. Students will develop and conduct a research project in a relevant area of professional psychology, and submit a project report in the format of a journal article.  

**GHMC952 Professional Skills for Psychologists**  
**Autumn**  
Contact hrs: 2 hrs lecture/tutorial.  
Assessment: audio-taped interview, seminar presentations, final examination.  
The subject aims to provide students with preliminary counselling skills including strategies that facilitate rapport, trust, and behavioural and attitudinal change within a counselling context. Criteria and requirements for Registration as a Psychologist will be addressed. Small group sessions will involve the use of role-play to demonstrate, rehearse and shape basic counselling skills.
GHMC954 Sport Psychology
Taught by the University of Western Sydney. See Department for details.

GHMC955 Exercise Psychology
Autumn 6 cp
Contact hrs: 2 hrs lecture, 1 hr tutorial
Assessment: final exam, project, oral presentation.
This subject is concerned with examining and applying the theories, models, and scientific literature that addresses Physiological factors that affect exercise and rehabilitation performance. Topics will include models of health behaviour, constructs of motivation, effective exercise leadership, effects of exercise on coping with stress, examining links between personality and health/illness, exercise for special populations, and cognitive and behavioural strategies and intervention that promote exercise adherence and compliance.

GHMC956 Contemporary Issues in Sport and Exercise Psychology
Spring 6 cp
Contact hrs: 3 hrs lecture/seminar.
Assessment: essay, seminar presentation, class participation.
This subject aims to identify, review and debate issues from the contemporary sport and exercise psychology literature. Examples include: qualifications to practise as a sport psychologist, use of anabolic steroids and other banned substances, homosexuality in sport, gender and equity issues, participation in sport of individuals testing positive for HIV, ethics, delegating resources toward elite sport as opposed to community sport participation, and application of sport psychology interventions to exercise and rehabilitation.

GHMC957 Introduction to Assessment
Spring 4 cp
Contact hrs: 3 hrs seminar/workshop per fortnight.
Assessment: case report, demonstration of competencies in use of assessment instruments.
This subject will utilise a range of structured interview profiles and screening instruments designed to identify a range of anxiety or dysfunctional attitudes and beliefs that would be considered as maladaptive. The subject will assist students to identify and clearly establish the precise nature of the problems manifested by their clients. Students will learn to use a number of assessment instruments within an ongoing process of assessment and intervention that fits into a scientist practitioner framework.

GHMC959 Research Project
Double (A) 8 cp
This subject involves the completion of a single empirical study carried out in a group, though written up individually. A list of the available research topics will be distributed at the time of acceptance into the course. Following expression of students' preferences, students will be assigned to a supervisor and group.

GHMC961 Assessment in Applied Psychology
Double (A) 8 cp
Contact hrs: 2 hrs lecture/seminar per fortnight.
Assessment: two assignments involving 3 reports in total worth 50% each.
Pre-requisite: PSYC235 or its equivalent, plus eligibility to MSc(Pass).
This is a skills oriented course aimed at providing students with the opportunity to administer, score and interpret psycho-logical tests under supervision. Assessment techniques used in a number of fields of applied psychology will be studied. In addition, attention will be devoted to ethical standards in psychological assessment.

GHMC962 Counselling Psychology
Spring 8 cp
Contact hrs: 3 hrs lecture/practical or equivalent.
Assessment: taped transcript analysis, major essay, videotaped counselling skills assignment.
This subject will initially focus on a microskills approach to working with clients. A workshop format with roleplay, observation, feedback and discussion will be used. Students will be expected to develop a critical and analytical understanding of the conceptual and developmental framework from which different counselling orientations can develop. In order to provide students with an alternative but complementary framework from which counselling can proceed the second half of the course will examine a cognitive behavioural approach.

GHMC964 Cognitive and Affective Neuroscience*
Autumn 8 cp
Contact hrs: 2 hrs lecture/seminar per week and 18 hrs laboratory per session.
Assessment: a 1 session external course with residential requirements.
Pre-requisites: GHMC966 or PSYC352 or its equivalent.
The emphasis in this subject will be on the use of physiological measures to explore human brain function in relation to a range of psychological concepts such as arousal, stress, anxiety and depression, personality, perception, learning, cognition. The subject will include laboratory sessions developing expertise in electrophysiological recording, involvement in on-going departmental research, and a small individual pilot project (which may form the basis for subsequent independent research).

GHMC966 Psychophysiology: Insights into Brain and Behaviour*
Autumn and/or Spring 8 cp
(external course with residential requirement; also available on campus)
Assessment: weekly quizzes, practical reports, examinations.
Pre-requisite: a three year undergraduate degree deemed appropriate by the Head of Department.
The subject will present psychophysiology as the systematic study of peripheral and central physiological correlates of perceptual and cognitive functioning. Students will be required to attain a basic level of proficiency in the electrical recording and assessment of a range of peripheral measures (including muscle, respiratory, cardiovascular, and electrodermal activity), as well as the traditional central indicators (EEG and event related potentials). Practical skills will be developed in two residential weekends.

GHMC967 Models of the Human Brain and their Applications*
Autumn and/or Spring 8 cp
(external course, also available on campus)
Assessment: assignments.
Pre-requisite: a three year undergraduate degree deemed appropriate by the Head of Department.
The biophysics of human brain function is the frame of reference for all subject content. It explores a broad range of approaches, including evolutionary and anatomical models of the brain, models of electrical and metabolic brain function, psychological models of the brain, artificial neural networks and artificial intelligence models, the mind/body problem, psychoanalytic and psychotherapy models, brain imaging technologies, application of brain models to psychology, medicine, artificial neural networks and artificial intelligence, and human-computer interactions.

GHMC968 Introduction to the Sport Sciences
Taught by the University of Western Sydney. See Department for details.

GHMC969 Advanced Cognitive Behavioural Therapy
Spring 8 cp
Contact hrs: 4 hrs lecture/seminar.
Assessment: audio-tape of therapy conducted by student, examination.
Pre-requisite: GHMC939.
The subject aims to provide students with training in the practical applications of cognitive behavioural therapy (CBT) in clinical settings among both adult and child populations. Topics will include: rationale for the selection of treatment strategies, description of therapeutic procedures, and outcome research for a wide range of disorders including anxiety, mood, eating, substance abuse and chronic psychiatric disorders. Training methods will include demonstration of therapy, role-play and feedback sessions.

GHMC970 Assessment and Psychopathology A
Autumn 8 cp
Contact hrs: 4 hrs lecture/seminar.
Assessment: seminar/case presentations, audio/video tape of assessment interview, psychological test reports.
Pre-requisites: GHMC968 or its equivalent.
The subject aims to provide students with an overview of descriptive psychopathology. Issues surrounding models of abnormal behaviour and the classification of mental disorders will be examined. The signs and symptoms associated with psychological disorders and the assessment of these conditions by clinical interview and by psychological tests will be covered. The subject also covers the theoretical rationale and procedures for administration, scoring and interpretation of core psychological tests. Ethical issues will also be examined.

GHMC971 Assessment and Psychopathology B
Spring 8 cp
Contact hrs: 4 hrs lecture/seminar.
Assessment: seminar/case presentations, audio-tape of assessment interview, psychological test reports.
Pre-requisite: GHMC970
The subject aims to provide students with an overview of descriptive psychopathology. Issues surrounding models of abnormal behaviour and the classification of mental disorders will be examined. The signs and symptoms associated with severe disorders and the assessment of these conditions by clinical interview and by psychological tests will be covered. The subject also covers the theoretical rationale and procedures for administration, scoring and interpretation of psychological tests. Ethical issues will also be examined.

GHMC975 Health Psychology
Spring 6 cp
Contact hrs: 2 hrs lecture/seminar.
Assessment: essay, take home exam, program and evaluation presentations, and final research report.
This subject will address key theoretical and empirical issues in the area of Health Psychology. A range of psychological principles will be applied in designing a program to improve health and well being. Topics that will be examined in this course include drug and alcohol problems, stress and coping, pain management, and psychological factors related to exercise, dieting and weight control.

GHMC976 Assessment in Applied Psychology
Double (A) 6 cp
Contact hrs: 2 hrs lecture/seminar per fortnight or equivalent
Assessment: two assignments (involving two reports in total) worth 50% each
This is a skills oriented course aimed at providing students with the opportunity to administer, score and interpret psychological tests under supervision. Assessment techniques used in a number of fields of applied psychology will be studied. In addition, attention will be devoted to ethical standards in psychological assessment.

GHMC977 Counselling Psychology
Spring 6 cp
Contact hrs: 2.5 hrs lecture/practical.
Assessment: tape transcript analysis, short report, videotaped counselling skills assignment.
This subject initially focuses on a microskills approach to working with clients. A workshop format with role-play, observation, feedback and discussion is used. Students will be expected to develop a critical and analytical understanding of the conceptual and developmental framework from which different counselling orientations can develop. In order to provide students with an alternative but complementary framework from which counselling can proceed, the second half of the course will examine a cognitive behavioural approach.

GHMC978 Child and Adolescent Psychology
Autumn/Spring 6 cp
Contact hrs: 2 hrs lecture/seminar per week or equivalent.
Assessment: assignments 70%, take home examination 30%
This subject focuses on a range of childhood and adolescent concerns or problem behaviours within a broad developmental framework. The subject will provide students with a general introduction to the specific problems and needs of children, adolescents and parents who present at community health or child guidance clinics. Problems such as conduct disorders, attention deficit hyperactive disorders, school based adjustment and learning problems, anxiety disorders, problems of abuse and adolescent health risk behaviours will be examined.

GHMC979 Major Research Project 18cp
Double (A) 18 cp
Contact hrs: 1 hr seminar per week or equivalent.
Assessment: empirical study report of between 6,000 and 8,000 words
Students complete an empirical study on a research topic chosen from given areas of staff expertise. Projects may be conducted in small groups, however, write-ups will be completed and assessed individually. Weekly research seminars consist of discussion of the research process, selecting a topic, and enhancing writing and oral presentation skills.

GHMC998 Thesis
(Honours Masters by Research)

GHMC999 Thesis
(Doctor of Philosophy)
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Doctor of Public Health
3. Honours Master of Science
4. Master of Public Health
5. Master of Science
   a) Environmental Health*
   b) Health Policy and Management
   c) Mental Health
   d) Occupational Health and Rehabilitation
6. Graduate Diploma in Public Health
7. Graduate Diploma in Science
   a) Environmental Health*
   b) Health Policy and Management
   c) Mental Health
   d) Occupational Health and Rehabilitation
8. Graduate Certificate in
   a) Health Policy and Management
   b) Mental Health
   c) Public Health Research Methods

Programs in Mental Health, Public Health and Health Policy and Management are also offered by distance education. Please contact the Department directly for further details.

CURRENT RESEARCH AREAS

Supervision in the following areas of research is likely to be available to candidates undertaking the Doctor of Philosophy, the Doctor of Public Health and the Honours Master of Science.

- Cardiovascular disease prevention
- Environmental Health
- Health information systems
- Health policy and management
- Health promotion
- Health services development and evaluation
- Health and society
- Mental health
- Nutrition (Obesity, Diabetes)

SCHEDULE OF PROGRAMS

RESEARCH DEGREES

1. DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy (PhD) is available to candidates in the major research areas of the Department of Public Health and Nutrition for which supervision is available, normally, Public Health, Environmental Health, Health Policy and Management, Mental Health, Nutrition, Health Information Systems, Epidemiology, Medical Anthropology. The PhD provides supervised research training in a program of not less than three years duration (full-time).

Admission details and regulations governing the award are set out in the General Information: Postgraduate Admission section of the Calendar.

Potential candidates should discuss their research plan with the Head of Department at which time the supervision arrangements of the Department will be outlined. Research will be in an area of research expertise of a member of the Department. Research seminars are held in Autumn and Spring session to assist research students in exchanges about research methodology and research content. Opportunities exist for outstanding candidates to gain scholarship support by application to the University. Details of Research Scholarships are listed under Conditions of University Postgraduate Research Awards in the General Information section of the Calendar.

2. DOCTOR OF PUBLIC HEALTH

The Doctor of Public Health (DrPH) is a professional degree granted on successful completion of an approved program of coursework and an independent and original investigation of a significant problem in public health and the presentation of the research as an acceptable thesis. This degree prepares students for leadership positions in the health sector, that would require advanced analytical or conceptual capabilities.

The DrPH usually takes at least three years full time study. There will be no advance standing granted for previous graduate study at Masters level. The coursework involves at least one year full time (48 credit points) in both required and elective courses. The research component of the program involves at least two years of full-time work after the coursework component. Admission to the research component requires the development of a suitable research proposal at the end of which the student sits the qualifying examination. On successful completion of the qualifying examination the student undertakes the research under supervision. At the end of this period the student will submit a thesis for examination under the regulations for Doctoral theses of the University.

* Not on offer in 1998
Entry requirements:
To qualify for entry to the program candidates must have a Master of Public Health degree or equivalent, usually at (at least) credit level, or an Honours Bachelor degree of at least Class II, Division 1 standard in a relevant discipline followed by the equivalent of one year full time relevant and approved postgraduate study.

A student should preferably have two or more years of appropriate professional experience and have demonstrated potential capacity for leadership in the area of specialisation. Applicants should submit a record of professional experience and names of two appropriate referees.

Applicants may also be admitted with a Master's or higher degree outside the field of Public Health.

Coursework
Individual coursework programs should be decided in conjunction with the Head of Department. Applicants who have not had a background in Public Health may be advised to take four core coursework subjects listed below. Some applicants may be advised to undertake specialised programs in preparation for their research.

1. GHMD904 Epidemiology
2. GHMD905 Social Foundations of Public Health
3. GHMD983 Statistics in Health Research
4. GHMD984 Health Research Methodology

The minimum period for the completion of the degree of Doctor of Public Health will be six academic sessions of full time study. Full time students are required to submit their thesis not later than eight academic sessions from the date of candidature.

Through an agreement with the School of Public Health, University of California (Berkeley), it is expected that selected Doctor of Public Health students will be able to spend one session at the University of California (Berkeley) advancing research and/or coursework interests which are part of their approved program of study.

3. HONOURS MASTER OF SCIENCE

The degree of Honours Master of Science is designed to provide supervised training in independent research. For candidates who are admitted with an Honours Bachelor degree or with Master of Public Health equivalent, the program will consist of 48 credit points of research leading to the submission of a thesis. For candidates who are admitted with a Bachelor degree the program will consist of 96 credit points, involving research leading to the submission of a thesis, and possibly directed coursework in research design, methodology and skills, or in other areas.

Research should be in an area of research expertise of a member of the Department of Public Health and Nutrition. Potential candidates should discuss their research interest with the coordinator of the program and present a research project title and general outline. Once a supervisor has been approved the candidate will undertake an approved course recommended by the Departmental Head. Requirements are specified in the Honours Masters Degree Rules.

POSTGRADUATE PROGRAM IN HEALTH POLICY AND MANAGEMENT

leading to the degree of Master of Science (Health Policy and Management) or the Graduate Diploma in Science (Health Policy and Management) or the Graduate Certificate in Health Policy and Management.

Number Subject Credit Points

(i) Master of Science (Health Policy and Management) Part-time Course

<table>
<thead>
<tr>
<th>First Year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD909</td>
<td>Comparative Health Systems; Policies and Politics</td>
<td>6</td>
</tr>
<tr>
<td>ACCY969</td>
<td>Financial Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON918</td>
<td>Economics of Health Care</td>
<td>6</td>
</tr>
<tr>
<td>GHMD924</td>
<td>Health Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>LAW960</td>
<td>Legal Studies for Professionals</td>
<td>6</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Students may select one of the following options:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GHMD904</td>
<td>Epidemiology</td>
<td>6</td>
</tr>
<tr>
<td>and three electives selected from the subjects listed below under &quot;Electives&quot;, or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GHMD997</td>
<td>Major Project*</td>
<td>24</td>
</tr>
</tbody>
</table>

*Students who select the Major Project option please note:

1. membership of the Australian College of Health Service Executives requires completion of GHMD904 Epidemiology in place of ECON918 Economics of Health Care;
2. GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project and should be taken in place of GHMD908 Health Services Planning and Evaluation.

(ii) Graduate Diploma in Science (Health Policy and Management) Part-Time Course

<table>
<thead>
<tr>
<th>First Year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD909</td>
<td>Comparative Health Systems; Policies and Politics</td>
<td>6</td>
</tr>
<tr>
<td>ACCY969</td>
<td>Financial Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>Number</td>
<td>Subject</td>
<td>Credit Points</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
<td>6</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD924</td>
<td>Health Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Health Services Planning and Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Electives may be selected from the list of core subjects or elective subjects in the Master of Science (Health Policy and Management) with the agreement of the Head of Department. Candidates for the Graduate Diploma who have specific credit given for any of the above compulsory subjects are required to undertake elective study to make up the total credit points. The additional subjects can be selected from subjects in the Master program (core or elective) in consultation with the Program Co-ordinator.

Students who seek membership of the Australian College of Health Service Executives need to complete GHMD904 Epidemiology and LAW960 Legal Studies for Health Professionals.

**(iii) Graduate Certificate in Health Policy and Management**

The Graduate Certificate requires the completion of 4 subjects selected from the following:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON918</td>
<td>Economics of Health Care</td>
<td>6</td>
</tr>
<tr>
<td>GHMD905</td>
<td>Social Foundations of Public Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD909</td>
<td>Comparative Health Systems, Policies and Politics</td>
<td>6</td>
</tr>
<tr>
<td>GHMD924</td>
<td>Health Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>ACCY969</td>
<td>Financial Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Statistics in Health Research</td>
<td>6</td>
</tr>
</tbody>
</table>

**Electives**

The electives for the Master degree may be chosen from the subjects listed below or from the Public Health Schedules. The electives for the Graduate Diploma may be chosen from the Master degree and the subjects listed below. In addition, candidates can substitute other subjects offered at a postgraduate level at the University with approval of the Head of Department.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD907</td>
<td>Independent Study in Public Health</td>
<td>6</td>
</tr>
<tr>
<td>GSMB902</td>
<td>Nursing Management</td>
<td>6</td>
</tr>
<tr>
<td>GHMD905</td>
<td>Social Foundations of Public Health</td>
<td>6</td>
</tr>
<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MGMT915</td>
<td>Management of Change</td>
<td>6</td>
</tr>
<tr>
<td>MGMT938</td>
<td>Managing Services Marketing</td>
<td>6</td>
</tr>
<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
<tr>
<td>GHMD984</td>
<td>Health Research Methodology</td>
<td>6</td>
</tr>
<tr>
<td>MGMT947</td>
<td>Quality Management</td>
<td>6</td>
</tr>
</tbody>
</table>

**POSTGRADUATE PROGRAM IN MENTAL HEALTH**

leading to the degree of Master of Science (Mental Health) or the Graduate Diploma in Science (Mental Health) or the Graduate Certificate in Mental Health.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**(i) Master of Science (Mental Health)**

**Schedule 1**

Core Subjects

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD905</td>
<td>Social Foundations of Public Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD965</td>
<td>Principles and Practices of Psychosocial Rehabilitation</td>
<td>6</td>
</tr>
<tr>
<td>GHMD970</td>
<td>Comprehensive Systems of Mental Health Care</td>
<td>6</td>
</tr>
<tr>
<td>GHMD971</td>
<td>Assessment and Diagnosis in Mental Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD973</td>
<td>Case Management in Mental Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
<td>6</td>
</tr>
</tbody>
</table>

*together with at least two subjects from the following:*

**Schedule 2**

Electives

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON918</td>
<td>Economics of Health Care</td>
<td>6</td>
</tr>
<tr>
<td>GHMD904</td>
<td>Epidemiology</td>
<td>6</td>
</tr>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD907</td>
<td>Independent Study in Public Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Health Services Planning and Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>GHMD909</td>
<td>Comparative Health Systems, Policies and Politics</td>
<td>6</td>
</tr>
<tr>
<td>GHMD913</td>
<td>Drug Problems and Issues</td>
<td>6</td>
</tr>
<tr>
<td>ACCY969</td>
<td>Financial Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD976</td>
<td>Supervised Clinical Practice</td>
<td>6</td>
</tr>
<tr>
<td>GHMD984</td>
<td>Health Research Methodology</td>
<td>6</td>
</tr>
</tbody>
</table>
Schedule 3
together with either
24 credit points of further course work from the elective subjects listed above, or

| GHMD984  | Major Project | 24 |

Note: GHMD984 Health Research Methodology is a pre-requisite for GHMD987 Major Project.

A candidate for the Master of Science specialising in Mental Health shall undertake a 72 credit point program. This includes all core subjects listed in Schedule 1 (ie 36 credit points) and the Major Project (GHMD987) of 24 credit points, or 24 credit points of further course work including GHMD984, together with at least 12 credit points of additional course work chosen from Schedule 2 of this program.

Subject to approval relevant subjects from other programs may also be taken as electives.

(ii) Graduate Diploma in Science (Mental Health)

Schedule 1 Core Subjects

| GHMD905 | Social Foundations of Public Health | 6 |
| GHMD965 | Principles and Practices of Psychosocial Rehabilitation | 6 |
| GHMD970 | Comprehensive Systems of Mental Health Care | 6 |
| GHMD971 | Assessment and Diagnosis in Mental Health | 6 |
| GHMD973 | Case Management in Mental Health | 6 |
| GHMD983 | Statistics in Health Research | 6 |

together with 2 subjects from the following:

Schedule 2 Electives

| ECON918 | Economics of Health Care | 6 |
| GHMD904 | Epidemiology | 6 |
| GHMD906 | Quality Management for Health Services | 6 |
| GHMD907 | Independent Study in Public Health | 6 |
| GHMD908 | Health Services Planning and Evaluation | 6 |
| GHMD909 | Comparative Health Systems: Policies and Politics | 6 |
| GHMD913 | Drug Problems and Issues | 6 |
| ACCY969 | Financial Management for Health Services | 6 |
| GHMD976 | Supervised Clinical Practice | 6 |
| GHMD984 | Health Research Methodology | 6 |

A candidate for the Graduate Diploma in Science specialising in Mental Health shall undertake a 48 credit point program. This includes all subjects listed in Schedule 1 of this Diploma (ie 36 credit points) with at least 12 credit points chosen from Schedule 2 of this Diploma or from the Health Policy and Management Schedules. Subject to approval relevant subjects from other programs may also be taken as electives.

(iii) Graduate Certificate in Mental Health

A candidate for the Graduate Certificate in Mental Health shall undertake a 24 credit point program. This includes four of the five subjects below:

| GHMD965 | Principles and Practices of Psychosocial Rehabilitation | 6 |
| GHMD970 | Comprehensive Systems of Mental Health Care | 6 |
| GHMD971 | Assessment and Diagnosis in Mental Health | 6 |
| GHMD973 | Case Management in Mental Health | 6 |
| GHMD906 | Quality Management for Health Services | 6 |

POSTGRADUATE PROGRAM IN OCCUPATIONAL HEALTH AND REHABILITATION

leading to the degree of Master of Science (Occupational Health and Rehabilitation) or the Graduate Diploma in Science (Occupational Health and Rehabilitation).

Number Subject Credit Points

(i) Master of Science (Occupational Health and Rehabilitation)

Schedule 1 Core Subjects

| GHMA914 | Ergonomics | 8 |
| GHMD904 | Epidemiology | 6 |
| GHMD905 | Social Foundations of Public Health | 6 |
| GHMD906 | Quality Management for Health Services | 6 |
| GHMD940 | Principles and Practice of Occupational Health | 6 |
| GHMD941 | Occupational Hygiene and Industrial Toxicology | 6 |
| GHMD983 | Statistics in Health Research | 6 |

Plus - Additional subjects to make up 72 cp chosen from Schedule 2 of this degree

Schedule 2 Electives

| ECON918 | Economics of Health Care | 6 |
| GHMD908 | Health Services Planning and Evaluation | 6 |
| GHMD909 | Comparative Health Systems: Policies and Politics | 6 |
| GHMD987 | Major Project | 24 |
| LAW960 | Legal Studies for Professionals | 6 |
| MGMT953 | Human Resource Management | 6 |
| GHMD984 | Health Research Methodology | 6 |
A candidate for the MSc specialising in Occupational Health and Rehabilitation shall undertake a program of at least 72 credit points which includes subjects listed in Schedule 1 of this degree, including either a major project (GHMD997) of 24 credit points or 30 credit points of further coursework from subjects listed in Schedule 2 of this degree.

Note: GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tbody>
</table>

(ii) Graduate Diploma in Science (Occupational Health and Rehabilitation)

Schedule 1

<table>
<thead>
<tr>
<th>Core Subjects</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMA914</td>
<td>Ergonomics</td>
</tr>
<tr>
<td>GHMD904</td>
<td>Epidemiology</td>
</tr>
<tr>
<td>GHMD905</td>
<td>Social Foundations of Public Health</td>
</tr>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
</tr>
<tr>
<td>GHMD940</td>
<td>Principles and Practice of Occupational Health</td>
</tr>
<tr>
<td>GHMD941</td>
<td>Occupational Hygiene and Industrial Toxicology</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
</tr>
<tr>
<td></td>
<td>plus 6 cp chosen from Schedule 2 of this degree</td>
</tr>
</tbody>
</table>

Schedule 2

<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON918</td>
<td>Economics of Health Care</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Health Services Planning and Evaluation</td>
</tr>
<tr>
<td>GHMD909</td>
<td>Comparative Health Systems: Policies and Politics</td>
</tr>
<tr>
<td>GHMD984</td>
<td>Health Research Methodology</td>
</tr>
<tr>
<td>LAW960</td>
<td>Legal Studies for Professionals</td>
</tr>
<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
</tr>
</tbody>
</table>

Note: GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project.

POSTGRADUATE PROGRAM IN PUBLIC HEALTH

leading to the degree of Master of Public Health or the Graduate Diploma in Public Health or the Graduate Certificate in Public Health Research Methods.

International students admitted to candidature in the Master of Public Health will discuss their educational needs with the coordinator and may have a program of study specified which will best meet their requirements.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
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<td></td>
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</tbody>
</table>

(i) Master of Public Health

Schedule 1: MPH Core Subjects

<table>
<thead>
<tr>
<th>Core Subjects</th>
<th></th>
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<tbody>
<tr>
<td>GHMD904</td>
<td>Epidemiology</td>
</tr>
<tr>
<td>GHMD905</td>
<td>Social Foundations of Public Health</td>
</tr>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
</tr>
<tr>
<td>GHMD912</td>
<td>Health Promotion</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
</tr>
<tr>
<td>GHMD984</td>
<td>Health Research Methodology</td>
</tr>
<tr>
<td></td>
<td>plus 36 cp chosen from elective subjects</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON918</td>
<td>Economics of Health Care</td>
</tr>
<tr>
<td>GHMD951</td>
<td>Health Psychology</td>
</tr>
<tr>
<td>GHMD903</td>
<td>Public Health Communication and Data Skills</td>
</tr>
<tr>
<td>GHMD907</td>
<td>Independent Study in Public Health</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Health Services Planning and Evaluation</td>
</tr>
<tr>
<td>GHMD909</td>
<td>Comparative Health Systems: Policies and Politics</td>
</tr>
<tr>
<td>GHMD913</td>
<td>Drug Problems and Issues</td>
</tr>
<tr>
<td>GHMD925</td>
<td>Aboriginal Health Issues*</td>
</tr>
<tr>
<td>GHMD936</td>
<td>Public Health Nutrition</td>
</tr>
<tr>
<td>GHMD981</td>
<td>Practical Applications of Service Delivery in Maternal Health</td>
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<tr>
<td>GHMD985</td>
<td>Applied Epidemiology</td>
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<tr>
<td>GHMD986</td>
<td>Environmental Health</td>
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<tr>
<td>GHMD987</td>
<td>Risk Assessment</td>
</tr>
<tr>
<td>GEOS964</td>
<td>Food and Development Studies</td>
</tr>
<tr>
<td>GHMD988</td>
<td>Health Program Evaluation and Outcomes Research</td>
</tr>
<tr>
<td>GHMD997</td>
<td>Major Project</td>
</tr>
<tr>
<td>SOC936</td>
<td>Sociology, Ethics and Health</td>
</tr>
<tr>
<td>SOC942</td>
<td>Advanced Race and Ethnic Studies</td>
</tr>
<tr>
<td>SOC961</td>
<td>Women, Migration and Development</td>
</tr>
<tr>
<td>GEOS963</td>
<td>Population Dynamics, Analysis and Policy</td>
</tr>
<tr>
<td>GEOS965</td>
<td>Asian Development</td>
</tr>
<tr>
<td>SOC918</td>
<td>Advanced Sociology of Development</td>
</tr>
<tr>
<td>SOC940</td>
<td>Contemporary Social Policy Theory and Practice</td>
</tr>
<tr>
<td>SOC959</td>
<td>Advanced Studies of Gender in Society</td>
</tr>
<tr>
<td>Number</td>
<td>Subject</td>
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<tr>
<td>STS910</td>
<td>Gender and Body Politics</td>
</tr>
<tr>
<td>STS936</td>
<td>Critical Studies in Medicine and Health Care</td>
</tr>
<tr>
<td>STS947</td>
<td>Case Studies in Science and Technology Policy</td>
</tr>
</tbody>
</table>

Plus other subjects from the Department schedule with approval from the subject co-ordinator.

Note: GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project. Students must have the permission of the Co-ordinator to undertake GHMD907 or GHMD997.

(ii) Graduate Diploma in Public Health

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD904</td>
<td>Epidemiology</td>
<td>6</td>
</tr>
<tr>
<td>GHMD905</td>
<td>Social Foundations of Public Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD912</td>
<td>Health Promotion</td>
<td>6</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
<td>6</td>
</tr>
</tbody>
</table>

together with subjects selected from the Master of Public Health Schedule and subjects from other departments approved by the Head of Department for a total of 48 credit points of coursework.

(iii) Graduate Certificate in Public Health Research Methods (external only)

Entrants to the course normally hold a three year undergraduate degree (or equivalent). In special circumstances, an applicant holding other acceptable qualifications and with relevant work experience of not less than two years may be admitted to studies.

The Graduate Certificate will be awarded on successful completion of 24 credit points of coursework, selected from the following subjects.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD904</td>
<td>Epidemiology</td>
<td>6</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Health Planning and Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>GHMD924</td>
<td>Health Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
<td>6</td>
</tr>
<tr>
<td>GHMD984</td>
<td>Health Research Methodology</td>
<td>6</td>
</tr>
</tbody>
</table>

*Not on offer in 1998.

POSTGRADUATE PROGRAM IN ENVIRONMENTAL HEALTH

leading to the degree of Master of Science (Environmental Health) or the Graduate Diploma in Science (Environmental Health).

(i) Master of Science (Environmental Health)*

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD904</td>
<td>Epidemiology</td>
<td>6</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
<td>6</td>
</tr>
<tr>
<td>GHMD984</td>
<td>Health Research Methodology</td>
<td>6</td>
</tr>
<tr>
<td>GHMD985</td>
<td>Applied Epidemiology</td>
<td>6</td>
</tr>
<tr>
<td>GHMD986</td>
<td>Environmental Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD987</td>
<td>Risk Assessment: Essential Methods and Techniques</td>
<td>6</td>
</tr>
<tr>
<td>ENVI921</td>
<td>Environmental Planning</td>
<td>8</td>
</tr>
<tr>
<td>STS931</td>
<td>Risk Assessment, Health and Safety</td>
<td>6</td>
</tr>
</tbody>
</table>

*Not on offer in 1998.

Enrolment in the Major Project will be contingent on the availability of supervision of the project and evidence of former successful research or project work by the student. The content matter must also fit with the research program carried out at the University.

The option exists to satisfy requirements for MSc (Environmental Health) by coursework only. This would require the substitution for the Major Project of 24 cp from the following electives:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD903</td>
<td>Public Health Communication and Data Skills</td>
<td>6</td>
</tr>
<tr>
<td>GHMD905</td>
<td>Social Foundations of Public Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD906</td>
<td>Quality Management for Health Services</td>
<td>6</td>
</tr>
<tr>
<td>GHMD909</td>
<td>Comparative Health Systems: Policies and Politics</td>
<td>6</td>
</tr>
<tr>
<td>GHMD940</td>
<td>Principles and Practice of Occupational Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD941</td>
<td>Occupational Hygiene and Industrial Toxicology</td>
<td>6</td>
</tr>
<tr>
<td>LAW960</td>
<td>Legal Studies for Professionals</td>
<td>6</td>
</tr>
<tr>
<td>STS929</td>
<td>Studies in Resource and Environmental Policy#</td>
<td>6</td>
</tr>
</tbody>
</table>

or other subjects offered by the University with the approval of the Head of Department.

(ii) Graduate Diploma in Science (Environmental Health)*

Core Subjects

* Not on offer in 1998
COURSE REQUIREMENTS

2. MASTERS DEGREES BY COURSEWORK AND RESEARCH

2.1 MASTER OF PUBLIC HEALTH

The Public Health Courses are available for on-campus attendance, nationally or internationally by distance education (DE580), through Wollongong On Line (WOL)

a) Master of Public Health

A candidate for the Master of Public Health shall undertake at least a 72 credit point program.

Public Health is the discipline area associated with the efforts made by society to protect, promote and restore the people's health. Health is defined as a state of well-being, not just the absence of disease; the goals of public health include the promotion of health as well as prevention of disease, premature death, and disease-produced discomfort and disability in the population.

The Master of Public Health degree structure includes a number of core and elective subjects listed in the Schedule of Programs. Intending students requiring further course information should apply to the Department of Public Health and Nutrition.

Candidates successfully completing the Graduate Diploma in Public Health may seek admission to the Master of Public Health degree.

2.2 MASTER OF SCIENCE

a) Master of Science (Environmental Health)*

The Environmental Health courses combine 2 short (summer) courses, distance education through Wollongong On Line (WOL), on-campus subjects and video-conferencing.

Many government and industry institutions have legal obligations in environmental health. This course is designed for those wishing to pursue a career in environmental health or for those already in the field who wish to improve their understanding of health and environmental risk assessment and management, environmental epidemiology and toxicology, with a focus on health rather than the technical aspects of environmental science.

Course Structure

A candidate for the Master of Science (Environmental Health) will successfully complete a 72 credit point program. This includes 48 credit points of Core Subjects. The remaining 24 credit points can be gained in one of two ways:

a) by undertaking 24 credit points of elective subjects; or
b) by undertaking GHMD997 Major Project (24 credit points).

Entry Requirements

Pre-requisites to enrol in the Masters Program include a foundation in chemistry, mathematics and health sciences. Entrants to the course should normally hold a three year undergraduate degree (or equivalent) in a relevant discipline.

Enrolment in the Major Project will be contingent on availability of supervision and evidence of former successful research or project work by the student. The content matter must also agree with the subjects covered in the current research program of the University.

b) Master of Science (Health Policy and Management)

The Health Policy and Management courses are available for on-campus attendance or nationally, by distance education (UW574), through the Professional and Graduate Education Consortium (PAGE) or Wollongong On Line (WOL).

The aim of this degree is to provide advanced study which develops professional health service managers and enhances their competence for senior management roles in the health industry. The degree is intended for graduates in health service management and other related health professions wishing to pursue a management career.

Professional Recognition

The degree has been accredited by the Australian College of Health Service Executives and the Royal Australian College of Medical Administrators.

* Not on offer in 1998
Course Structure
The course develops the candidate's ability to address health service management problems and challenges in a logical and analytical manner. It emphasizes the social and environmental factors impacting on the manager's task and the dynamic and pluralistic nature of health service management. The candidate acquires concepts and knowledge relevant to the work of senior health service managers.

The course requires the completion of 72 credit points including eight core subjects (48 credit points). The remaining 24 credit points can be gained in one of two ways:

a) by undertaking GMD904 Epidemiology and three electives; or
b) by undertaking GHMD997 Major Project (24 credit points).

Entry Requirements
Entrants to the course should normally hold a three year undergraduate degree (or equivalent) in a relevant discipline together with a minimum of four years of relevant work experience. In special circumstances, an applicant holding other acceptable academic qualifications and with relevant work experience of not less than four years may be admitted as a candidate. For students with less than four years of relevant work experience, a planned one session program of field experience is required in addition to the course work.

c) Master of Science (Mental Health)

Also available (DES74) externally through Wollongong On Line (WOL).

The postgraduate mental health program responds to national priorities to equip a) the mental health workforce, and b) the general health workforce, for comprehensive, community-based treatment and rehabilitation of people suffering from serious mental illness. The program is multidisciplinary and in line with the National Mental Policy and Plan, provides knowledge and supervised skills for case-management, rehabilitation, health services management and mental health research.

The Mental Health program is available on-campus attendance or nationally, by distance education, through Wollongong On Line (WOL)

Course Structure
The course can be undertaken full-time over 18 months or part-time over 3 years. The Master of Science (Mental Health) degree, is designed with the part-time student in mind within the on-campus program. There are approximately four hours of contact per week for the part-time candidate and wherever possible, classes are scheduled on one afternoon per week beginning at 1:30pm.

The course requires the completion of 72 credit points including six core subjects and 2 electives (48 credit points). The remaining 24 credit points can be gained in one of two ways:

a) by undertaking four approved elective subjects totalling at least 24 credit points; or
b) by undertaking GHMD997 Major Project (24 credit points).

GHMD994 Health Research Methodology is a pre-requisite for this option.

Course Requirements
A candidate for the Master of Science (Mental Health) will successfully complete a 72 credit point program. This includes 36 credit points of coursework from the core schedule, 24 credit points for Major Project, and 12 credit points chosen from the elective schedule. Students who wish to complete the degree by course work only, as detailed in point (a) above, may select this option with approval from the course coordinator.

The course is multidisciplinary and is open to appropriately qualified health professionals interested in further education and training in mental health.

Entry requirements include:
(i) a relevant 3 year undergraduate degree or equivalent from an approved tertiary institution; and
(ii) two years (minimum) of relevant experience in the field.

Candidates satisfactorily completing the Graduate Diploma in Science (Mental Health) may seek admission to the Master of Science program.

Assessment
Assessment of coursework is the responsibility of the subject coordinator and the Assessment Committee. All other Rules shall be as for the Graduate Diploma in this Calendar.

d) Master of Science (Occupational Health and Rehabilitation)

The aim of this degree is to provide advanced study which develops knowledge and professional skills for practice in Occupational Health and/or Rehabilitation Services. The degree is intended for graduates in a health-related discipline who wish to advance their career by working in an Occupational Health or Rehabilitation setting.

Course Design
This program provides core studies in Public Health and specialist subjects in Occupational Health and Rehabilitation, including research skill training in relation to a current issue in Occupational Health or Rehabilitation.

The Department has developed close relationships with BHP Port Kembla, and The Institute of Rehabilitation and Geriatrics of the Illawarra Area Health Service which support this program. Industry-relevant teaching and research opportunities are available to students through participation from senior professionals in Occupational Health and Rehabilitation.

Course Structure
The degree of Master of Science (Occupational Health and Rehabilitation) requires the satisfactory completion of at least 72 credit points, including at least 48 credit points of coursework and either 24 credit points of major research project or 24 credit points of further coursework. The course can be undertaken full-time over one and a half years or part-time over three years. In some sessions, subjects are timetabled to ensure that the part-time load (2 subjects per session) can be undertaken in one half-day of attendance on campus.

Entry Requirements
Students admitted to the Masters Degree normally hold a Bachelor Degree, plus at least one year of relevant work experience. In special circumstances an applicant who holds other acceptable academic qualifications and with relevant work experience may be admitted as a candidate.
3. GRADUATE DIPLOMAS

3.2 GRADUATE DIPLOMA IN SCIENCE

a) Graduate Diploma in Science (Environmental Health)
*Not on offer in 1998

The Graduate Diploma in Science (Environmental Health) is designed to cater for environmental health professionals in government or industry settings who want to upgrade their knowledge, or for Public Health Officers with an interest in environmental issues.

Course Structure
The course can be undertaken full-time over one year or part-time over two years. As with the Master of Science (Health Policy and Management), degree the course is designed with the part-time student in mind. The course requires a total of at least 48 credit points by satisfactory completion of subjects outlined in the accompanying schedule.

Entry Requirements
Entrants to the course normally hold a three year degree (or equivalent) together with a minimum of four years of relevant work experience. In special circumstances an applicant holding other acceptable academic or professional qualifications and with relevant work experience of not less than four years may be admitted as a candidate. For students with less than four years of relevant work experience, a planned one session program of field experience is required in addition to the course work.

b) Graduate Diploma in Science in Health Policy and Management

Also available externally (DE650) through Wollongong On Line (WOL).

The aim of this course is to provide skills and knowledge to function effectively as a health service manager. The course is intended to cater for a variety of health and health related professionals wishing to pursue a management career within the health industry.

Professional Recognition
This course has been accredited by the Australian College of Health Service Executives as an appropriate qualification for membership.

Course Design
The course develops the candidate's ability to manage pro-actively and to address problems in a logical and analytical manner. It emphasises the social and environmental factors impacting on the manager's task and the dynamic and pluralistic nature of health service management.

Course Structure
The course can be undertaken full-time over one year or part-time over two years. As with the Master of Science (Health Policy and Management) degree the course is designed with the part-timer in mind. The course requires a total of at least 48 credit points by satisfactory completion of subjects outlined in the accompanying schedule. A brief description of each subject appears in this calendar.

Articulation with the Master of Science (Health Policy and Management)
Candidates who successfully complete the Graduate Diploma may apply for admission to the Master of Science (Health Policy and Management). Candidates who undertake the Master of Science degree following completion of the Graduate Diploma in Science (Environmental Health) must surrender the testamur prior to the conferring of the Master degree. The five core subjects of the Graduate Diploma also form part of the core subject requirements of the Master program.

Entry Requirements
Entrants to the course normally hold a relevant degree or other acceptable qualifications, together with one year of work in a relevant health area.

Candidates who undertake the Master of Science degree following completion of the Graduate Diploma in Science (Health Policy and Management) must surrender the testamur prior to the conferring of the Master degree. The five core subjects of the Graduate Diploma also form part of the core subject requirements of the Master program. The Master of Science degree requires the completion of a major project or four additional subjects selected from those listed for the Master of Science (Health Policy and Management) one of which must be GHMD904: Epidemiology.

Candidates who successfully complete the Graduate Diploma may apply for admission to the Master of Science (Health Policy and Management) degree. Candidates who undertake the Master of Science degree following completion of the Graduate Diploma in Science (Health Policy and Management) must surrender the testamur prior to the conferring of the Master degree. The six core subjects of the Graduate Diploma also form part of the core subject requirements of the Master program. The Master of Science degree requires the completion of a major project or four additional subjects selected from those listed for the Master of Science (Health Policy and Management) one of which must be GHMD904: Epidemiology.

Entry Requirements
Entrants to the course normally hold a three year degree (or equivalent) together with a minimum of four years of relevant work experience. In special circumstances an applicant holding other acceptable academic or professional qualifications and with relevant work experience of not less than four years may be admitted as a candidate. For students with less than four years of relevant work experience, a planned one session program of field experience is required in addition to the course work.

Candidates who undertake the Master of Science degree following completion of the Graduate Diploma in Science (Health Policy and Management) must surrender the testamur prior to the conferring of the Master degree. The five core subjects of the Graduate Diploma also form part of the core subject requirements of the Master program. The Master of Science degree requires the completion of a major project or four additional subjects selected from those listed for the Master of Science (Health Policy and Management) one of which must be GHMD904: Epidemiology.

Entry Requirements
Entrants to the course normally hold a relevant degree or other acceptable qualifications (eg. Registered Nursing

*Not on offer in 1998
Entry requirements will be as for Graduate Diploma Rules paragraphs 5(1), 5(2a), 5(2c) and 5(3) in this Calendar including at least 1 year of appropriate experience in the field.

Assessment
Assessment of course work is the responsibility of the subject coordinator and the Assessment Committee. All other Rules shall be as for the Graduate Diploma in this Calendar.

Articulation with the Master of Science (Mental Health)
The Graduate Diploma articulates with The Master of Science (Mental Health) in that students who successfully complete the Diploma may apply for advanced standing in 48 credit points of course work in the Master of Science degree. (Note that GHMD984 is a pre-requisite for enrolling in the Major Project).

On completion of the requirements for the Master of Science and prior to graduation, a student who has received the Graduate Diploma of Science (Mental Health) will be required to surrender the testamur in order to receive the Master of Science degree.

d) Graduate Diploma in Science (Occupational Health and Rehabilitation)
The aim of this course is to provide the knowledge and industry experiences necessary to successfully work as a practitioner in Occupational Health and Rehabilitation services. The course is intended to cater for a multidisciplinary group of students who have gained their primary qualifications in a health-related discipline and who seek a career in Occupational Health and Rehabilitation services.

The Graduate Diploma articulates with the Master of Science (Occupational Health and Rehabilitation) in that students who successfully complete the Diploma may apply for advanced standing in 50 credit points of course work in the Master of Science degree.

Course Design
The course is designed to provide a broadening education in core Public Health knowledge and skill of relevance to Occupational Health and Rehabilitation and specialised knowledge in the conceptual, legal, and professional foundations of Occupational Health and Rehabilitation practice.

Course Structure
The course can be undertaken full-time over one year or part-time over two years. As with the Master of Science degree, the Diploma is designed with the part-time student in mind, in that wherever possible, the two subjects of the part-time load can be undertaken by attendance at the campus for one half-day per week.

Satisfactory completion of the Graduate Diploma requires that at least 48 credit points of course work in the relevant schedules will have been undertaken.

Entry Requirements
Admission to the course is normally by applicants who hold a relevant degree together with a minimum of one year of work in the health or human service setting. In special circumstances an applicant holding other acceptable academic or professional qualifications may be admitted to studies.

4. GRADUATE CERTIFICATES

4.1 Graduate Certificate in Health Policy and Management
Also available externally (UW693) through the Professional and Graduate Education Consortium (PAGE) or Wollongong On Line (WOL). The aim of this course is to provide an introduction to advanced professional education for health service managers in the concepts, theories, approaches and practices of health policy and management.

Course Design
The course provides students with the opportunity to gain a qualification in health service management in a flexible manner, including a wide choice of subjects and a manageable investment of time and money.

Articulation with the Graduate Diploma in Science (Health Policy and Management)
Students who complete the Graduate Certificate may, on application, be granted advanced standing totalling 24 credit points towards the award of the Graduate Diploma in Science (Health Policy and Management). On completion of the requirements for the Graduate Diploma and prior to graduation, a student who has received the Graduate Certificate will be required to surrender the testamur in order to receive the Graduate Diploma.

Entry Requirements
Entrants to the course normally hold a three year degree (or equivalent) together with a minimum of four years of relevant work experience. In special circumstances an applicant holding other acceptable academic or professional qualifications and with relevant work experience of not less than four years may be admitted as a candidate. For students with less than four years of relevant work experience, a planned one session program of field experience is required in addition to the course work.

Course Structure
The Graduate Certificate will be awarded on successful completion of 24 credit points of course work, selected from the six subjects listed previously for this award.

Professional Recognition
For members of the Australian College of Health Service Executives, successful completion of individual subjects attracts Continuing Professional Development (CPD) credit.

4.2 Graduate Certificate in Mental Health
Also available externally (DE693) through Wollongong On Line (WOL). The aim of this course is to provide an introduction to advanced professional education for mental health practitioners in current legislation and policy regarding the care of people with serious mental illness and recent developments in concepts, theories, and practices of mental health intervention including assessment, diagnosis, treatment and rehabilitation.
Course Design
The course provides students with the opportunity to gain a qualification in mental health in a flexible manner, including a manageable investment of time and money.

Entry Requirements
Admission to the course is normally by applicants who hold a relevant degree or other acceptable qualifications (e.g.; Registered Nursing Certificate), together with a minimum of one year of work in a mental health service setting. In special circumstances an applicant holding other acceptable academic or professional qualifications may be admitted to studies.

For students with less than one year of relevant work experience, a planned one session program of field experience is required in addition to the course work.

Course Structure
The Graduate Certificate will be awarded on successful completion of 24 credit points of course work, selected from core mental health subjects of the Graduate Diploma in Science (Mental Health), ie GHMD970, GHMD971, GHMD973 and GHMD965.

4.3 Graduate Certificate in Public Health Research Methods
Available externally (DE693) only through Wollongong On Line.
The aim of this course is to provide health professionals with the opportunity to develop primary competencies in public health research and evaluation.

Course Design:
The course provides students with the opportunity to gain a qualification in public health research in a flexible manner, including a choice of subjects and a manageable investment of time and money.

Entry Requirements:
Entrants to the course normally hold a three year undergraduate degree (or equivalent). In special circumstances, an applicant holding other acceptable qualifications and with relevant work experience of not less than two years may be admitted to studies.

Course Structure:
The Graduate Certificate will be awarded on successful completion of 24 credit points of course work.

On completion of the Graduate Certificate in Public Health Research Methods, students may apply to enter the Graduate Diploma in Public Health. Successful applicants will be required to complete a further 24 credit points of coursework from the Diploma Schedule.

EXTERNAL COURSES
Currently, three programs of study are available externally: Health Policy and Management, Mental Health and Public Health. They are available through Wollongong On Line (WOL). Health Policy and Management is also available through the Professional and Graduate Education (PAGE) Consortium and the University of Wollongong.

SUBJECT DESCRIPTIONS
Where textbooks and/or subject co-ordinators, and assessment are not specified, details will be made available in the subject outlines provided to students at the beginning of each session.

GHMD903 Public Health Communication and Data Skills
Refer Department 6 cp
The aim is to acquire and practise a number of skills using public health examples. With the agreement of the co-ordinator, the student selects 3 modules. Modules include: 1) Epi-Info including small case-studies; 2) Communication in public health including interviews, written and oral presentation; 3) Information sources including library and Internet searches with presentation of results; 4) Other statistical software packages such as SAS and EXCEL.

GHMD904 Epidemiology
Spring 6 cp
Pre-Requisite: GHMD983 or approval from the Co-ordinator. Principles and methods of epidemiological investigation including analytic and experimental epidemiology. Topics to be covered are: measurement in epidemiology, descriptive epidemiology, screening, design of case-control and cohort studies, analysis of studies, critical appraisal, clinical trial design, biological inference and causality.

GHMD905 Social Foundations of Public Health
Autumn 6 cp
Introduces students to theories and concepts from the social sciences necessary for the understanding and analysis of public health issues. Topics include: trends in public health, socio-economic and environmental influences on health and health inequities, biomedical and anthropological models of health and illness, the role of culture in health and health behaviour and the political economy of health.

GHMD906 Quality Management for Health Services
Spring 6 cp
Develops knowledge and skills in the application of contemporary quality management theories and concepts. Examines the powerful forces driving change in the organisation and management of health care organisations and the implications for health care managers. Traditional approaches are contrasted with contemporary approaches using case studies. The subject is in three modules: agenda for change, managing people through change, and the tools of quality management.

GHMD907 Independent Study in Public Health
Spring/Autumn 6 cp
The candidate, in conjunction with a supervisor appointed by the Head of Department of Public Health and Nutrition, will present a research proposal which incorporates an assessment of current knowledge and practice, rationale, objectives, methods and criteria and methods for assessment. Students will normally intend to proceed to undertake research after completion of this subject. Students may enrol only if a supervisor is available. The time commitment involved in the independent study would be at least as great as that involved in a subject of equivalent credit points. Candidates will be expected to conduct independent library research as well as directed readings.
Introduces the fundamental aspects of toxicology, including toxic response mechanisms, models of cancer-dose response, threshold and tolerance, basic principles of pharmacokinetic models for humans, mechanism of disease induction, and the formulation of health risk assessment protocols for use in occupational settings and environmental health; monitoring methods and the use of monitored information to manage risks; legal aspects of health protection and safety. Technological ways to reduce hazards and risks will also be discussed. The subject aims to develop a sound appreciation of the principles of toxicology, carcinogenesis, and other fundamental aspects of the discipline, and to provide students with the means to interpret the data associated with those mechanisms and apply them to practical instances where humans are at risk.

**GHMD908 Health Services Planning and Evaluation**

**Spring**

6 cp

Practical and theoretical aspects of health service planning and evaluation covered. Topics include: planning, its scope and theory; planning approaches and methods; principles of evaluation.

**GHMD909 Comparative Health Systems: Policies and Politics**

**Autumn**

6 cp

Examines how ideologies and political processes influence health policy development and health service delivery. The impact of broad socio-economic forces on health status and health policy development are emphasised. Assists individuals in developing analytical and strategic skills.

**GHMD912 Health Promotion**

**Spring**

6 cp

This subject will develop an understanding of the concept of health promotion and discuss the principles of the Ottawa Charter. Students will critically review current theoretical approaches. A settings approach is followed, examining health promotion in the health care systems, schools, local government and the work place. A needs assessment on a particular health issue will be undertaken by each student.

**GHMD913 Drug Problems and Issues**

**Spring**

6 cp

This course will provide an understanding of the pharmacological, psychological, and sociological basis of drug dependence; methods of treatment and prevention of drug abuse; an analysis of government policies to combat drug related problems; the development and management of drug and alcohol services; contemporary issues and controversies.

**GHMD924 Health Information Systems**

**Autumn**

6 cp

Examines issues of managing information systems in health services. It is designed to provide health service managers with an understanding of the principles of data and data storage, classification and coding, data communication and networking, decision support and knowledge based systems. These principles will be applied to information systems in Hospitals, Nursing and Primary Health Care.

**GHMD925 Aboriginal Health Issues**

**Autumn**

6 cp

Examines the current health status of Aboriginal people from a social and historical perspective. Explores interaction between culture and health, the experience of ill-health, and the political and economic context of health. Focuses on access to and use of health services and problems of cross-cultural communication within the health sector.

**GHMD936 Public Health Nutrition**

**Autumn**

6 cp

This subject will introduce the student to the principles of community health and the history of public health nutrition in Australia. Key areas of public health nutrition discussed include food and nutrition surveillance, food policy, programme planning and health promotion. Selected public health nutrition programmes designed to reach different segments of the community will be examined.

**GHMD940 The Principles and Practices of Occupational Health**

**Autumn**

6 cp

Topics include history and development of occupational health, occupational health services and programs, health development in industry, management of occupational industry and disease, public and community health in the workplace, health promotion in the workplace, including stress management and the principles of a healthy lifestyle, ethics of occupational medicine practice, management of occupational health and safety programs.

**GHMD941 Occupational Hygiene and Industrial Toxicology**

**Spring**

6 cp

Introduces the fundamental aspects of toxicology, including toxic response mechanisms, models of cancer-dose response, threshold and tolerance, basic principles of pharmacokinetic models for...
sample means and the central limit theorem; inference - point estimation, confidence intervals, testing hypotheses; inference about single parameters; comparing means and proportions; analysis of variance (comparing several means); demography (mortality, fertility, standardised rates).

GHMD984 Health Research Methodology
Spring 6 cp
Pre-requisites: GHMD983 or equivalent.
Introduces students to health research methodology. Topics include formulating a research question, conducting a literature review and writing a research proposal. Students will acquire skills in interviewing, survey design and appropriate methods of qualitative and quantitative analysis. Addresses ethical issues such as informed consent and confidentiality.

GHMD985 Applied Epidemiology
Spring/Autumn 6 cp
Co-requisite: GHMD904.
The subject consists of a self directed computer based core studies to be conducted in teams of 2 students. The case study concerns an environmental contamination and the methods to investigate the situation and its health effects. The students are placed in the situation of a public health official with a limited financial budget and many options for research. Primary investigation, risk evaluation, potential study designs and actual study analysis will be covered. Presenting the results to a critical audience will be simulated in class presentations.

GHMD986 Environmental Health* Autumn 6 cp
The subject covers various case studies in environmental health such as air pollution, or waste problems and urbanisation. The lectures present the theories and internationally relevant cases. The students will present their own case studies in class.

GHMD987 Risk Assessment
Session: Please check with department. 6 cp
Pre-requisite: GHMD904.
This subject will address issues related to concepts of risk, risk modelling and setting guidelines for exposure and acceptable risks. The implications for management of risk, research and policy will be addressed. The emphasis will be on environmental issues related to risk to health.

GHMD988 Health Program Evaluation And Outcomes Research
Session: Please check with Department 6 cp
This subject will cover concepts, theories, methods and use of evaluation research. It will focus on developing program evaluation designs in health settings. Developments of Health Status, Functional status and well being measures will be covered. Current use of Quality of life and Health related Quality of Life measures will be analysed. Issues and current research in the assessment of Health Outcomes and its interpretation will be covered.

GHMD997 Major Project 24 cp
Pre-requisite: GHMD984 Health Research Methodology
The major project is an individual research endeavour under supervision. The candidate is encouraged to research a contemporary issue in their area of specialisation within the research areas of members of the department. It is expected that there be both a substantive theoretical and empirical content to the project.

GHMD998 Dr PH
Annual 48 cp
Guidelines for this subject have been developed and are available from the Co-ordinator. Research Seminars are held in both sessions to assess progress in the research component and to evaluate the proposal.

GHMD999 Major Thesis
Annual 48 cp
Guidelines for this subject have been developed and are available from the Co-ordinator. Research Seminars are held in both sessions to assess progress in the research component and to evaluate the proposal.

* Refer to Department.
MEMBERSHIP

School of Electrical, Computer and Telecommunications Engineering
School of Information Technology and Computer Science
School of Mathematics and Applied Statistics

RESEARCH COURSES AVAILABLE

The Faculty offers Honours Master of Science (Statistics), Honours Master of Science (Computer Science), Honours Master of Science (Mathematics), Honours Master of Information and Communication Technology, Honours Master of Engineering (Electrical and Computer Engineering; Telecommunications Engineering) and Doctor of Philosophy degrees by research.

POSTGRADUATE PROGRAMS

Major coursework programs are available in the Faculty in the following areas:

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<th>CONTENT</th>
<th>PAGE</th>
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<td>Applied Statistics</td>
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<td>Automation and Power Engineering</td>
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<td>Computer Security</td>
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<tr>
<td>Computer and Telecommunications Engineering</td>
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<td>Engineering and Industrial Mathematics</td>
<td>273</td>
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<td>Intelligent Systems</td>
<td>264</td>
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<tr>
<td>Pure Mathematics</td>
<td>274</td>
</tr>
<tr>
<td>Software Engineering</td>
<td>264</td>
</tr>
<tr>
<td>Telecommunications Engineering</td>
<td>257</td>
</tr>
</tbody>
</table>

The University attempts to ensure that information contained in this publication is up to date at the time of printing but sections may be amended without notice by the University in response to changing circumstances for any other reasons. Classes in any subject may be cancelled if enrolments do not reach the levels approved for the effective presentation of the topic area. Students should check with the University at the time of application/enrolment whether any later information is available in respect of any material contained in this Calendar.

The University reserves the right to change the content or the method of presentation of any unit of study, or to withdraw any unit or course of study which it offers, or impose limitations on enrolment in any unit or course as a result of resource limitations or for any other reason.
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Dr P Pentony, Assistant Statistician, Australian Bureau of Statistics
Mr A Whitworth, Systems Consultant, Keycorp Ltd
SCHOOL OF ELECTRICAL, COMPUTER AND TELECOMMUNICATIONS ENGINEERING

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Engineering by Research
3. Honours Master of Engineering in Telecommunications Engineering by Coursework/Research
4. Master of Engineering Studies
5. Master of Engineering Practice (Mechatronics)
6. Graduate Certificate in Engineering (Telecommunications)

POSTGRADUATE PROGRAMS

Automation and Power Engineering
Computer and Telecommunications Engineering
Telecommunications Engineering

CURRENT RESEARCH AREAS

There are two major research centres within the School. These are the Switched Networks Research Centre doing research in the area of Telecommunications and the Industrial Automation Research Centre. Under these two programs, the following areas of research are available to candidates undertaking the degrees of Honours Master of Engineering by research and the Doctor of Philosophy:

**Telecommunications: Switched Networks**
- Asynchronous transfer mode (ATM)
- Closed loop control in packet networks
- Network dimensioning
- Network management
- Network traffic modelling and control
- Wireless ATM

**Telecommunications: Network Services**
- Internet and WWW services
- Multimedia databases
- Network games
- Video on demand
- Virtual reality

**Telecommunications: Digital Signal Processing**
- Adaptive filtering
- Filter banks and wavelets
- Image and video compression
- Multirate signal processing
- Speech and image coding
- Speech recognition

**Industrial Automation**
- Advanced control systems
- Computer integrated manufacturing systems
- Electric motors
- Mechatronics
- Power electronics and applications (eg welding, servo-systems)
- Power quality
- Precision position and speed control
- Robotics and sensors
- Telerobotics
- Variable speed drives

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN AUTOMATION AND POWER ENGINEERING

leading to the Master of Engineering Studies.

This program also allows studies in Mechatronics.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC953</td>
<td>Report</td>
<td>12</td>
</tr>
<tr>
<td>ELEC955*</td>
<td>Advanced Laboratory</td>
<td>6</td>
</tr>
<tr>
<td>Electives** (a total of 30 credit points to be chosen from the following):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEC911</td>
<td>Choppers and inverters</td>
<td>6</td>
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<tr>
<td>ELEC912</td>
<td>AC Converters</td>
<td>6</td>
</tr>
<tr>
<td>ELEC924</td>
<td>Power Systems</td>
<td>6</td>
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</table>
### POSTGRADUATE PROGRAM IN COMPUTER AND TELECOMMUNICATIONS ENGINEERING

#### Core:

<table>
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<tbody>
<tr>
<td>ELEC932</td>
<td>Computer Hardware Architecture</td>
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<td>ELEC933</td>
<td>Real-time Computing</td>
<td>6</td>
</tr>
<tr>
<td>ELEC943</td>
<td>Computer Controlled Systems</td>
<td>6</td>
</tr>
<tr>
<td>ELEC960</td>
<td>Telecommunication Systems</td>
<td>6</td>
</tr>
<tr>
<td>ELEC961</td>
<td>Digital Signal Processing</td>
<td>6</td>
</tr>
<tr>
<td>ELEC962</td>
<td>Analysis and Transmission of Signals</td>
<td>6</td>
</tr>
<tr>
<td>ELEC963</td>
<td>Advanced Digital Signal Processing</td>
<td>6</td>
</tr>
<tr>
<td>ELEC965</td>
<td>Telecommunications Network Management</td>
<td>6</td>
</tr>
<tr>
<td>ELEC969</td>
<td>Computer Communications</td>
<td>6</td>
</tr>
</tbody>
</table>

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

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

*** Graduates with an interest in Mechatronics follow the program given above, with this elective if desired.

For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN TELECOMMUNICATIONS ENGINEERING

#### Core:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>ELEC952</td>
<td>Thesis</td>
<td>36</td>
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</table>

**Electives** (choice of not less than 12 credit points from the following):

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>ELEC964</td>
<td>Integrated Service Networks</td>
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</tr>
<tr>
<td>ELEC966</td>
<td>Telecommunications Signal Processing</td>
<td>4</td>
</tr>
<tr>
<td>ELEC967</td>
<td>Teletraffic Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ELEC968</td>
<td>Transmission Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

*Note: Only three elective subjects will be offered in any one year. With the approval of the Head of School, one elective may be replaced by a suitable equivalent subject offered by another department or school.

For further details, see Course Requirements below.

### SCHEDULE OF POSTGRADUATE SUBJECTS

#### Graduate Certificate in Engineering (Telecommunications)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>ELEC861</td>
<td>Telecommunications Systems</td>
<td>6</td>
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<tr>
<td>ELEC862</td>
<td>Transmission Systems</td>
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<tr>
<td>ELEC863</td>
<td>Telecommunication Signal Processing</td>
<td>6</td>
</tr>
<tr>
<td>ELEC864</td>
<td>Telecommunication System Management</td>
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</tbody>
</table>

#### Graduate Certificate in Information and Communication Technology - Telecommunications Specialisation

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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</thead>
<tbody>
<tr>
<td>ELEC865</td>
<td>Integrated Service Networks</td>
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<td>ELEC867</td>
<td>Teletraffic Engineering</td>
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<tr>
<td>Number</td>
<td>Subject</td>
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</tr>
<tr>
<td>ELEC868</td>
<td>Digital Transmission Systems</td>
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</table>

**Master of Engineering Studies**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>ELEC911</td>
<td>Choppers and Inverters</td>
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<tr>
<td>ELEC912</td>
<td>AC Converters</td>
<td>6</td>
</tr>
<tr>
<td>ELEC915</td>
<td>Advanced Logic Design</td>
<td>6</td>
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<td>ELEC922</td>
<td>Industrial Design</td>
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<tr>
<td>ELEC924</td>
<td>Power Systems</td>
<td>6</td>
</tr>
<tr>
<td>ELEC925</td>
<td>Computer Applications in Power Systems</td>
<td>6</td>
</tr>
<tr>
<td>ELEC926</td>
<td>Machine Transients</td>
<td>6</td>
</tr>
<tr>
<td>ELEC928</td>
<td>Variable Speed Drives</td>
<td>6</td>
</tr>
<tr>
<td>ELEC932</td>
<td>Computer Hardware Architecture</td>
<td>6</td>
</tr>
<tr>
<td>ELEC933</td>
<td>Real-time Computing</td>
<td>6</td>
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<td>ELEC943</td>
<td>Computer Controlled Systems</td>
<td>6</td>
</tr>
<tr>
<td>ELEC944</td>
<td>Identification and Optimal Control</td>
<td>6</td>
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<tr>
<td>ELEC953</td>
<td>Report</td>
<td>12</td>
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<tr>
<td>ELEC955</td>
<td>Advanced Laboratory</td>
<td>6</td>
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<td>ELEC960*</td>
<td>Telecommunication Systems</td>
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<td>Digital Signal Processing</td>
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<td>Telecommunications Network Management</td>
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<tr>
<td>ELEC969*</td>
<td>Computer Communications</td>
<td>6</td>
</tr>
<tr>
<td>ELEC970</td>
<td>Special Topics in Engineering</td>
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<tr>
<td>ELEC973</td>
<td>Advanced Robotics and Sensory Systems</td>
<td>6</td>
</tr>
</tbody>
</table>

* These subjects are also available in the Graduate Certificate in Information and Communication Technology - Telecommunications Specialisation.

For the Master of Engineering Studies, unless demand warrants, only seven (7) subjects will be available in any one year.

**Master of Engineering in Telecommunications Engineering (Honours)**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ELEC952</td>
<td>Thesis</td>
<td>36</td>
</tr>
<tr>
<td>ELEC964</td>
<td>Integrated Service Networks</td>
<td>4</td>
</tr>
<tr>
<td>ELEC966</td>
<td>Telecommunications Signal Processing</td>
<td>4</td>
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<td>ELEC967</td>
<td>Teletraffic Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ELEC968</td>
<td>Transmission Systems</td>
<td>4</td>
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</table>

**Master of Engineering (Honours) and Doctor of Philosophy**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>ELEC951</td>
<td>Thesis</td>
<td>48 per year</td>
</tr>
</tbody>
</table>

**COURSE REQUIREMENTS**

1. **DOCTOR OF PHILOSOPHY**

Candidates for this degree enrol in ELEC951 Thesis.

2. **HONOURS MASTER OF ENGINEERING**

Under the Rules for the degree of Honours Master of Engineering, candidates may meet the major requirements by satisfactorily completing a thesis embodying the results of an investigation.

**Entry for graduates with an Honours Degree at a standard of Class II, Division 2 or higher or approved equivalent qualification.**

Under the Honours Masters Rules, candidates must accumulate a total of not less than 48 credit points by the successful completion of subjects from the Schedule of Graduate Subjects, which are described below.

**Entry for graduates with a Degree below a standard of Class II, Division 2**

Under the Honours Masters Rules, candidates are required to accumulate 96 credit points of which at least 48 points shall be from subjects included in the Schedule of Graduate Subjects; the remaining 48 credit points however, need not be for subjects at the Postgraduate level.

The School, however, requires that candidates who qualify for entry under these provisions enrol in the Master of Engineering Studies and gain a weighted average mark of 67.5% or higher to be admitted to the Honours Master of Engineering program.

3. **HONOURS MASTER OF ENGINEERING IN TELECOMMUNICATIONS ENGINEERING**

**Introduction**

This course has been designed to provide students with a thorough and working knowledge of the key telecommunications disciplines and systems of the future. It will provide sufficient coursework to enable students to be able to design networks, transmission and digital signal processing systems. Students will be able to apply and develop the knowledge acquired in these courses to important research problems in advanced telecommunications. The course is aimed at recent graduates in Computer, Electrical or Electronic Engineering who wish to pursue a career in telecommunications, and practising engineers seeking to update their knowledge in this rapidly advancing field.

**Entrance Requirements**

The entrance requirements for this course are the same as that for the Honours Master of Engineering Degree.
Entry for graduates with an Honours Degree at a Standard of Class II, Division 2 or higher or approved equivalent qualification.

Under the Honours Masters Rules, candidates must accumulate a total of not less than 48 credit points by the satisfactory completion of subjects as indicated below:

(a) ELEC952 Thesis;
(b) three elective subjects, worth not less than 12 credit points chosen from those listed below and for which details appear under Subject Descriptions in the following pages:

ELEC964 Integrated Service Networks
ELEC966 Telecommunications Signal Processing
ELEC967 Teletraffic Engineering and Transmission Systems.

(Note: Only three elective subjects will be offered in any one year. With the approval of the Head of School, one elective may be replaced by a suitable equivalent subject offered by another school).

Entry for graduates with a degree below a standard of Class II, Division 2.

The School requires that candidates who qualify for entry under these provisions enrol in the Master of Engineering Studies and gain a weighted average mark of 67.5% or higher to be admitted to the Honours Master of Engineering in Telecommunications Engineering program. Having satisfied these requirements, the program of study is as set out above.

4. MASTER OF ENGINEERING STUDIES

The Rules governing the Master of Engineering Studies are detailed in the section called General Information within this Calendar.

Under the Masters Rules, candidates must accumulate a total of not less than 48 credit points by the satisfactory completion of subjects, approved by the Head of School, as indicated below.

A. Automation and Power Engineering Program

This program includes mechatronics studies. Students interested in mechatronics would complete a project in the mechatronics field in ELEC953 and Mechatronics laboratory work in ELEC955.

(a) Five subjects, worth six credit points each, from the List of Postgraduate Subjects, listed below and for which details appear under Subject Descriptions in the following pages.

ELEC911 Choppers and Inverters
ELEC912 AC Converters
ELEC924 Power Systems
ELEC928 Variable Speed Drives
ELEC933 Real-time Computing
ELEC943 Computer Controlled Systems
ELEC951 Digital Signal Processing
ELEC973 Advanced Robotics and Sensor Systems; and

(b) ELEC953 Report
ELEC955* Advanced Laboratory

* With the approval of the Head of School, this subject may be replaced by one of the subjects listed in Part (a). Only a limited number of subjects will be available in any one year in Part (a). The Head of School may approve relevant subjects from other programs. Under normal circumstances, this approval would not exceed subjects to a total value of 12 credit points.

B. Computer and Telecommunications Engineering Program

(a) Five subjects, worth six credit points each, from the List of Postgraduate Subjects, listed below and for which details appear under Subject Descriptions in the following pages.

ELEC932 Computer Hardware Architecture
ELEC933 Real-time Computing
ELEC943 Computer Controlled Systems
ELEC960 Telecommunication Systems
ELEC961 Digital Signal Processing
ELEC962 Analysis and Transmission of Signals
ELEC963 Advanced Digital Signal Processing
ELEC965 Telecommunications Network Management
ELEC969 Computer Communications

(b) ELEC953 Report
ELEC955* Advanced Laboratory

* With the approval of the Head of School, this subject may be replaced by one of the subjects listed in Part (a). Only a limited number of subjects will be available in any one year in Part (a). The Head of School may approve relevant subjects from other programs. Under normal circumstances, this approval would not exceed subjects to a total value of 12 credit points.

5. MASTER OF ENGINEERING PRACTICE (MECHATRONICS)

Introduction

This course is offered jointly by the Department of Mechanical Engineering and the School of Electrical, Computer and Telecommunications Engineering, and is available to graduates with four year bachelor of engineering degrees, or the equivalent, in any engineering discipline, including Civil, Mining, Mechanical, Production, Industrial, Materials, etc. Graduates interested in mechatronics who have an Electrical, Computer, Electronic or
related engineering undergraduate degree, are also able to consider the Automation and Power Engineering Program, including the specialist mechatronics subjects, within the Master of Engineering Studies (see details above).

**Content and Duration**
This course can be completed in one year of full-time study (48 credit points), and is 75% coursework (36 credit points), and 25% project and report (12 credit points).

**Entry Requirements**
A four year engineering bachelor degree.

**Purpose of the Course**
The objective of this course is to provide graduates with an ability to understand and design mechatronics systems.

**Program of Study**
Details of the program of study for the Master of Engineering Practice (Mechatronics) are contained in the Faculty of Engineering entry. Candidates with Electrical, Electronic, Computer or similar engineering background can also study mechatronics subjects via the Master of Engineering Studies by enrolling in ELEC953 Report in a mechatronics field and ELEC955 Advanced Laboratory undertaking special mechatronics projects. Five other subjects would then be selected from the Automation and Power Engineering Program and mechatronics subject offerings from the Department of Mechanical Engineering.

6. **GRADUATE CERTIFICATE IN ENGINEERING (TELECOMMUNICATIONS)**

The Rules governing the Graduate Certificate in Engineering are detailed in the section called General Information within this Calendar.

For the Graduate Certificate in Engineering (Telecommunications), candidates enrol in the following subjects:

- **ELEC861 Telecommunications Systems**
- **ELEC862 Transmission Systems**
- **ELEC863 Telecommunication Signal Processing**
- **ELEC864 Telecommunication System Management**

Details of these subjects are presented in the Subject Descriptions below. It should be noted that these subjects are to be delivered by mixedmode techniques, including television broadcasts as the Graduate Certificate in Engineering (Telecommunications) is offered as a distance learning course.

**SUBJECT DESCRIPTIONS**

**Assessment**
All subjects offered by the School of Electrical, Computer and Telecommunications Engineering are normally assessed by means of a final examination. In addition, set project work, library assignments, seminar presentations, laboratory reports and tutorial problems undertaken by the student throughout the session may also be taken into account.

Lecturers in the individual subjects will provide details at the beginning of each session. As a general rule, the assessment for a subject is such that not less than 80% of the assessable material is identifiably the student's own work.

**ELEC861 Telecommunications Systems**

*Autumn/Spring* 6 cp  
Contact hrs: Mixed mode delivery, including television broadcasts.  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: introduction to communications systems; analogue and digital transmission systems; ISDN; cellular mobile radios; satellite communications; time and frequency domain analysis of linear systems and deterministic signals (Fourier Transform); convolution and correlation; continuous and discrete time linear systems; and analogue modulation systems and spectra (amplitude, frequency and phase modulation).

**ELEC862 Transmission Systems**

*Autumn/Spring* 6 cp  
Contact hrs: Mixed mode delivery, including television broadcasts.  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: wave propagation in cables, waveguides and the atmosphere, radiation and antennas.

**ELEC863 Telecommunication Signal Processing**

*Autumn/Spring* 6 cp  
Contact hrs: Mixed mode delivery, including television broadcasts.  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: band-limited signals; sampling theorem; aliasing; finite and infinite impulse response digital filter structures; frequency response; design methods for digital filters; the discrete Fourier Transform; Fast Fourier Transform algorithms; and linear prediction and its application to reduced bandwidth transmission of signals.

**ELEC864 Telecommunication System Management**

*Autumn/Spring* 6 cp  
Contact hrs: Mixed mode delivery, including television broadcasts.  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: aims of private and public communications systems; Local Area Networks (LANs) and Simple Network Management Protocol (SNMP); Narrowband versus broadband communications; integration of voice, data and video in national and global networks; general management issues, such as cost control and business development in telecommunications systems, both public and private; international standards; dimensioning telecommunications systems; regulatory structure; and international networking.

**ELEC865 Integrated Service Networks**

*Autumn/Spring/Summer* 6 cp  
Contact hrs: 4 hrs lectures/tutorials per week.  
Assessment: See statement at beginning of Subject Descriptions.  
ELEC865 is an elective subject within the Graduate Certificate in Information and Communication Technology - Telecommunications Specialisation. The aim of ELEC865 is to provide students with an opportunity to study telecommunications networks which are capable of supporting integrated services involving voice and data. It will focus on voice, data and video traffic; packet and circuit switching; narrowband ISDN; broadband ISDN; LAN and MAN networks.

**ELEC867 Teletraffic Engineering**

*Autumn/Spring/Summer* 6 cp  
Contact hrs: 4 hrs lectures/tutorials per week.  
Assessment: See statement at beginning of Subject Descriptions.  
ELEC867 is an elective subject within the Graduate Certificate in Information and Communication Technology - Telecommunications Specialisation. The aim of ELEC867 is to provide students with the fundamental and advanced knowledge of teletraffic analysis, monitoring and measurements in voice systems, data systems and networks.
ELEC868 Digital Transmission Systems
Autumn/Spring/Summer 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
ELEC868 is an elective subject within the Graduate Certificate in Information and Communication Technology - Telecommunications Specialisation. The aims of ELEC868 are to provide students with the necessary theoretical skills and international standardisation specifications such that they understand the underlying principles and operation of advanced digital transmission systems within modern telecommunications industries.

ELEC911 Choppers and Inverters
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include: power transistors, MOSFETs and diodes; commutation; snubbing; drive and protection; waveform control and filtering; choppers; inverters; switched mode power supplies; and current research developments.

ELEC912 AC Converters
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include: the characteristics and protection of diodes, SCR, and triacs; ac to dc conversion; single-phase and three-phase, single-quadrant, two-quadrant and four-quadrant phase-controlled converters; applications; ac to ac conversion; ac voltage controllers; single-phase and three-phase cycloconverters; applications; harmonics in phase controlled systems; and current research developments.

ELEC915 Advanced Logic Design
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include: MOS transistor behaviour; inverter circuits; CMOS inverter analysis; the CMOS process and design rules; pass transistors and transmission gates; combinatorial logic in CMOS; flip-flop; sequential logic; standard cells; gate arrays; programmable logic devices; design tools; silicon compilation; application to telecommunications systems; and current research developments.

ELEC922 Industrial Design
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
ELEC922 will cover selected topics from design techniques for electrical equipment, such as: electric motors, transformers, reactors; contactors, insulators; and busbars, etc. Topics to be covered will include: magnetic and electric circuits; electric fields in insulators; thermal systems; mechanical constraints; audible noise; skin effect; and current research developments.

ELEC924 Power Systems
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include: power system components; layout; frequency control; voltage control; fault analysis; stability; protection; and current research developments.

ELEC925 Computer Applications in Power Systems
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include on-line and off-line applications of computers to the following areas: power system analysis; digital protection; centralised and distributed control of active and reactive power; and current research developments.

ELEC926 Machine Transients
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.

Topics covered will include: generalised machine theory; space phasors; transient performance; control of machines; and current research developments.

ELEC928 Variable Speed Drives
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include: characteristics of ac and dc machines and converters; principles of speed control; control algorithms, and current research developments.

ELEC932 Computer Hardware Architecture
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
ELEC932 involves the use of computers to the following areas: power system analysis; digital techniques; and current research developments.

ELEC933 Real-time Computing
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include: real-time issues, including time handling, objects and adding time to objects; real-time system life cycle; structured design approach; Petri-net models; verification and validation of real-time software; real-time operating systems; operating system implementation; and current research developments.

ELEC943 Computer Controlled Systems
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include: discrete-time observations, control and feedback; digital regulator design; digital tracking system design; digital control of continuous-time systems; step varying systems; and current research developments.

ELEC944 Identification and Optimal Control
Autumn/Spring 6 cp
Contact hrs: 4 hrs lectures/tutorial/seminars per week.
Assessment: See statement at beginning of Subject Descriptions.
Topics covered will include: fundamentals of system identification; parameter estimation algorithms, including least squares and stochastic least squares, maximum likelihood; recursive least squares algorithm; introduction to optimal control; linear quadratic optimal control; linear quadratic Gaussian control; Kalman filtering and current research developments.

ELEC951 Thesis
Autumn/Spring/Double (A, C) 48 cp
Contact hrs: 2 hrs tutorial/meeting per week.
Assessment: See statement at beginning of Subject Descriptions.
Projects may involve a hardware project, a software project, or an extensive literature survey; or a combination of any of these. Where possible the projects are related to the research programs of the School and are chosen to develop the student's initiative. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

ELEC955 Advanced Laboratory
Autumn/Spring 6 cp
Contact hrs: 3 hrs of practicals per week.
Assessment: See statement at beginning of Subject Descriptions.
The aim of ELEC955 is to provide students with an opportunity to apply and verify theory in areas associated with the postgraduate
programs through laboratory experiments and computer studies. Students will be expected to design, perform, analyse and write reports on projects selected to illustrate practical issues selected from the two postgraduate programs.

ELEC960 Telecommunication Systems  
Autumn/Spring 6 cp  
Contact hrs: 4 hrs lectures/tutorials/seminars per week  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: teletraffic engineering; queueing theory; delay and loss systems; elementary and intermediate queues; Little's theorem; throughput and congestion; Erlang distribution and blocking probability; Markov chain analysis; mixed voice and data queuing systems; network engineering; optimal capacity allocation; direct and alternate routing; overflow traffic; telephone networks and switching systems; time and space switching; blocking probability and availability; and current research developments.

ELEC961 Digital Signal Processing  
Autumn/Spring 6 cp  
Contact hrs: 4 hrs lectures/tutorials/seminars per week  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: band-limited signals; sampling theorem; aliasing; finite- and infinite- impulse response digital filter structures; frequency response; design methods for digital filters; the discrete Fourier transform; Fast Fourier Transform algorithms; and current research developments.

ELEC962 Analysis and Transmission of Signals  
Autumn/Spring 6 cp  
Contact hrs: 4 hrs lectures/tutorials/seminars per week  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: high frequency signal propagation in transmission lines, waveguides and the atmosphere; radiation and antennas; fibre optics; filters; and current research developments.

ELEC963 Advanced Digital Signal Processing  
Spring 6 cp  
Contact hrs: 4 hrs lectures/tutorials/practicals per week  
Assessment: See statement at beginning of Subject Descriptions.  
The aim of ELEC963 is to provide a thorough understanding of the theory and application of advanced digital signal processing techniques. Theoretical topics covered will include: multirate processing; spectral estimation; and least squares methods. Applications will include: adaptive signal processing; speech processing; and image processing.

ELEC964 Integrated Service Networks  
Autumn/Spring 4 cp  
Contact hrs: 3 hrs lectures/tutorials per week  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: characteristics of telecommunication traffic (voice, data and video); packet and circuit switching; narrowband ISDN networks; broadband ISDN networks; and LAN and MAN networks.

ELEC965 Telecommunications Network Management  
Autumn/Spring 6 cp  
Contact hrs: 4 hrs lectures/tutorials/practicals per week  
Assessment: See statement at beginning of Subject Descriptions.  
ELEC965 aims to provide students with an understanding of: the technical issues of telecommunications management; current management systems and their future evolution. It also will provide practical hands-on experience of network configuration and management systems for a selection of voice and data networks and to make students aware of economic, management and political issues in telecommunications management.

ELEC966 Telecommunications Signal Processing  
Autumn/Spring 4 cp  
Contact hrs: 3 hrs lectures/tutorials per week  
Assessment: See statement at beginning of Subject Descriptions.  
ELEC966 covers the hardware, software and the algorithms needed for DSP implementation of communications systems building blocks. Particular emphasis is placed on coding algorithms for voice and images and on adaptive filtering techniques as applied to equalisation and echo cancellation.

ELEC967 Teletraffic Engineering  
Autumn/Spring 4 cp  
Contact hrs: 3 hrs lectures/tutorials per week  
Assessment: See statement at beginning of Subject Descriptions.  
ELEC967 is designed to give students the fundamental and advanced knowledge of teletraffic analysis, monitoring and measurements in voice and data systems and networks. It provides clear insight into the analytical and practical aspects of traffic behaviour of links and switches. The case examples allow students to practice analysis of systems' performance and to compare the results with those obtained from theoretical models.

ELEC968 Transmission Systems  
Autumn/Spring 4 cp  
Contact hrs: 3 hrs lectures/tutorials per week  
Assessment: See statement at beginning of Subject Descriptions.  
ELEC968 covers all aspects of digital transmission systems at an advanced level including: modulation; coding; synchronization; multiple access; case studies of optical and satellite links demonstrating how the effects of performance degradations are incorporated into the link budget; analog transmission; baseband digital transmission; digital carrier modulation; synchronization; introduction to channel coding; link budgets; optical link case study; satellite link case study; spread spectrum; and multiple access.

ELEC969 Computer Communications  
Autumn/Spring 6 cp  
Contact hrs: 4 hrs lectures/tutorials/seminars per week  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: coding, error detection and correction, serial communications, packet switching, protocols, modern, and computer networks; and current research developments.

ELEC970 Advanced Topics in Engineering  
Autumn/Spring 6 cp  
Contact hrs: 4 hrs lectures/tutorials/seminars per week  
Assessment: See statement at beginning of Subject Descriptions.  
The aim of ELEC970 is to enable students to further their knowledge and abilities in topics selected from the advanced technical subject areas in the relevant postgraduate program areas. Topics will be selected from the fields of computer and telecommunications engineering or automation and power engineering and will include current research developments.

ELEC973 Advanced Robotics and Sensory Systems  
Autumn/Spring 6 cp  
Contact hrs: 4 hrs lectures/tutorials/seminars per week  
Assessment: See statement at beginning of Subject Descriptions.  
Topics covered will include: a survey of industrial robot types; strengths and weaknesses of actual robots; the robot as a component of automation; automation and labour relations; vision, tactile and other sensors; design criteria for robots; the kinematics and dynamics of manipulator arms; and current research developments.
SCHOOL OF INFORMATION TECHNOLOGY AND COMPUTER SCIENCE

The School of Information Technology and Computer Science offers postgraduate qualifications in Computer Science and Information and Communication Technology. Descriptions of the Computer Science qualifications and subjects offered by the School are below. Descriptions of the Information and Communication Technology qualifications and subjects offered by the School immediately follow the Computer Science entries.

COMPUTER SCIENCE

COURSES OFFERED

The following postgraduate courses are available:

1. Graduate Diploma in Science (in Computing)
2. Master of Computer Science
3. Honours Master of Science by Research or Coursework
4. Doctor of Philosophy

POSTGRADUATE PROGRAMS

Computer Security
Software Engineering
Intelligent Systems

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Science degree by research and the Doctor of Philosophy degree:

Computer Security
Communication security
Cryptographic primitive design
Access control
Security protocols
Authentication
Network security
Data and system integrity
Distributed systems security

Software Engineering
Graphical user interfaces
Object-oriented programming
Database management systems
Computer-aided learning
Science of computer programming

Intelligent Systems
Artificial intelligence
Expert systems
Robotics
Neural networks

Algorithms
Combinatorial designs
Hadamard matrices and Bent functions
Error correction codes

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN COMPUTER SECURITY

leading to the Honours Master of Science

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tr>
<td>CSCI943</td>
<td>Advanced Topics in Computer Science C</td>
<td>6</td>
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<tr>
<td>CSCI965</td>
<td>Design and Analysis of Algorithms</td>
<td>6</td>
</tr>
<tr>
<td>CSCI966</td>
<td>Information Theory and Coding</td>
<td>6</td>
</tr>
<tr>
<td>CSCI967</td>
<td>Complexity Theory</td>
<td>6</td>
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<tr>
<td>CSCI971</td>
<td>Computer Security</td>
<td>6</td>
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plus subjects from the other Programs.

For further details, see Course Requirements below.
POSTGRADUATE PROGRAM IN SOFTWARE ENGINEERING

leading to the Honours Master of Science.

<table>
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<th>Number</th>
<th>Subject</th>
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<tr>
<td>CSC1941</td>
<td>Advanced Topics in Computer Science A</td>
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<tr>
<td>CSC1945</td>
<td>Parallel Architectures and Algorithms</td>
<td>6</td>
</tr>
<tr>
<td>CSC1955</td>
<td>Computer Networks</td>
<td>6</td>
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<td>CSC1957</td>
<td>Advanced Topics in Database Management</td>
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</tr>
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<td>CSC1963</td>
<td>Advanced Computer Graphics</td>
<td>6</td>
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<td>CSC1973</td>
<td>Computer Assisted Learning</td>
<td>6</td>
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<tr>
<td>CSC1974</td>
<td>Systems Analysis</td>
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</table>

plus subjects from the other Programs.

For further details, see Course Requirements below.

POSTGRADUATE PROGRAM IN INTELLIGENT SYSTEMS

leading to the Honours Master of Science.

<table>
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<tr>
<td>CSC1942</td>
<td>Advanced Topics in Computer Science B</td>
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<tr>
<td>CSC1944</td>
<td>Robot Perception and Planning</td>
<td>6</td>
</tr>
<tr>
<td>CSC1954</td>
<td>Artificial Intelligence Programming</td>
<td>6</td>
</tr>
<tr>
<td>CSC1956</td>
<td>Robot Modelling</td>
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</tr>
<tr>
<td>CSC1962</td>
<td>Logic Programming</td>
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<tr>
<td>CSC1964</td>
<td>Neural Computing</td>
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</table>

plus subjects from the other Programs.

For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

<table>
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<th>Subject</th>
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<td>CSC1981</td>
<td>Preliminary Topics in Computer Science B</td>
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<td>CSC1982</td>
<td>Preliminary Topics in Computer Science C</td>
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<td>CSC1983</td>
<td>Preliminary Topics in Computer Science D</td>
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<td>CSC1991</td>
<td>Project</td>
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<td>CSC1992</td>
<td>Minor Thesis</td>
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<tr>
<td>CSC1993</td>
<td>Thesis</td>
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COURSE REQUIREMENTS

1. GRADUATE DIPLOMA IN SCIENCE (IN COMPUTING)

This course is intended for graduates in disciplines with no Computer Science background. The course consists of a fixed program of first and second year undergraduate subjects from the School of Information Technology and Computer Science, and can only be taken part-time, because of the prerequisite relationships between the subjects.

Prospective candidates who have already satisfactorily completed more than one of the prescribed subjects, or equivalent, will not be permitted to register for this course. Such applicants should register for the Bachelor of Computer Science or the Master of Computer Science. However, substitution of one of these subjects by another subject offered by the School of Information Technology and Computer Science may be permitted, with the approval of the Head of School.

The Graduate Diploma in Science (in Computing) shall be subject to the University Rules for the award of Graduate Diplomas together with the following conditions:

(1) The Graduate Diploma in Science (in Computing) is a coherent program of study with the value of at least 48 credit points which requires the satisfactory completion of each of the subjects:

CSCI100  Computing Studies;
CSCI111  Computer Science 1A;
CSCI121  Computer Science 1B;
CSCI131  Introduction to Computer Systems;
CSCI202  Computer Science IIA;
CSCI203  Computer Science IIB;
CSCI212  Operating Systems; and
CSCI235  Databases.

with the exception that an alternative Computer Science subject from the General Schedule may replace one of the above with the approval of the Head of Department.

(2) A candidate who accumulates failures in subjects to the value of 18 or more credit points shall be required to show cause why enrolment should be allowed to continue.
2. MASTER OF COMPUTER SCIENCE

The Master of Computer Science is designed to provide advanced studies in Computer Science at a professional level to graduates of this or another university who have some background in Computer Science.

The Master of Computer Science shall be subject to the University Course Rules for the award of the degree of Master, together with the following conditions:

1. A candidate shall undertake a course of graduate studies and research, normally chosen from the graduate subjects offered by the School of Information Technology and Computer Science.

2. Entry to the Master of Computer Science will normally be from a pass degree with an appropriate sequence in Computer Science, or, subject to the approval of Council on the recommendation of the Head of School, from a degree or diploma containing substantial study in an appropriate discipline. The expected level of Computer Science background will be equivalent to at least CSCI203 Computer Science IIB.

3. The Master of Computer Science will normally occupy two sessions of full-time study or four sessions of part-time study, and requires satisfactory completion of 900 level subjects to the value of at least 48 credit points, including the subject CSCI991 (12 credit points) and other 900 level subjects to the value of at least 36 credit points approved by the Head of School. In exceptional circumstances, and subject to approval of the Head of the School, subjects with the value of at most 12 credit points, other than CSCI991, may be replaced by 900 level subjects with value of at least 12 credit points offered by Departments other than the School of Information Technology and Computer Science.

4. 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.

5. Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Information Technology and Computer Science.

3. HONOURS MASTER OF SCIENCE

The degree of Honours Master of Science shall be subject to the University Course Rules for the award of the degree of Honours Master, together with the following conditions.

1. A candidate shall undertake research, or a course of graduate studies and research, normally chosen from the graduate subjects offered by the School of Information Technology and Computer Science.

2. Entry to the Honours Master of Science will normally be from an Honours bachelor degree in Computer Science at a standard of Class II, Division 2 or higher. Entry may also be approved for candidates with the qualification of Master of Computer Science on the recommendation of the Head of the School of Information Technology and Computer Science.

3. The Honours Master of Science will normally occupy two sessions of full-time study or four sessions of part-time study, and requires satisfactory completion of 900 level subjects to the value of at least 48 credit points, including either:
   (a) the subject CSCI993 (48 credit points), or
   (b) the subject CSCI992 (24 credit points) and other 900 level subjects (except subjects from the CSCI980 suite of subjects) to the value of at least 24 credit points approved by the Head of School. In exceptional circumstances, and subject to approval of the Head of School, subjects with the value of at most 6 credit points may be replaced by 900 level subjects with value of at least 6 credit points offered by Departments other than the School of Information Technology and Computer Science.

4. 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.

5. Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Information Technology and Computer Science.

6. Before the award of Honours Master of Science is conferred on a candidate who holds a testamur of the University of Wollongong for the degree of Master of Computer Science, the candidate shall surrender the testamur and the corresponding rights to the degree of Master of Computer Science.

4. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in CSCI993.

SUBJECT DESCRIPTIONS

Where textbooks and/or co-ordinators are not specified, Lecturers in the individual subjects will provide details at the beginning of each session.

Assessment

Where not otherwise specifically stated, assessment will be by a combination of assignments, seminar presentations, and final examination. Precise details will be announced in the first lecture for each subject.

CSCI941 Advanced Topics in Computer Science A 6 cp
Autumn/Spring (2 hrs contact per week).
Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.

CSCI942 Advanced Topics in Computer Science B 6 cp
Autumn/Spring (2 hrs contact per week).
Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.
CSCI943 Advanced Topics in Computer Science C
Autumn/Spring 6 cp
(2 hrs contact per week)
Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.

CSCI944 Perception and Planning
Autumn/Spring 6 cp
(2 hrs contact per week)
This subject explores ways in which a robot can combine data from variety of sensors to create or update a model of its environment, and then use this model to infer the consequences of proposed actions. The subject will cover the use of internal sensors, such as those measuring robot joint angles and torques, and external sensors including those for touch, vision, and range finding.

CSCI945 Parallel Architectures and Algorithms
Autumn/Spring 6 cp
(2 hrs contact per week)
This subject presents different approaches to the construction of parallel algorithms and computer architectures. Both theoretical and practical aspects are covered, emphasis is placed on identifying the suitability of the approaches for specific applications.

CSCI954 Artificial Intelligence
Autumn/Spring 6 cp
(2 hrs contact per week)
This subject covers the design and implementation of a range of knowledge representation and reasoning techniques such as rule-based, frame-based and hybrid systems; uncertainty reasoning and fuzzy logic; case based reasoning, and related models. These provide a solid grounding in the theory and implementation of advanced expert systems.

CSCI955 Computer Networks
Autumn/Spring 6 cp
(2hrs contact per week + 1 hour seminar)

CSCI956 Robot Modelling
Autumn/Spring 6 cp
(2hrs contact per week)

CSCI957 Advanced Topics in Database Management
Autumn/Spring 6 cp
(2hrs contact per week + 1 hour seminar)
This subject covers topics from modern database management systems: object-oriented databases and transaction management in database systems. The topics include the details such as design and implementation of object-oriented database systems, hybrid transaction management, optimistic transaction management, nested transactions, management of long transactions, and management of transaction in distributed workgroup systems.

CSCI962 Logic programming
Autumn/Spring 6 cp
(2hrs contact per week)
This subject covers theoretical and practical aspects of the logic programming paradigm. Topics covered include: propositional calculus; predicate calculus; model-theoretic semantics; resolution; logic programming and Prolog (theory, applications, extensions, integration with other programming paradigms, and implementation).

CSCI963 Advanced Computer Graphics
Autumn/Spring 6 cp
(2hrs contact per week)
In this subject students will learn how to use graphics techniques such as ray tracing and radiosity to produce highly realistic images with features such as shadows, reflection, refraction, texture, penumbras and motion blur. The rendering algorithms and their underlying mathematics are covered with a practical component being the implementation of a ray tracer. Applications including scientific visualisation are also covered.

CSCI964 Neural Computing
Autumn/Spring 6 cp
(2hrs contact per week)
This subject provides students with an understanding of the theory and practical application of neural networks. Topics include: biological neural models; origins of neural computing, perception, multilayer feedforward networks; supervised training; Boltzmann machines; Hopfield networks, learning ability, generalisation, noise- and fault-tolerance; hardware realisation; comparison of neural networks with symbolic artificial intelligence, applications.

CSCI965 Design & Analysis of Algorithms
Autumn/Spring 6 cp
(2hrs contact per week)
The objective of this subject is to develop the knowledge, skills and techniques for designing and analysing computer algorithms. Topics to be studied include: review of standard algorithm designs including divide and conquer, the greedy method, etc; complexity analysis and comparison of algorithms; applications including the FFT, polynomials, matrix operations, computational geometry, number theoretical algorithms.

CSCI966 Information Theory and Coding
Autumn/Spring 6 cp
(2hrs contact per week)
This subject introduces students to the problem of data corruption due to noise in transmission or storage. Basic concepts of information theory such as entropy and mutual information, are studied and used to define and calculate capacity of a channel (communication or storage). This is followed by a study of various kinds of error detecting/correcting codes which provide the required protection against noise and allow efficient coding/decoding.

CSCI967 Complexity Theory
Autumn/Spring 6 cp
(2hrs contact per week)
The subject introduces basic concepts of complexity theory. Topics include Turing machines, the classes P, NP, NPI and NP-complete, Cook's theorem and its implications, solvable and unsolvable problems.

CSCI971 Advanced Computer Security
Autumn/Spring 6 cp
(2hrs contact per week)
This subject provides students with a review of computer security with an emphasis on data encryption. Topics include: computer crime, legal aspects of information protection; mathematical methods for cryptography, complexity theory, information theory versus cryptography; review of classical and modern ciphers including symmetric encryption algorithms, public-key cryptography, information access control mechanism; secure communication protocols; authentication methods; applications in computer networks and databases.

CSCI973 Computer Assisted Learning
Autumn/Spring 6 cp
(2hrs contact per week)
This subject covers the current state of Computer Assisted Learning systems, the enabling technologies, and the inter-relationship between pedagogical theory and technological developments.

CSCI974 Systems Analysis
Autumn/Spring 6 cp
(2hrs contact per week)
This subject concentrates on the analysis and design stages of the software implementation process. It provides students with an understanding of the engineering issues related to the initial implementation of a specified system and to the problems of long term maintenance and evolution. Dataflow entity-relationship, object models and other design approaches are reviewed. Case studies include projects in the real time area.

CSCI980 Preliminary Topics in Computer Science A
Autumn/Spring 6 cp
(2hrs contact per week)
A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.
CSCI981 Preliminary Topics in Computer Science B
Autumn/Spring 6cp
(2hrs contact per week).
A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.

CSCI982 Preliminary Topics in Computer Science C
Autumn/Spring 6 cp
(2hrs contact per week).
A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.

CSCI983 Preliminary Topics in Computer Science D
Autumn/Spring 6 cp
(2hrs contact per week).
A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.

CSCI991 Project 12 cp
CSCI992 Minor Thesis 24 cp
CSCI993 Thesis 48 cp

INFORMATION AND COMMUNICATION TECHNOLOGY

COURSES OFFERED
The following postgraduate courses are available:

1. Graduate Certificate in Information and Communication Technology
2. Graduate Certificate in Information and Communication Technology (Telecommunications)
3. Graduate Certificate in Information and Communication Technology (Information Security)
4. Master of Information and Communication Technology
5. Honours Master of Information and Communication Technology by Coursework and/or Research
6. Doctor of Philosophy

CURRENT RESEARCH AREAS
The following areas of research are available to candidates undertaking the Honours Master of Information and Communication Technology degree by research and the Doctor of Philosophy degree:

Health Informatics
Smart Cards
Information Privacy and Security
Risk Analysis and Management

Telecommunications
Management
Policy
Regulation
International Communications
Network Planning
Industry Development

Information Technology
Education Delivery
Information Privacy and Security
Infrastructure
Management of Change
Computer Mediated Communication
Electronic Commerce

SCHEDULE OF GRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>IACT901</td>
<td>IT Strategic Planning</td>
<td>6</td>
</tr>
<tr>
<td>IACT902</td>
<td>Applied Project Management</td>
<td>6</td>
</tr>
<tr>
<td>IACT904</td>
<td>International Telecommunications Policy Issues</td>
<td>6</td>
</tr>
<tr>
<td>IACT906</td>
<td>Information Technology and Innovation</td>
<td>6</td>
</tr>
<tr>
<td>IACT916</td>
<td>Organisational Issues in Information Technology</td>
<td>6</td>
</tr>
<tr>
<td>IACT917</td>
<td>The Information Market</td>
<td>6</td>
</tr>
<tr>
<td>IACT918</td>
<td>Telecommunications Management</td>
<td>6</td>
</tr>
<tr>
<td>IACT919</td>
<td>On-line Information Services</td>
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<tr>
<td>Number</td>
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</tr>
<tr>
<td>IACT922</td>
<td>Case Studies in Information Technology Applications</td>
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<tr>
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<td>IACT923</td>
<td>IT and Small Business</td>
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<tr>
<td>IACT924</td>
<td>Advanced Telecommunications Network Planning</td>
<td>6</td>
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<tr>
<td>IACT926</td>
<td>Information Society, Knowledge Work and Information Technology</td>
<td>6</td>
</tr>
<tr>
<td>IACT930</td>
<td>Special Topics</td>
<td>6</td>
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<tr>
<td>IACT931</td>
<td>Special Topics in Information &amp; Communication Technology - A</td>
<td>6</td>
</tr>
<tr>
<td>IACT932</td>
<td>Special Topics in Information &amp; Communication Technology - B</td>
<td>6</td>
</tr>
<tr>
<td>IACT933</td>
<td>Special Topics in Telecommunications Issues</td>
<td>6</td>
</tr>
<tr>
<td>IACT950</td>
<td>Research Report</td>
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<tr>
<td>IACT940</td>
<td>Research Methodology</td>
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<tr>
<td>IACT960</td>
<td>Minor Thesis</td>
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<tr>
<td>IACT970</td>
<td>Major Thesis</td>
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**Part B**

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>CSCI948* Theory and Tools of Database Design</td>
<td>6</td>
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<tr>
<td>CSCI954* Artificial Intelligence</td>
<td>6</td>
</tr>
<tr>
<td>CSCI955* Computer Networks</td>
<td>6</td>
</tr>
<tr>
<td>CSCI957* Advanced Topics in Database Management</td>
<td>6</td>
</tr>
<tr>
<td>CSCI964* Neural Computing</td>
<td>6</td>
</tr>
<tr>
<td>CSCI962* Logic and Databases</td>
<td>6</td>
</tr>
<tr>
<td>STS945 Technology and Economics</td>
<td>6</td>
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<tr>
<td>STS946 Management of Technological Change</td>
<td>6</td>
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</tbody>
</table>

Any 900 level BUSS subject, subject to approval by the relevant Heads of Departments/School.

No candidate may select more than 18 credit points from Part B.

* These subjects have pre-requisites.

All subjects may not be available every year.

**SCHEDULE OF SUBJECTS FOR THE GRADUATE CERTIFICATE IN INFORMATION AND COMMUNICATION TECHNOLOGY**

A candidate must satisfactorily complete at least 24 credit points from the following schedule:

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<td>IACT916</td>
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All subjects may not be available every year.

**SCHEDULE OF SUBJECTS FOR THE GRADUATE CERTIFICATE IN INFORMATION AND COMMUNICATION TECHNOLOGY (TELECOMMUNICATIONS)**

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<tr>
<th>Number</th>
<th>Subject</th>
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</tr>
</thead>
<tbody>
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<td>IACT904</td>
<td>International Telecommunications Policy Issues</td>
<td>6</td>
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<tr>
<td>IACT918</td>
<td>Telecommunications Management</td>
<td>6</td>
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<tr>
<td>IACT919</td>
<td>On-line Information Services</td>
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<td>IACT924</td>
<td>Advanced Telecommunications Network Planning</td>
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<tr>
<td>ELEC865</td>
<td>Integrated Services Networks**</td>
<td>6</td>
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<tr>
<td>ELEC867</td>
<td>Teletraffic Engineering**</td>
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<tr>
<td>ELEC868</td>
<td>Digital Transmission Systems**</td>
<td>6</td>
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<td>ELEC960</td>
<td>Telecommunications Systems**</td>
<td>6</td>
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<tr>
<td>ELEC961</td>
<td>Digital Signal Processing**</td>
<td>6</td>
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<tr>
<td>ELEC962</td>
<td>Analysis and Transmission of Signals**</td>
<td>5</td>
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<tr>
<td>ELEC963</td>
<td>Advanced Digital Signal Processing**</td>
<td>6</td>
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<tr>
<td>IACT922</td>
<td>Case Studies in Information Technology Applications</td>
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<tr>
<td>CSCI980</td>
<td>Preliminary Topics in Computer Science A</td>
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<tr>
<td>IACT930</td>
<td>Special Topics</td>
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<tr>
<td>CSCI971</td>
<td>Computer Security (Advanced)</td>
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</tbody>
</table>

**SCHEDULE OF SUBJECTS FOR THE GRADUATE CERTIFICATE IN INFORMATION AND COMMUNICATION TECHNOLOGY (INFORMATION SECURITY)**

**COURSE REQUIREMENTS**

1. **GRADUATE CERTIFICATE IN INFORMATION AND COMMUNICATION TECHNOLOGY**

This one year part-time course is designed for graduates from a recognised tertiary institution. The objective of the Graduate Certificate is to provide an introductory study of the concepts of information and communication technology. The course will cover the issues which arise in the implementation and application of information technology. It addresses the challenge of educating managers and executives about the organisational, economic, regulatory and social problems that must be solved as highly complex technological systems are implemented.

The Graduate Certificate in Information and Communication Technology shall be subject to the University Rules for the award of Graduate Certificate together with the following conditions:

(1) Applicants for the Graduate Certificate in Information and Communication Technology must have been admitted to the degree of Bachelor in the University or other approved institution. In special circumstances an applicant holding other academic or professional qualifications and with relevant work experience and/or employer support may be admitted as a candidate.

(2) Candidates must satisfactorily complete at least 24 credit points from the Schedule of Subjects for the Graduate Certificate, of which at least 12 credit points are from the list of Core Subjects.

(3) Students qualifying for the Graduate Certificate in Information and Communication Technology who have achieved an average of a credit grade or better over all subjects, will be able to proceed to the Master of Information and Communication Technology. They will receive advanced standing of 24 credit points. The completion of the Masters will then require the satisfactory completion of a further 24 credit points as specified in the schedule for that course.

(4) 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 of this University, the candidate shall surrender the testamur and all rights relating to the graduate certificate.

2. **GRADUATE CERTIFICATE IN INFORMATION AND COMMUNICATION TECHNOLOGY (TELECOMMUNICATIONS)**

Conditions 1, 3, 4 are identical to those of the Graduate Certificate in Information and Communication Technology. Condition 2 follows:

(2) Under the Graduate Certificate Rules, candidates must satisfactorily complete a total of not less than 24 credit points from Parts A and B of the Schedule of Subjects for the Graduate Certificate in Information and Communication Technology (Telecommunications). Of the 24 credit points attempted, at least 12 credit points must be IACT subjects from Part A.

3. **GRADUATE CERTIFICATE IN INFORMATION AND COMMUNICATION TECHNOLOGY (INFORMATION SECURITY)**

Conditions 1, 3, 4 are identical to those of the Graduate Certificate in Information and Communication Technology. Condition 2 follows:

(2) Under the Graduate Certificate Rules, candidates must satisfactorily complete a total of not less than 24 credit points from the Schedule of Subjects for the Graduate Certificate in Information and Communication Technology (Information Security).

4. **MASTER OF INFORMATION AND COMMUNICATION TECHNOLOGY**

The purpose of this degree is to provide graduates working in the area of information technology and telecommunications with a deeper understanding of the organisational, economic and policy issues essential to the effective management of information technology.

The degree of Master of Information and Communication Technology shall be subject to the University Course Rules for the award of the degree of Master, together with the following conditions:

(1) Entry to the Master of Information and Communication Technology will be on the recommendation of the Head Information Technology and Computer Science. Candidates would normally have, either:
Faculty of Informatics

(1) the Graduate Certificate in Information and Communication Technology (with an average of a credit grade or better over all subjects); or
(b) a degree related to one of the following areas: computing; engineering; communication studies; information studies and management; or
(c) an appropriate balance between a University degree and relevant professional experience in information and/or communication technology.

In addition, applicants must have at least one year of relevant professional experience in information and/or communication technology.

(2) The Master of Information and Communication Technology degree will normally occupy one year of full-time study or part-time equivalent, and requires satisfactory completion of 900 level subjects to the value of at least 48 credit points (excluding the subjects IACT960 and IACT970), selected from the Schedule of Graduate Subjects, School of Information Technology and Computer Science.

5. HONOURS MASTER OF INFORMATION AND COMMUNICATION TECHNOLOGY

The degree of Honours Master of Information and Communication Technology shall be subject to the University Course Rules for the award of the degree of Honours Master, together with the following conditions:

(1) Entry to the Honours Master of Information and Communication Technology will be on the recommendation of the Head of School of Information Technology and Computer Science. Candidates would normally have:

(a) a Bachelor of Information and Communication Technology (Hons) at a standard of Class II, Division 2 or better (or equivalent)
or
(b) a Master of Information and Communication Technology (or equivalent)

(2) The Master of Information and Communication Technology (Hons) degree will normally occupy one year of full-time study or part-time equivalent, and requires satisfactory completion of one of the following options:

(a) IACT970,
or
(b) IACT960 and 900 level subjects with the value of at least 12 credit points selected from the Schedule of Graduate Subjects in this section of the University calendar.

Candidates in this option may not enrol in any subjects from Part B of the Schedule.

(3) Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Information Technology and Computer Science.

6. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in IACT970.

SUBJECT DESCRIPTIONS

Not all 900 level subjects will be offered every year. Intending candidates should consult with academic advisers in the Department (or the University Timetable) for further advice.

Textbooks

Textbooks will be advised where appropriate otherwise comprehensive reading lists will be provided in the first lecture of each subject.

IACT901 IT Strategic Planning

Autumn/Spring 6 cp

Contact hrs: 1 hr lecture; 2 hrs minar/practicals/workshops.
Pre-Requirement: 24 credit points of 300 level subjects from the BInfoTech schedule
Assessment: report (1500 words); report (2500 words); major report (IT plan), seminar.
This subject aims to provide students with an understanding of IT strategic planning in today's global business environment. Today most businesses compete in a global environment; a sound IT Strategy is essential to facilitate this. This subject covers key areas of IT strategic planning, background issues in strategic planning, the planning life cycle, the components of a strategic plan and management of the strategic plan.

IACT902 Applied Project Management

Autumn/Spring 6 cp

Contact hrs: 1 hr lecture; 2 hrs minar/practicals/workshops.
Pre-Requirement: 24 credit points of 300 level subjects from the BInfoTech schedule
Assessment: analysis report; design report; implementation of project; seminar.
This subject deals with the efficient management of a medium size project to ensure that a project meets deadlines and is within its budget. It covers the process of planning, directing and controlling the development of an IT project. Topics covered will include project management tools, software and techniques; expectations management; and use of people management (the subtle art of delegation and accountability). Students will test the principles on the plan, design and implementation of a medium size project.

IACT903 International Telecommunications Policy Issues

Autumn/Spring 6 cp

Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: examination; tutorial/seminar assignments; essay.
IACT 903 provides students with an understanding of the various political, economic, social and technical factors surrounding telecommunications policy and issues within the telecommunications sector. The interdisciplinarity of telecommunications policy is explored with particular reference to issues in the development of telecommunications policy in Australia and overseas. Issues in the development of telecommunications policy in Australia and overseas are reviewed as well as the regulatory frameworks adopted by different countries (eg, Australia and the United States) and regions (eg, European Union and South East Asia).

IACT904 Information Technology and Innovation

Autumn/Spring 6 cp

Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: examination; tutorial/seminar assignments; essay.
IACT 904 provides students with an understanding of the various political, economic, social and technical factors surrounding information technology and the innovation process. This subject addresses key themes such as: the importance of innovation to the economy and the firm; the links between information, information technology and innovation; and, the development of effective national policies to promote industrial innovation.
ICT916 Organisational Issues in Information Technology
Autumn/Spring 6 cp
Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: seminar presentation; seminar paper; essay.
Effect on organisational information flows of growth in size and complexity: the management and technological response; information technology as a catalyst in codifying work procedures and creating new organisational structures; hierarchical versus horizontal approaches to information management; implications of broad-band networks for traffic integration.

ICT917 The Information Market
Autumn/Spring 6 cp
Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: essays; seminar presentation; seminar paper; report on 1 seminar.
This subject aims to provide an understanding of the extent and importance of the information industry both in Australia and internationally. It examines the ownership and exploitation of information as a source of social, political and economic power. Legal protection for information as an economic good (for example as intellectual property) is also explored. An important focus in this subject is the effect of information and communication technologies on the economics of information delivery.

ICT918 Telecommunications Management
Autumn/Spring 6 cp
Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: examination; 1,500 word essays, seminars. ICT918 examines the role of telecommunications in corporate strategy. Areas covered include: cost control versus business development; regulatory and strategic issues in the use of private and public networks; service options in LANS; PBXs, broadband in intra-office communications; integration of voice, data and video in global networks.

ICT919 Online Information Services
Autumn/Spring 6 cp
Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: practical work; essays; project or report; seminar and paper.
This subject examines the emergence of electronic information supermarkets and the changes within the online information industry as mass media conglomerates have entered the field. Other aspects covered include: the role of government in online services development; the future of public information sources such as libraries; and the potential of the Internet and the world wide web in online information delivery. Some practical experience in the use of electronic information services is provided.

ICT920 Case Studies in Information Technology Applications
Autumn/Spring 6 cp
Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: report; group project; seminar presentation; seminar paper. ICT920 examines leading edge technological developments and the issues arising from the innovative uses of such technology. This subject covers innovative and new applications of information technology to create services and systems, eg electronic banking, video conferencing, multimedia, EDI and CD-ROM. In order to provide a thorough background and understanding of an application, normally only one case will be studied in the subject in any one semester. Cases that may be covered include, multimedia, EDI and EFTPOS.

ICT923 IT and Small Business
Autumn/Spring 6 cp
Contact hrs: 1 hr lecture; 2 hrs seminar/tutorial.
Assessment: examination; seminar presentation; seminar paper; examination project. ICT923 aims to provide the student with an understanding of the major issues arising for small business in regard to information technology - its application, implementation and management. This subject will study the relationship between small business and IT, the management of IT in small business and the impact of IT on small business with reference to a number of critical areas such as productivity, staff development, accessibility of technology, business size and activity, change management, research and development.

ICT924 Advanced Telecommunications Network Planning
Autumn/Spring 6 cp
Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: examination, seminar, case study.
This subject examines: (1) the need for forward network planning; (2) traffic flow control and forecasting; (3) network security; (4) long range planning considerations; (5) dimensioning; and, (6) project management techniques that are relevant to the telecommunications network planning and implementation process.

ICT926 Information Society, Knowledge Work and Information Technology
Autumn/Spring 6 cp
Contact hrs: 1 hr lecture; 2 hrs minar/tutorial.
Assessment: examination; seminar presentation; seminar paper; essay; project. ICT426 examines the concept of 'information society' and its measurement. It also examines the changing structure of the workforce with an investigation of the place and role of knowledge workers in the labour force being a core element. An examination of the trends affecting knowledge workers in Australia, and internationally, with respect to increasing credentialism, life-long learning and issues relating to their education and training will be undertaken. The introduction and application of IT affects each of these areas.

ICT930 Special Topics
Autumn/Spring 6 cp
3 contact hrs: 1 hr lecture; 2hrs minar/tutorial.
Pre-Requisite: 24 credit points of 300 level subjects from the Binfotech schedule.
Topics will be selected from areas of interest of staff members or visiting staff members to the Department. These will include topics in the application of information and communication technology. It is a rapidly changing area. This subject will allow investigation into topics at the forefront of the discipline.

ICT931 Special Topics in Information & Communication Technology - A
Autumn/Spring 6 cp
3 contact hrs: 1 hr lecture; 2hrs minar/tutorial.
Pre-Requisite: 24 credit points of 300 level subjects from the Binfotech schedule.
Topics will be selected from areas of interest of staff members or visiting staff members to the Department. These will include topics in the application of information and communication technology. It is a rapidly changing area. This subject will allow investigation into topics at the forefront of the discipline.

ICT932 Special Topics in Information & Communication Technology - B
Autumn/Spring 6 cp
3 contact hrs: 1 hr lecture; 2hrs minar/tutorial.
Pre-Requisite: 24 credit points of 300 level subjects from the Binfotech schedule.
Topics will be selected from areas of interest of staff members or visiting staff members to the Department. These will include topics in the application of information and communication technology. It is a rapidly changing area. This subject will allow investigation into topics at the forefront of the discipline.

ICT933 Special Topics in Telecommunications Issues
Autumn/Spring 6 cp
3 contact hrs: 1 hr lecture; 2hrs minar/tutorial.
Topics will be selected from areas of interest of staff members or visiting staff members to the Department. This subject will allow investigation into topics at the forefront of the discipline.

ICT940 Research Methodology
Autumn 6 cp
3 contact hrs: 1 hr lecture; 2 hrs seminar/practicals/workshops.
This subject introduces the Binfotech students to research methodology. Topics include the purpose of research, formulating a research question, conducting a literature review and writing a research proposal. Students will gain an understanding of the different research methodologies, including qualitative and quantitative analysis. Students will learn how to design an appropriate research plan.
Requirements for scholarly writing will also be discussed and the process of undertaking a research project will be analysed.

**IACT950 Research Report**
Annual 12 cp
This subject involves undertaking a project. Where possible the projects are related to the research interests of the Department and/or staff and are chosen to develop the student's research skills. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

**IACT960 Minor Thesis**
Annual 36 cp
This subject will be externally accessed.

**IACT970 Major Thesis**
Annual 48 cp
This subject will be externally accessed.
SCHOOL OF MATHEMATICS AND APPLIED STATISTICS

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Science by either Research or both Coursework and Research
3. Master of Mathematics
4. Master of Statistics
5. Graduate Diploma in Statistics

POSTGRADUATE PROGRAMS

Applied Statistics
Engineering & Industrial Mathematics
Pure Mathematics

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Science degree by research and the Doctor of Philosophy degree:

- Combinatorial designs
- Continuum mechanics
- Epidemiology
- Experimental design
- Fluid mechanics
- Functional analysis
- Goodness of fit
- Hadamard matrices
- Image analysis
- Industrial applications of mathematics
- Logic
- Measure theory
- Multivariate analysis
- Non-linear boundary value problems
- Non-linear partial differential equations
- Nonparametric and partially parametric inference
- Numerical wave modelling
- Oceanography
- Population dynamics and plant growth
- Quantum mechanics
- Quasi-likelihood
- Sample survey design and methodology
- Set theory
- Solid and fracture mechanics
- Statistical decision theory
- Statistical quality control
- Topological Groups
- Topology

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN ENGINEERING & INDUSTRIAL MATHEMATICS

leading to the degree of Honours Master of Science or Master of Mathematics.

<table>
<thead>
<tr>
<th>Number</th>
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<td>Solution of Differential Equations by One-Parameter Groups</td>
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<td>MATH911</td>
<td>Coastal Dynamics*</td>
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<tr>
<td>MATH912</td>
<td>Mathematics of Microwave Heating</td>
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<tr>
<td>MATH913</td>
<td>Fluid Mechanics and Wave Theory</td>
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<td>MATH914</td>
<td>Analytical Dynamics</td>
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<td>MATH915</td>
<td>Applied Nonlinear Partial Differential Equations*</td>
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<td>MATH916</td>
<td>Heat Conduction and Moving Boundary Problems*</td>
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<td>MATH917</td>
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<td>MATH918</td>
<td>Computational Fluid Mechanics</td>
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<td>MATH971</td>
<td>Advanced Topics in Applied Mathematics A</td>
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<td>MATH980</td>
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For further details, see Course Requirements below.

**POSTGRADUATE PROGRAMS IN PURE MATHEMATICS**

leading to the degree of Honours Master of Science or Master of Mathematics.

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<td>Stability for Partial Differential Equations*</td>
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<td>MATH905</td>
<td>Functional Analysis and Control Theory*</td>
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<td>MATH921</td>
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<td>Measure and Integration</td>
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<td>Distributions*</td>
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Program B - Foundations of Mathematics

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<td>MATH925</td>
<td>Topics in Algebra</td>
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<td>MATH926</td>
<td>Logic and Set Theory*</td>
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<td>MATH927</td>
<td>Combinatory Logic*</td>
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<td>MATH929</td>
<td>General Topology*</td>
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For further details, see Course Requirements below.

**POSTGRADUATE PROGRAM IN APPLIED STATISTICS**

leading to the degree of Honours Master of Science or Master of Statistics or the Graduate Diploma in Statistics.

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<td>Major Thesis</td>
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<td>Electives</td>
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Number | Subject | Credit Points
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STAT901 | Modern Inference | 6
STAT902 | Advanced Data Analysis | 6
STAT903 | Survey Design and Analysis | 6
STAT904 | Statistical Consulting | 6
STAT905 | Time Series* | 6
STAT906 | Experimental Design* | 6
STAT941 | Statistical Quality Control 1* | 6
STAT942 | Design & Analysis for Quality Control | 6
STAT944 | Regression and Observational Studies* | 6
STAT971 | Preliminary Topics in Statistics A | 6
STAT972 | Preliminary Topics in Statistics B | 6
STAT981 | Advanced Topics in Statistics A | 6
STAT982 | Advanced Topics in Statistics B | 6
STAT983 | Advanced Topics in Statistics C | 6

*Not on offer in 1998.

For further details, see Course Requirements below.

**COURSE REQUIREMENTS**

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in either MATH993 or STAT993.

2. HONOURS MASTER OF SCIENCE (IN MATHEMATICS)

The degree of Honours Master of Science shall be subject to the University Course Rules for the award of the degree of Honours Master together with the following conditions.

1. A candidate shall undertake research, or a course of graduate studies and research, normally chosen from one of the postgraduate programs offered by the School of Mathematics and Applied Statistics.

2. Entry to the Honours Master of Science will normally be from an Honours bachelor degree in Mathematics at a standard of Class II, Division 2 or higher. Entry may also be approved for candidates with the qualification of Master of Mathematics on the recommendation of the Head of the School of Mathematics and Applied Statistics.

3. The Honours Master of Science will normally occupy two sessions of full-time study or four sessions of part-time study, and requires satisfactory completion of 900 level subjects to the value of at least 48 credit points chosen from one of the postgraduate programs offered by the School of Mathematics and Applied Statistics including either:

   a. the subject MATH993 (48 credit points), or
   
   b. the subject MATH992 (36 credit points) and other 900 level subjects to the value of at least 12 credit points approved by the Head of School. In exceptional circumstances, and subject to approval of the Head of the School, subjects with the value of at most 6 credit points from the program may be replaced by any other 900 level subjects with value of at least 6 credit points.

4. 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.

5. Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Mathematics and Applied Statistics.

6. Before the award of Honours Master of Science 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.

3. HONOURS MASTER OF SCIENCE (IN STATISTICS)

The degree of Honours Master of Science shall be subject to the University Course Rules for the award of the degree of Honours Master together with the following conditions.

1. A candidate shall undertake research, or a course of graduate studies and research, normally chosen from one of the postgraduate programs offered by the School of Mathematics and Applied Statistics.

2. Entry to the Honours Master of Science will normally be from an Honours bachelor degree in Statistics at a standard of Class II, Division 2 or higher. Entry may also be approved for candidates with the qualification of Master of Statistics on the recommendation of the Head of the School of Mathematics and Applied Statistics.

3. The Honours Master of Science will normally occupy two sessions of full-time study or four sessions of part-time study, and requires satisfactory completion of 900 level subjects to the value of at least 48 credit points chosen from one of the postgraduate programs offered by the School of Mathematics and Applied Statistics including either:

   a. the subject STAT993 (48 credit points), or
   
   b. the subject STAT992 (36 credit points) and other 900 level subjects to the value of at least 12 credit points approved by the Head of School. In exceptional circumstances, and subject to approval of the Head of the School, subjects with the value of at most 6 credit points from the program may be replaced by any other 900 level subjects with value of at least 6 credit points.

4. 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.

Before the award of Honours Master of Science 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.

4. MASTER OF MATHEMATICS

The degree of Master of Mathematics shall be subject to the University Course Rules for the award of the degree of Master together with the following conditions.

1. A candidate shall undertake a course of graduate studies and research, normally chosen from the graduate subjects offered by the School of Mathematics and Applied Statistics.

2. Entry to the Master of Mathematics will normally be from a pass degree with an appropriate 3 year sequence in Mathematics, or, subject to the approval of Council on the recommendation of the Head of School, from a degree or diploma containing substantial study in an appropriate discipline.

3. The Master of Mathematics will normally occupy two sessions of full-time study or four sessions of part-time study, and requires satisfactory completion of 900 level subjects to the value of at least 48 credit points, including the subject MATH991 (12 credit points) and other 900 level subjects to the value of at least 36 credit points approved by the Head of School. In exceptional circumstances, and subject to approval of the Head of the School, subjects with the value of at most 12 credit points, other than MATH991, may be replaced by other 900 level subjects with value of at least 12 credit points offered by departments other than the School of Mathematics and Applied Statistics.

4. 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.

5. Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Mathematics and Applied Statistics.

5. MASTER OF STATISTICS

The degree of Master of Statistics shall be subject to the University Course Rules for the award of the degree of Master together with the following conditions.

1. A candidate shall undertake a course of graduate studies, normally chosen from the graduate Statistics subjects offered by the School of Mathematics and Applied Statistics.

2. Entry to the Master of Statistics will normally be from a pass degree with an appropriate 3 year sequence in Statistics, or an appropriate Graduate Diploma, or, subject to the approval of Council on the recommendation of the Head of School, from a degree or diploma containing substantial study in an appropriate discipline.

3. The Master of Statistics will normally occupy two sessions of full-time study or four sessions of part-time study, and requires satisfactory completion of 900 level Statistics subjects to the value of at least 48 credit points approved by the Head of School. The subject STAT990 must be included, except that with the approval of the Head of the School the subject STAT991 may replace STAT990. In some circumstances, and subject to approval of the Head of the School, Statistics subjects with the value of at most 12 credit points may be replaced by other 900 level subjects with the same or greater credit point value.

4. 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.

5. Each candidate shall have a supervisor appointed on the recommendation of the Head of the School of Mathematics and Applied Statistics.

Satisfactory completion of the Master of Statistics permits registration for HONOURS MASTER OF SCIENCE (in the School of Mathematics and Applied Statistics).

6. GRADUATE DIPLOMA IN STATISTICS

In addition to the University's Rules for Graduate Diplomas, candidates for the Graduate Diploma in Statistics shall:

1. complete Statistics subjects to a value not less than 36 credit points from those listed in the schedule of the BMath and MStat, at least 24 credit points being for subjects at the 300-level or 900-level. With approval of the Head of School STAT949 may be included instead of a 100 or 200 level subject;

2. not include in the diploma program subjects which, in the opinion of the Head of School, are equivalent in contents to those for which credit has already been obtained towards some other degree or diploma;

3. have their programs approved by the Head of School before enrolling.

Satisfactory completion of the Graduate Diploma in Statistics permits registration for MASTER OF STATISTICS.

SUBJECT DESCRIPTIONS

Subjects
For further details, see the postgraduate coursework co-ordinator: Associate Professor D Steel.

Textbooks
Students will be advised on the appropriate texts for each subject in the first lecture of the subject. In all cases, the lecturer should be consulted before textbooks are purchased.

Credit Points
All subjects listed below, with the exception of MATH991, MATH992, MATH993, STAT991, STAT992 and STAT993 have a credit point value of 6.
Contact Hours
All subjects listed below involve at least one contact hour per week for both sessions, or its equivalent.

Method of Assessment
All 900-level subjects will be assessed by final examinations, or final examinations and limited assignments.

MATH902 Solution of Differential Equations by One-Parameter Groups 6 cp
Assessment: examination and assignments.

MATH903 Mean Periodic Functions 6 cp
Assessment: examination and assignments.
An introduction to L. Schwartz's theory of mean periodic functions using the transform of J. P. Kahane. Applications to differential equations.

MATH904 Stability for Partial Differential Equations 6 cp
Assessment: essay, examination and assignments.
Pre-Requisite: MATH305.
This subject is concerned with parabolic and elliptic partial differential equations. The main topic is the stability of solutions under changes in initial values or other parameters connected with the equations. Some of the tools that will be used are an analysis of the spectrum for elliptic operators and the Linearization Principle.

MATH905 Functional Analysis and Control Theory 6 cp
Assessment: examination and assignments.
This subject introduces several function spaces and then examines how they can be used in the theory of partial differential equations and control theory. Some of the topics considered will be the existence and uniqueness of solutions for hyperbolic and parabolic partial differential equations and the exact controllability for systems governed by the wave equation.

MATH911 Coastal Dynamics 6 cp
Assessment: examination and assignments.
Generation and propagation of continental shelf waves of high and low frequency in homogeneous and non-homogeneous oceans, response of the ocean over a shelf to atmospheric disturbances, detection and measurement of shelf waves, dissipative influences, standing edge waves and their relation to beach geomorphology, modelling of physical marine systems.

MATH912 Mathematics of Microwave Heating 6 cp
Assessment: examination and assignments.
Electrostatics, Gauss' law, magnetic fields, induction, Maxwell's equations, the damped wave equation, the forced heat equation, solutions of microwave heating for constant conductivity, temperature dependent conductivity, hotspots.

MATH913 Fluid Mechanics and Wave Theory 6 cp
Assessment: examination and assignments.
Hyberbolic partial differential equations, conservation laws, shallow water equations, dispersive waves, solution theory, gas dynamics, shock waves, flow past bodies, conformal mapping, aerofoil theory.

MATH914 Analytical Dynamics 6 cp
Assessment: examination and assignments.
Lagrangian and Hamiltonian formulations, symmetry and conservation laws. Regular and chaotic motion. Strange attractors.

MATH915 Applied Nonlinear Partial Differential Equations 6 cp
Assessment: examination and assignments.

MATH916 Heat Conduction and Moving Boundary Problems 6 cp
Assessment: examination and assignments.
Solutions of the heat equation, semi-infinite media, solution by Fourier series, solutions by heat-balance, classical moving boundary problems, large Stefan number expansions, integral formulation, bounds, integral equations, polynomial approximations, boundary fixing series solutions.

MATH917 Advanced Numerical Analysis 6 cp
Assessment: examination and assignments.

MATH918 Computational Fluid Mechanics 6 cp
Assessment: examination and assignments.
Finite-difference and finite element methods applied to incompressible inviscid flow problems and compressible viscous flow problems. Introduction to Boundary-element technique and its application to potential flows. The relationship between these numerical approaches will also be discussed.

MATH921 Advanced Functional Analysis 6 cp
Assessment: examination and assignments.
Normed spaces, Banach spaces, applications of the theory of linear operators to other areas of analysis such as Fourier analysis, quadrature formulæ and integral equations.

MATH923 Measure and Integration 6 cp
Assessment: examination and assignments.
Lebesgue measure and more general measures, measurable functions, Lebesgue integration and its properties, behaviour of integrals under taking limits, product integrals.

MATH924 Distributions 6 cp
Assessment: examination and assignments.
Mikusinski's theory of convolution quotients and an introduction to L. Schwartz's theory of distributions. Properties of the space of continuous functions of a single real variable (equipped with a suitable topology) and dual space.

MATH925 Topics in Algebra 6 cp
Assessment: examination and assignments.
Partially ordered sets, lattices, Boolean algebras and Boolean rings, orthomodular lattices.

MATH926 Logic and Set Theory 6 cp
Assessment: examination and assignments.
Axiomatic propositional and predicate logic, nonclassical logics, applications to circuit theory and logic programming, introduction to Axiomatic Set Theory.

MATH927 Combinatory Logic 6 cp
Assessment: examination and assignments.
Introduction to Pure and Flatture combinatory logic, relation to lambda-conversion, functionality, application to propositional and predicate calculus.

MATH928 Advanced Measure Theory 6 cp
Assessment: examination and assignments.
Pre-Requisite: MATH923.
Construction of outer, measures, Hausdorff measures, signed measures, Radon-Nikodym theorem, differentiation of measures.

MATH929 General Topology 6 cp
Assessment: examination and assignments.
This subject is a systematic discussion of topological spaces and associated concepts which are of fundamental importance in various areas of mathematics. The topics covered will include topologies, bases and sub bases for topologies, separation properties of topologies, product and quotient topologies, and connectedness and compactness. Depending upon students' interests and backgrounds, excursions into the following or other areas are possible: topological groups, programming language semantics, elementary algebraic topology, dimension theory and cardinal invariants.

MATH971 Advanced Topics in Applied Mathematics 6 cp
Assessment: examination and assignments.
Topics will be selected from the areas of interest of staff members or visiting staff members of the School.
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<td>STAT903</td>
<td>Survey Design and Analysis</td>
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<td>STAT904</td>
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<td>STAT905</td>
<td>Time Series</td>
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*Not on offer in 1998
FACULTY OF LAW

RESEARCH COURSES AVAILABLE

The Faculty offers Honours Master of Laws, Honours Master of Arts, Honours Master of Commerce, Honours Master of Laws (Natural Resources Law), Honours Master of Natural Resources Law, Honours Master of Laws (Court Management), Honours Master of Court Management and the Doctor of Philosophy degrees by research.

POSTGRADUATE PROGRAMS

Postgraduate programs are available in the Faculty in the following areas:

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<th>CONTENT</th>
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<td>Court Management</td>
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<td>Law</td>
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<td>Natural Resources Law</td>
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The University attempts to ensure that information contained in this publication is up to date at the time of printing but sections may be amended without notice by the University in response to changing circumstances for any other reasons. Classes in any subject may be cancelled if enrolments do not reach the levels approved for the effective presentation of the topic area. Students should check with the University at the time of application/enrolment whether any later information is available in respect of any material contained in this Calendar.

The University reserves the right to change the content or method of presentation of any unit of study, or to withdraw any unit or source of study which it offers, or impose limitation on enrolment in any unit or course as a result of resource limitations or for any other reason.
FULL TIME STAFF

Dean
Professor Helen E C Gamble, LLB LLM ANU, Barrister and Solicitor ACT, Barrister NSW

Sub-Dean
Damien Considine, BA LLB UNSW, LLM Sydney, Solicitor and Attorney NSW and High Court

Administrative Assistants
Maria Agnew .................................................................(02) 42214635
Shelley Johnson.............................................................(02) 42213456
Felicia Martin.................................................................(02) 42214426
Frances Sullivan, BA, MATEM ..........................................(02) 42214426

Professors
M David Farrier, LLB Lond, LLM Col, DipCrim Camb, Barrister NSW
John Goldring, BA LLB Sydney, LLM Col, Barrister NSW, Barrister and Solicitor ACT and PNG
B Martin Tsamenyi, LLB Ghana, MINTL PhD ANU

Associate Professors
Robin P Handley, LLB Warw, LLM ANU, Solicitor, England and Wales, Solicitor and Barrister ACT and High Court
Associate Professor Colin J H Thompson, BA LLM Sydney, Solicitor NSW, Barrister and Solicitor ACT

Adjunct Professor
Lindsay J Curtis, BSc LLB Melb, Barrister and Solicitor ACT and PNG

Honorary Professorial Fellows
Leroy Certorna BA LLB LLM (Syd), Doctor in Jurisprudence
John Cole, BComm LLB LLM, UNSW
Peter Hopkins, BSc, LLB(Hons) ANU
Beverley Hoskinson-Green, LLB NSW, LLM(Hons) Harvard
Paolo Ricci, BSc La Salle College, MA Temple, MSc PhD Drexel, MPA Harvard, JD Newport, LLM Leicester
Greg Rose, BA LLB LLM Monash
Jillian Segal, BA LLB NSW, LLM Harvard
Shane Simpson, LLB LLM Auckland
John Whitehouse, BA LLB Sydney, BSc Macq, DipLegalScience UTS
Ted Wright, BSc Toronto, LLB Dalhousie, MA Cambridge

Senior Lecturers
Charles Y C Chew, MA Sydney, DipEd NE, BLegS Macq, Barrister and Solicitor VIC, Barrister and Solicitor NSW
Jane G Innes, BSc LLM Sydney, Solicitor NSW, Barrister and Solicitor ACT and Vic
Luke McNamara, BA LLB UNSW, LLM Maniti

Lecturers
Patricia J Blazey-Ayoub, SRN Lon, BA LLB Macq, LLM Sydney, Solicitor and Barrister NSW, ACT High Court
Margaret Bond, BSW LLB UNSW, Solicitor NSW
Andrew D Frazer, BA LLB Sydney, PhD ANU
D Scott Grantan, BA LLB Macq, LLM Brit Col, Solicitor to appropriate firms NSW
Andrew H H Kelly, BTP LLB, UNSW, Grad Dip Leg Prac UTS, Solicitor NSW
Sandra Mercado, BA LLM Sydney, Barrister NSW
Thomas Musgrave, BA Winds, LLB BCL McGill, LLM Melb, PhD Sydney, Solicitor and Barrister Supreme Court Ontario
Natalie P Stobanoff, BSc LLB MATSc UNSW, Solicitor and Barrister NSW
Penelope Watson, BA(Hons) Tas, LLB UNSW, LLM Sydney, Barrister NSW

Research Director
Centre for Court Policy & Administration
Richard Mohr, BA (Hons) PhD UNSW

Honorary Fellow
William Dailey, BA LLB Sydney, Barrister ACT and NSW

Associate Fellow
Centre for Natural Resources Law & Policy
Linda Tucker, BA, LLB UNSW

PRACTICAL LEGAL TRAINING

Ainslie Lamb, LLB Melb, GDipSoc La Trobe, GDipFamlaw Monash, MEEd Melb Barrister and Solicitor - Victoria High Court, Legal Practice - NSW
Ian McCall, Solicitor Supreme Court NSW Solicitors' Admission Board

LAW LIBRARY

Librarian
Elizabeth White, BA GDipLib & Information Science (CSU)

Library Staff
Gay Antonopoulous, BA Wisconsin, AALIA
Cheryl Brindle-Jones, BA CSU
Vicki Dodd, BSc Macq, Dip IM-Lib NSW
Annette Meldrum

FACULTY VISITING COMMITTEE

The Honourable Judge R O Blanch, Chief Judge, District Court
Ms Patricia Bergin, Barrister, Sydney
Ms Marion Brown, Guardianship Board
Ms Sharyn C Y Liang, Principal Consultant Gilbert & Tobin
Mr Stephen Gates, Partner, Clayton Utz, Sydney
Mr Laurie Gianfield, Director-General, Attorney General's Department of NSW
The Honourable Dr Robert M Hope, AC, CNG, QC, LLB(Hons) LLD
Justice Mary J. M. Lawrie, Family Court of Australia
The Honourable Daryl Melham, MP, Chair House of Representatives Standing Committee on Legal and Constitutional Affairs
Ms Nancy Milne, Phillips Fox, Sydney
Ms Hilary Penfold, First Parliamentary Counsel
His Honour Judge Joseph Phelan, District Court of NSW
Mr Mark Richardson, Deputy Chief Executive Officer, Law Society of NSW
The Honourable Ms Helen Sham-Ho, MLC
Mr Richard St John, Secretary and General Counsel, BHP
Ms Sue Tongue, Immigration Review Tribunal
Justice William Windeyer, RFD, Supreme Court of NSW
COURSES OFFERED

The Faculty offers the following postgraduate diplomas and degrees:

1. Doctor of Philosophy
2. Honours Master of Laws by Research
3. Honours Master of Arts by Research
4. Honours Master of Commerce by Research
5. Honours Master of Laws (Natural Resources Law) by Research
6. Honours Master of Natural Resources Law by Research
7. Honours Master of Laws (Court Management) by Research
8. Honours Master of Court Management by Research
9. Honours Master of Arts by Coursework
10. Honours Master of Commerce by Coursework
11. Master of Laws (Court Management)
12. Master of Court Management
13. Master of Laws (Natural Resources Law) by Coursework
14. Master of Natural Resources Law by Coursework
15. Graduate Diploma in Law
16. Graduate Diploma in Law (Court Policy and Administration)
17. Graduate Diploma in Natural Resources Law
18. Graduate Diploma in Legal Practice

CURRENT RESEARCH AREAS

Supervision in research in the following areas is likely to be available to candidates undertaking research degrees:

- Administrative law
- Anti-discrimination law
- Commercial and finance law
- Company law
- Comparative law
- Constitutional law
- Consumer protection law
- Contract law
- Court policy and administration
- Criminal law
- Cross-cultural legal issues
- Dispute Resolution
- Environmental and planning law
- Family law and welfare policy
- Feminism and law
- Industrial relations law
- Information technology law
- Insurance law
- Intellectual property law
- International law
- Jurisprudence
- Law and literature
- Law relating to evidence, remedies and court procedure
- Law relating to the sea
- Natural resources law
- Property law
- Refugee law
- Regulation of economic activity
- Taxation law and practice
- Torts.

SCHEDULE OF PROGRAMS

HONOURS MASTERS OF ARTS BY COURSEWORK and HONOURS MASTERS OF COMMERCE BY COURSEWORK

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<td>Studies in Taxation</td>
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### MASTER OF LAWS (COURT MANAGEMENT) and MASTER OF COURT MANAGEMENT

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<td>LAW901</td>
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<tr>
<td>ACCY850</td>
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### MASTER OF LAWS (NATURAL RESOURCES LAW) and MASTER OF NATURAL RESOURCES LAW

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Candidates must complete the requirements for the Graduate Diploma in Natural Resources Law as well as the above subject.

### GRADUATE DIPLOMA IN LAW

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Candidates will also complete subjects to a value of at least 32 credit points selected from the Legal Studies Schedule set out in the Undergraduate Calendar.

### GRADUATE DIPLOMA IN LAW (COURT POLICY AND ADMINISTRATION)

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### GRADUATE DIPLOMA IN NATURAL RESOURCES LAW

**Compulsory subjects:**

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**Options - at least 4 chosen from those offered which may include:**

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GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT) and MASTER OF BUSINESS ADMINISTRATION

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GRADUATE DIPLOMA IN LEGAL PRACTICE

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COURSE REQUIREMENTS

Session of Offer
Subjects for the Graduate Diplomas and Masters courses will be offered, subject to availability of staff and Faculty resources, in a mode and session to be determined by the Dean. There may be special requirements in the courses leading to the Graduate Diploma in Law (Court Policy and Administration) and the Graduate Diploma in Natural Resources Law. Please consult the relevant sections below.

Seminars
Generally a three hour weekly seminar is held for each 800 or 900 level subject. Subjects for the Graduate Diploma in Law (Court Policy and Administration) and the Graduate Diploma in Natural Resources Law will be offered on a mixed mode basis with an intensive residential face to face teaching component. Students enrolled in the Graduate Diploma in Law may enrol in subjects at 100-300 level, which may require different patterns of attendance.

These subjects are listed in the Undergraduate Calendar.

Assessment
The assessment for 800 or 900 level subjects may be based on seminar contribution, essays and examinations. The subject program for each subject will specify the seminar times and the method of assessment.

Textbooks
There are usually no prescribed textbooks. Reading is required from a wide variety of references, including books and journal articles. Specific recommendations may be obtained from the Faculty of Law.

1. DOCTOR OF PHILOSOPHY
2. HONOURS MASTER OF LAWS BY RESEARCH
3. HONOURS MASTER OF ARTS BY RESEARCH
4. HONOURS MASTER OF COMMERCE BY RESEARCH

These courses are open to students with a degree with Honours Class II or equivalent (in the case of the Honours Master of Laws by Research, the first degree must be a degree in law). Students who do not possess such a degree may be permitted to demonstrate capacity for research by first completing LAW999 Special Research Paper in Law. The requirement of the degree is the satisfactory completion of a thesis to the value of 48 credit points (LAW998 Major Thesis) in accordance with Attachment C to the Course Rules.

5. HONOURS MASTER OF LAWS (NATURAL RESOURCES LAW)
6. HONOURS MASTER OF NATURAL RESOURCES LAW

These courses are designed for students to write a research dissertation in the area of Natural Resources Law and Policy, (in the case of the Honours Master of Laws (Natural Resources Law), the first degree must be a degree in Law). The requirement of the degree is the satisfactory completion of a thesis to the value of 48 credit points (LAW998 Major Thesis).

7. HONOURS MASTER OF LAWS (COURT MANAGEMENT)
8. HONOURS MASTER OF COURT MANAGEMENT

A thesis on any topic within an area of expertise of the Faculty of Law, including Court Policy and Administration. (In the case of the Honours Master of Laws (Court Management), the first degree must be a degree in Law). Attendance at the residential sessions conducted for the coursework degrees and Graduate Diploma in Law (Court Policy and Administration) is encouraged but completion of those course requirements is not required. The course comprises (LAW998 Major Thesis) 48 credit points.
9. HONOURS MASTER OF ARTS BY COURSEWORK

10. HONOURS MASTER OF COMMERCE BY COURSEWORK

These courses are open to persons who hold a degree including some studies in law or legal studies. The course requirements are: (a) where the candidate has completed a degree with Honours Class II, completion of law subjects at 900 level (other than LAW960, LAW961 and LAW969) to the value of 48 credit points; or (b) completion of law subjects at 900 level to the value of 96 credit points.

11. MASTER OF LAWS (COURT MANAGEMENT)

12. MASTER OF COURT MANAGEMENT

The Master of Laws (Court Management) is open to candidates who hold a recognised degree in Law, while the Master of Court Management is open to students with a recognised degree in any field, or the Graduate Diploma in Law (Court Policy and Administration) obtained at a satisfactory level. It is anticipated that such graduates would have had experience in court management or judicial/tribunal roles. Both Masters degrees are pursued through coursework and thesis over 3 years part-time. The course requires 5 weeks residential attendance on the Wollongong campus. All Masters degrees may be completed on a full-time or part-time basis.

Seminars
Each session begins with a residential workshop of 4-5 days during which lectures, workshops and discussions are provided on the subjects to be completed that session. The subjects are completed off campus through reading and assignments.

Assessment
Assessment is based on workshop contribution, essays and other exercises.

Textbooks
Most of the required reading is prepared by the Faculty and made available to the students during the residential at the beginning of each session.

13. MASTER OF LAWS (NATURAL RESOURCES LAW)

14. MASTER OF NATURAL RESOURCES LAW

These courses build on the course for the Graduate Diploma in Natural Resources Law (see below). The course leading to the degree of Master of Laws (Natural Resources Law) is open to candidates who hold a degree in law. Other candidates are eligible for the course leading to the degree of Master of Natural Resources Law. The courses allow further specialisation through the completion of a supervised research paper. To qualify for the degree, a candidate must complete the requirements for the Graduate Diploma in Natural Resources Law and a research paper valued at 24 credit points.

15. GRADUATE DIPLOMA IN LAW

The course is intended for those who wish to study law at postgraduate level without embarking on a law degree. Subject to pre-requisites, students may choose a course to suit their needs from the range offered by the Faculty. These subjects are listed in the Legal Studies Schedule in the Undergraduate Calendar.

That Faculty approve the inclusion of the following to the Calendar entry for the Graduate Diploma in Law effective from 1998:

entry into the program is competitive and the Faculty reserves the right to limit the number of places available;
entry into the Graduate Diploma in Law will only be in Autumn Session.

16. GRADUATE DIPLOMA IN LAW (COURT POLICY AND ADMINISTRATION)

The course is designed for those working in middle to senior management in courts and in government departments concerned with court policy, administration and funding. All subjects have been designed to meet the needs of Court Professionals. It is a part-time course extending over two years and requiring four weeks residential attendance on the Wollongong Campus, but may be completed on a full-time basis in one year. The course covers all aspects of court management and has been designed to enable students to address current and emerging issues in court policy and administration.

17. GRADUATE DIPLOMA IN NATURAL RESOURCES LAW

This course (available on both a full-time and part-time basis) is intended both for those who have no prior legal education but want a focused introduction to law through a study of natural resources law, and for those with a prior legal education who wish to specialise in the field of natural resources law. The course is made up of two compulsory subjects (Introduction to Law; Introduction to Natural Resources Law) and four subjects chosen from a range of options (offered on the basis of demand and teaching resources). Those who have studied law previously may be exempted from some compulsory subjects and allowed to study additional optional subjects.

Subjects will be offered on a mixed mode basis, combining intensive residential schools with directed reading and writing.

Assessment may be based on assignments, participation in class discussions, examinations and research essays.

18. GRADUATE DIPLOMA IN LEGAL PRACTICE

This accredited course will be delivered through independent and interactive learning, incorporating information technology, group workshops and seminars. Course activities will relate to work undertaken at the placement or employment site and computer technology will develop students' familiarity with the use of technology in a modern legal practice.
SUBJECT DESCRIPTIONS

LAW802 Processes of Dispute Resolution
Spring
Assessment: 3 take home assignments
Concepts of adjudication, arbitration, conciliation and mediation as dispute resolution procedures; the nature of the litigation process; relationship of arbitration, conciliation and mediation to litigation; involvement of courts in procedures other than litigation; evaluation of effectiveness of dispute resolution procedures. Taught in lectures and workshops during resident in July and through supervised research and analytical reading between July and November.

LAW804 Research into Current Issues in Judicial Administration
Double
Assessment: Research Report
Research project taken March-November to produce a report of 10,000 words on original research into judicial administration in a court or tribunal system familiar to the student. Possible topics: evaluations, needs analysis, feasibility studies in case management, or specific court programs, e.g. conferences, arbitration, roles of judicial and other staff, client services, legal aid, judicial independence. Project supervised by a member of the Faculty or someone suitably qualified outside the Faculty.

LAW805 Judicial Administration
Autumn
Assessment: 4 pieces of assessment.
The subject is the first of 4 court management subjects in the Graduate Diploma. It provides the foundation for the study of court management. The subject integrates principles of judicial administration with those of management, chosen for their particular relevance to the functions of the court manager.

LAW806 Workflow Management in the Courts
Spring
Assessment: 4 pieces of assessment
Principles and practical application of case management in reducing delay and providing efficient management in courts. Considers methods of establishing and evaluating case management programs. Examines principles and practical application of management information systems in courts.

LAW810 Law in Society
Autumn
8 cp
Remark: Not to count with LAW100 or LAW160 or LLB100.
Assessment: lawyer observation report, class participation, assignments, examination.
The textbooks/Co-ordinators for LAW810 are yet to be finalised and the Faculty will make the final details available to students. An overall perspective on the Australian legal system and its role in the Australian social order; an introduction to the sources of authority, the concept of judicial independence. The student shall propose a research project for approval by the Dean.

LAW811 Law of Contracts
Spring
8 cp
Remark: Not to count with LAW210 or LAW161 or LLB210.
Assessment: class participation, assignments, examinations.
The textbooks/Co-ordinators for LAW811 are yet to be finalised and the Faculty will make the final details available to students. The development of the modern law of contracts illustrating how scholars and lawyers have derived general principles of law from decisions about specific relationships; express and implied contracts; formation of contracts; the doctrine of privity of contract and statutory modifications; contractual terms and conditions; performance and breach; capacity to make contracts.

LAW901 Research in Court Management
Double
36 cp
Assessment: research paper.
Supervised original research over 4 sessions into a current issue in court policy or administration or judicial decision making. The research may be empirical or analytical and is to be submitted in the form of either: (a) a management-oriented report detailing methods, findings, and implications; or (b) a paper suitable for journal publication.

LAW902 Research Project A
Autumn/Spring/Summer
6 cp
Assessment: 8,000 word dissertation.
The student shall propose a research project for approval by the Dean.

LAW903 Research Project B
Autumn/Spring/Double
12 cp
Assessment: 12,000 word dissertation.
The student shall propose a research project for approval by the Dean.

LAW904 Research Project C
Autumn/Spring
8 cp
Assessment: 10,000 word dissertation.
The student shall propose a research project for approval by the Dean.

LAW905 Research Project D
Autumn/Spring/Double
8 cp
Assessment: 10,000 word dissertation.
The student shall propose a research project for approval by the Dean.

LAW950 Foreign Investment Law in the People's Republic of China
Session: to be advised
8 cp
An analysis of the laws and procedures regulating foreign investment in and trade with the PRC. This subject will examine those laws relating to: joint ventures and other forms of foreign investment; revenue and finance law including taxation, customs duties and exchange control, foreign trade including compensation trade, technology transfer and intellectual property, and dispute resolution.

LAW951 Taxation Policy and Practice
Session: to be advised
6 cp
Remark: Not to count with LAW352.
An examination of the revenue laws including income tax, sales tax, property tax, stamp duty and payroll tax.

LAW953 Studies in Taxation
Session: to be advised
6 cp
The statutory and common law foundations of the Federal Income Tax system. Common law concepts of income and capital and statutory modifications and interpretations of these concepts. Legal and accounting approaches to taxable income. Tax avoidance and evasion. An examination of tax policies, provisions and problems relating to special entities - and special provision areas, such as non-residence, foreign-controlled companies and royalty provisions. International aspects of Australian income tax including double tax agreements.

LAW955 Legal Studies for Professionals
Spring
6 cp
Assessment: Assignments, examination.
This subject is offered in a series of modules. The first module lasts for 5 weeks and is completed by all students. It introduces Australia's constitutional and legal structure and explores the nature and processes of law. The second and third modules are designed for postgraduate students and, currently, address areas of law relevant to health professionals and general management issues. Other modules may be developed to cater for the needs of particular courses.

LAW961 Selected Legal Topics in Management
Session: to be advised
6 cp
Selected legal topics in management. The selection will be made by the Dean, taking into account the expertise of academic staff, including visiting staff and the interest of students.
LAW963 Jurisprudence  
Session: to be advised  
6 cp  
A study of theories on the nature and purpose of law.

LAW964 Studies in Business Law  
Session: to be advised  
6 cp  
A detailed examination of the law relating to selected aspects of business organisation, including the law relating to the nature and formation of partnership, mergers and takeovers, insider trading and securities.

LAW965 Studies in Administrative Law  
Session: to be advised  
6 cp  
A detailed examination of the legal problems raised for individual citizens in the exercise of Governmental or other public powers. Particular topics include delegated legislation, ministerial responsibility, statutory corporations and administrative tribunals, crown proceedings; and the statutory and common law procedures which may be invoked to counter allegations of maladministration or illegality including the Administrative Appeals Tribunals, judicial review and ombudsmen.

LAW966 Studies in Industrial Law  
Session: to be advised  
6 cp  
A detailed examination of the law (including some comparative law) relating to selected aspects of employment relationships including industrial accidents, job security, registration and control of trade unions, picketing, the right to work and closed shop agreements, and conciliation and arbitration and collective bargaining.

LAW967 Studies in Trade Practices and Consumer Law  
Session: to be advised  
6 cp  
A detailed examination of restrictive practices and the development of the law to counter them including the role of the Commonwealth and New South Wales agencies which administer the relevant Acts.

LAW968 Issues in the Philosophy of Law  
Session: to be advised  
6 cp  
A critical examination of a selection of the following topics: (i) The nature and purpose of law; (ii) The logic of legal reasoning; (iii) Action, intention and will; (iv) The moral limits of the criminal law; (v) Contemporary moral issues of legal interest (eg informed consent, reproduction technology, euthanasia). Issues selected will be discussed in the context of particular areas of law.

LAW969 Occupational Health and Safety Law  
Session: to be advised  
6 cp  
The subject deals with the interpretation and application of the NSW OHS Act.

LAW987 Special Topic in Law - A  
Session: to be advised  
6 cp  
A special topic to be selected from any area of law.

LAW988 Special Topic in Law - B  
Session: to be advised  
6 cp  
A special topic to be selected from any area of commercial law. The selection will be made by the Sub-Dean taking into account the expertise of academic staff, including visiting staff, and the interest of students.

LAW993 Research Essay  
Session: to be advised  
12 cp  
Information may be obtained from the Sub-Dean regarding the research essay.

LAW998 Major Thesis  
Double  
48 cp  
Assessment: thesis.  
Content as arranged.

LAW999 Special Research Paper in Law  
Double  
48 cp  
Assessment: research essay.  
Content as arranged.

LAW910 Introduction to Law  
Autumn  
8 cp  
Introduction to the legal system; Commonwealth/State division of powers; introduction to the law of contract, tort, criminal and administrative law; the distinction between contractual and proprietary interests.

LAW911 Introduction to Natural Resources Law  
Autumn  
8 cp  
Ownership of natural resources; the implications of the Commonwealth/State division of legislative powers for natural resources regulation; the historical development and structure of natural resources law; overlaps between regulatory authorities; forward planning and development control; environmental impact assessment law; the law relating to pollution and waste disposal.

LAW912 International Law  
Autumn  
8 cp  
The nature of international law and how international law is made and enforced. The strengths and weaknesses of international law in regulating State behaviour. The domestic implementation of international law.

LAW913 Resources Decision-Making  
Autumn/Double  
8 cp  
Bureaucratic decision making processes; cost-benefit analysis; risk assessment; environmental impact assessment; public participation in decision-making processes; the role of the courts and adversarial methods of dispute resolution; public inquiries and other alternative forms of dispute resolution; scientific and legal forms of proof.

LAW914 Mining Law  
Spring  
8 cp  
Ownership of minerals; the distinction between mining and extractive industry; exploration and mining titles under the mining and coal mining legislation; the relationship between mining legislation and environmental planning and assessment legislation; industrial health and safety law and the mining industry.

LAW915 Commercial Aspects of Resources Development  
Spring  
8 cp  
Legal structures for resources projects (joint ventures, etc); financing resources projects (including investment regulation; taxation and stamp duty); legal aspects of resource marketing.

LAW916 Energy Law I  
Spring  
8 cp  
The law relating to oil and gas exploration, production and transportation, including onshore and offshore exploration and production titles, royalties, pipelines and oil pollution. The law relating to the mining and use of uranium.

LAW917 Energy Law II  
Spring  
8 cp  
The law relating to electricity generation and transmission, including monopolisation and privatisation, the relationship between transmission and supply authorities, pollution control, pricing arrangements and cogeneration. The law relating to renewable energy resources, including rights of access to wind and sun.

LAW918 Law of Land and Nature Conservation  
Spring  
8 cp  
The law relating to the use and conservation of native vegetation, including special conservation areas, forestry in State forests and on privately owned land, agricultural land clearing; the law relating to the protection and exploitation of native fauna, including habitat conservation, regulation of commercial exploitation and endangered species legislation. The law relating to land degradation.

LAW919 Water Resources Law  
Spring  
8 cp  
The law relating to the allocation of inland waters, including the licensing system and water rights, irrigation, domestic supply, regulation of activities on flood plains and extractive industries in watersources, catchment management and the control of diffuse pollution.
LAW920 Local Government and Natural Resources Law
Spring 8 cp
The development of local government in Australia. The law relating to the
constitution, functions and powers of local government in terms of the
ability of local government to control the development and
conservation of natural resources. Relations between local and
higher levels of Government. The law relating to environmental
planning and assessment by local government authorities.

LAW921 Marine Resources Law
Autumn/Spring 8 cp
The legal regulation of the resources of the sea under the United
instruments, in particular, living resources in the exclusive economic
zone (fisheries), non-living resources on the continental shelf
(hydrocarbons); high seas fishing, sea-bed mining and ocean thermal
energy. Analysis of domestic issues in the implementation of
the international regime, within a multiple use conceptual framework.

LAW922 International Maritime Environmental Law
Autumn/Spring 8 cp
The rules of international law dealing with the regulation of the marine
environment. The obligations of States under the United Nations
Convention on the Law of the Sea 1982, and other Conventions, to
protect and preserve the marine environment. Port State’s and flag
State’s responsibilities and powers of enforcement over vessels.
Pollution control in zones of sovereignty and sovereign rights;
pollution control on the high seas and in the Area. Marine biodiversity
protection.

LAW923 The Law of the Sea
Autumn/Spring 8 cp
The evolving law of the sea from an historical perspective. The 1982
United Nations Convention on the Law of the Sea (LOSC) and its
associated instruments. Maritime zones of jurisdiction and the
navigational regime under (LOSC). The major factors influencing the
development of the law of the sea; the various interests involved in the
law of the sea and how LOSC attempts to balance these interests.

LAW924 International Environmental Law
Autumn/Spring 8 cp
The relevant legal rules at the international level designed to protect
the global environment. The historical development of these rules and
the institutional framework within which they are made and enforced.
The weaknesses of international environmental law, focusing on
problems of domestic implementation.

LAW925 Biodiversity Conservation and the Law
Autumn/Spring 8 cp
Analysis of the United Nations Convention on Biological Diversity,
with particular reference to in-situ conservation of biological diversity
and access to genetic resources. The relationship between the
Biodiversity Convention and other international conventions concerned
with the conservation and sustainable use of nature. Strategies available for domestic implementation of the in-situ
conservation provisions. Ownership of genetic resources in relation to
royalty issues. State regulation of access to genetic resources. Indigenous peoples and biodiversity conservation.

LAW926 Comparative Environmental Law
Autumn/Spring 8 cp
A comparison of the varying legal instruments developed by countries
to implement environmental policy. The implementation of
international environmental obligations within domestic law,
emphasising the range of approaches adopted.

LAW928 Special Studies in Natural Resources Law I
Autumn/Spring 8 cp
A study in depth of a selected area of Natural Resources Law.

LAW929 Special Studies in Natural Resources Law II
Autumn/Spring 8 cp
A study in depth of a selected area of Natural Resources Law.

LAW930 Research Project in Natural Resources Law
Summer/Autumn/Spring 24 cp
Assessment: research essay.
Content as arranged.

LLB843 Professional Practice
Autumn/Spring 8 cp
An introductory program which will provide frameworks, foundations
and strategies for the other Practice Subjects of the course. The
subject contains four modules: Professional Responsibility and
Competent Practice; Problem Solving; Writing and Drafting;
Professional Experience Program. Students attend on-campus for the
first week of the Course, and thereafter meet the requirements of the
Professional Experience program in law-related employment or in a
placement arranged by the Practical Legal Training Unit. The
requirements of this subject are not completed until all components of
professional experience.

LLB844 Practice Management
Autumn/Spring 8 cp
This subject will introduce students to the statutory and professional
requirements in relation to clients’ Trust monies and securities, and to
principles of practice management including computerised accounting
and recording systems, costing, risk management and related
matters. The subject contains two inter-related modules: Trust and
Office Accounting; and Law Office Management.

LLB845 Conducting Litigation
Autumn/Spring 16 cp
The subject is organised in six modules involving a combination of
workshops, self-directed learning, assignments, Court visits, and
interactive legal files: Litigation Strategy Workshop; Civil Litigation
Practice; Civil Advocacy; Administrative Law Practice; Criminal Law
Practice and Advocacy; Family Law Practice and Advocacy.

LLB846 Commercial and Property Practice
Autumn/Spring 16 cp
The subject is delivered in 8 modules: Commercial Planning;
Revenue Implications; Real Property Transactions; Commercial
Contracts; Small Business Practice; Trusts, Wills and Estate
Planning; Probate and Estate Administration; Commercial Litigation. It
involves a combination of workshops, seminars, an auction report,
workbook exercises, assignments, and conduct of a legal file. The
subject provides an overview of particular aspects of commercial and
property transactions, and related matters which affect clients in
planning their business and personal affairs.
MEMBER UNITS

Department of Biological Sciences
Department of Chemistry
School of Geosciences comprising Geography and Geology
Environmental Science Unit

RESEARCH COURSES AVAILABLE

The Faculty offers Honours Master of Science and Doctor of Philosophy degrees by research. In addition, the Honours Master of Arts is offered in the Department of Geography.

POSTGRADUATE PROGRAMS

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FULL TIME STAFF

FACULTY OFFICE

Dean
Professor Robert K Norris, DIC Lond, BSc PhD DSc Syd FRACI CChem

Sub-Dean
To be appointed

Faculty Executive Officer............................................(02) 4221 3481
Patricia C Macquarie, BA (Hons)

Administrative Assistant............................................(02) 4221 3530
Christine M Peacock

Computer Resources Manager
Donna M Ashelford, BSc

Faculty Purchasing Officer
Pamela Manns

Professional Officer
John T Reay, BE

DEPARTMENT OF BIOLOGICAL SCIENCES

Departmental Head and Professor
Robert J Wheilan, BSc PhIn, PhD WA

Associate Professors
David J Ayre, BSc PhD WA
Mark Baker, BSc PhD Macq
Anthony J Hulbert, BSc PhD UNSW
Ross McC Lilley, BSc Adel, PhD PhIn
Edward J Steele, BSc PhD Adel

Senior Lecturers
William Buttemer, BA San Diego, PhD Mich
Andrew R Davis, BSc Auck, PhD Adel
Mark Walker, BSc PhD Q'td
Mark R Wilson, BSc PhD Syd

Lecturers
Kristine O French, BSc Syd, PhD Monash
Sharon R Robinson, BSc, Grad Cert Sci, PhD London
Ren Zhang BSc, MSc China, PhD ANU

Associated Lecturers
M Louise Rodgeron BSc Monash, PhD Macq
A Wendy Russell, BSc Q'td

Laboratory Manager
Julie A Gray, BSc (Hons)

Professional Officer
Julie-Ann Green, BSc (Hons)

Administrative Assistant
Janet Fragiaccomo

DEPARTMENT OF CHEMISTRY

Departmental Head and Professor of Organic Chemistry
John B Bremner, BSc WA, PhD ANU, DipChemPharmacol Edin

Professor of Chemistry
Leon Kane-Maguire, BSc PhD Q'td

Professorial Fellow
Gordon G Wallace, BSc PhD Deakin

Associate Professors
John Carver, BSc Adel, PhD ANU
John Ellis, BSc Syd, PhD UNSW
David W T Griffith, BSc PhD Monash
Stephen G Pyne, BSc Adel, PhD ANU
Roger J W Truscott, BSc PhD Melb

Senior Lecturers
Garry M Mockler, BSc PhD UNSW
William E Price, BSc PhD Lond
Margaret Shell, BSc PhD UNSW
Audrey H Wilson, BSc St And, Med PhD N'cle
Stephen Wilson, BSc Monash, PhD ANU

Lecturers
Joanne Jamie, BSc PhD Q'td
Paul A Keller, BSc PhD NSW
Trevor Lewis, BSc (Hons)
Stephen F Ralph, BSc PhD Q'td
Gerhard Swiegers, BSc Port Elizabeth, PhD Conn

Laboratory Manager
John Korth, BSc UNSW, MSc PhD

Professional Officers
Ellen Manning, BSc (Hons)
Frances A Martin, BSc (Hons)
Sandra Chapman, BSc (Hons)

Administrative Assistants
Mari Dwayne
Jenny Sherman

ENVIRONMENTAL SCIENCE UNIT

BHP Professor of Environmental Science
John Morrison, BSc PhD Belfast

Senior Lecturer
Ron West, MSc Syd PhD UNSW

Lecturer
Robert A L Wray, BCom GDipSci BSc PhD

Professional Officers
Marina McGlinn, BSc (Hons) N'cle (NSW)
Kerryn Stephens, BEnSc (Hons)

Honorary Senior Fellows
Cher Song Teo, BSc PhD Q'd
Peter Riley, MSc PhD

Honorary Principal Fellows
Chalapalan Kajiwun, BSc MSc UPNG, PhD Staford
Dick Watling, BSc PhD Bristol

Honorary Professional Fellows
Gary Smith, MSc PhD Syd
Ian Hamilton, BSc PhD Melb

Administrative Assistant
Sandra Quinn, BA

SCHOOL OF GEOSCIENCES

Professor and Head of School
Allan R Chivas, BSc PhD Syd

Associate Professors
Edward A Bryant, MA McM, PhD Macq
Adrian C Hutton, BA NE, BSc PhD
Brian G Jones, MSc Auck, PhD ANU
Gerald C Nanson, BSc Otago, MSc Alta, PhD S Fraser
Colin D Woodroffe, BA MA PhD Camb

Senior Lecturers
Laurie Brown, BSc, MSc, PhD Cant
Paul F Carr, BSc Q'td, PhD
Bryan E Chenhall, BSc PhD Syd
Christopher L Fergusson, BA Mscq, PhD NE
Lesley M Head, BA PhD Monash
Colin V Murray-Wallace, BAHons PhD Adel
Antoinette L O'Neil, BAppSc CCAE, MApplSc PhD UNSW
Gordon R Waitt, MA PhD Edin
Ann R M Young, BSc Syd, MSc PhD

Lecturers
John R Formby, BEcon Adel, DipMgtStud Sussex, PhD ANU
Leonie E A Jones, BSc Qld, PhD ANU
John W Pemberton, BSc PhD

Research Fellow
David Price, MAIP, HNDappPhys UK

Professional Officers
Aivars Depers, BSc (Hons) Adel
John Marthick, BEnvSc (Hons) MSc (Hons)
Sue Wang, BSc Qingdao China

Administrative Assistant
Jacqueline Shaw

Emeritus Professor
Murray G A Wilson, MA NZ, MA Wits, PhD Melb

Honorary Principal Fellow
Anthony J Wright, BSc, PhD Melb
Iraj Yassini, BSc Tehran, D-es-S Bordeaux

Honorary Senior Fellow
Hendrik Heijnis, BSc, PhD Amsterdam

Honorary Fellow
Katherine Harle, BA (Hons) Monash

Honorary Professor
Howard K Womer, CBE, DSc HonDeing Melb, HonDSc N’c/e (NSW), HonDSc, ABSM, CEng, FAAS, FTSE, MAusIMM, FIEAust,
FRACI, FAIE, FIM, FIMM, MAIME

FACULTY VISITING COMMITTEE

Professor Neil S Willetts, (Chairperson) Visiting Professor in
Biological Sciences, Sydney University
Dr Stephen Anderson, Managing Director, Southern Pathology
Professor Athel Beckwith, Research School of Chemistry ANU
Dr Ron Broadfoot, Principal, Heathcote High School
Professor Ron Ekers, Director of CSIRO’s Australia Telescope
National Facility, Epping
Dr John Finnigan, Director, CSIRO Centre for Environment
Mechanics, Canberra
Mr Pat Hannah, Director, Senior Geologist, ECS International Pty Ltd
Dr Roslyn Muston, BSc (Hons) Syd, PhD, Managing Director, Quality
Environmental Management Pty Ltd
Dr Jim O’Neill, Manager Research, Steel Coatings Programs, BHP
Research, Port Kembla
Professor Diana M Temple, Honorary Associate, Department of
Pharmacology, The University of Sydney
Dr Guy K White, Honorary Fellow, CSIRO Division of Applied
Physics
Dr Neil Williams, Director, Australian Geological Survey
Organisation, Canberra
Mr Joe Woodward, Regional Director, Environment Protection
Authority, Wollongong
COURSES OFFERED

The following postgraduate degrees and diplomas are available:

1. Doctor of Philosophy
2. Honours Master of Science by Research
3. Honours Master of Science in Biotechnology
4. Master of Science (Biotechnology)
5. Graduate Diploma in Science (Biological Sciences)

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Doctor of Philosophy and the Honours Master of Science:

Animal physiology
- Environmental physiology of higher vertebrates
- Thyroid and adrenal function in higher vertebrates
- Ecological energetics
- Evolution of endothermy
- Physiological development in birds and marsupials
- Dietary fats and their effects on body function

Plant biochemistry
- Photosynthesis: studies on the carbon fixing enzyme rubisco, and its activation
- Turgor-volume regulation: regulation of glycerol synthesis by osmotic pressure in the salinity-resistant alga Dunaliella
- DNA amplification and analysis: application of molecular biology techniques to species identification in algae

Cell and cancer biology
- Tissue injury during inflammation
- Cellular responses to oxidative stress
- Monocyte migration into inflammatory foci
- Cancer invasion and metastasis
- Cell-surface and receptor-bound proteases
- Biological roles of plasminogen activator inhibitors
- Mechanisms of chemotherapeutic-induced apoptosis
- Mechanisms of lipid transport at the cell membrane
- Cell surface events in apoptosis

Immunobiology and vaccine development
- Mechanism of somatic hypermutation in antibody variable region genes
- Mechanisms of rapid 'directional' molecular evolution
- Mechanism of acquired paternal transmission in mice
- Mechanisms of adjuvant action
- Development of acellular and live oral recombinant vaccines against the whooping cough bacterium, Bordetella pertussis
- Molecular and genetic analysis of Bordetella bronchiseptica
- Development of recombinant oral and intranasal vaccine delivery systems for the stimulation of immunity against the porcine pathogens Erysipelothrix rhusiopathiae and Mycoplasma hyopneumoniae
- Development of techniques to enhance the sensitivity of immunoassays

Ecology and population genetics
- Mating systems and population genetics of native plants
- Pollination systems of native plants
- Responses of plant and animal populations to bushfires
- Impact of herbivores on plant communities
- Plant succession and reclamation of disturbed land
- Seed and fruit dispersal by animals
- Avian ecology
- Inveretebrate biodiversity
- Conservation biology

Marine ecology and genetics
- Evolutionary consequences of varying patterns of reproduction and dispersal, self-recognition and aggressive interactions in marine invertebrates
- Conservation of marine ecosystems
- Chemical ecology: the relative importance of natural products as mediators of interactions between organisms, particularly compounds that play a role in preventing fouling of marine invertebrates.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in BIOL999 (Major Thesis) and undertake a research project in one of the areas listed above. Enrolment may be full-time or part-time. Intending students should first contact the Postgraduate Coordinator in the Department of Biological Sciences. (Assoc. Prof. R M Lilley).
2. HONOURS MASTER OF SCIENCE

The objective of this degree is to provide a grounding in experimental biological research. Graduates entering the degree who hold a Bachelor degree with Honours at a standard of Class II, Division 2 or higher are required to complete the 48 credit point BIOL999 Major Thesis.

Students entering the degree with qualifications below Honours Class II, Division 2 must complete subjects which aggregate to not less than 96 credit points. These will consist of at least 48 credit points including, normally, BIOL910 Advanced Topics in Biology A and BIOL911 Advanced Topics in Biology B, plus at least 16 credit points from 300-level Biology subjects specified by the Postgraduate Coordinator. The remaining 48 credit points will be obtained by completing the subject BIOL999 Major Thesis.

3. HONOURS MASTER OF SCIENCE (BIOTECHNOLOGY)

This program will cover the latest theory and procedures in Cellular and Molecular Biology and their application to Biotechnology. A specific research project in some aspect of Biotechnology is required. This degree is recommended for those students who wish to follow a career in research.

Entry into the course normally requires a Bachelor degree with Honours at a standard of Class II, Division 2 or above, in an appropriate discipline, or a Master of Science (Biotechnology) completed at an appropriate standard. For further information, consult research interests of particular staff members and contact the Co-ordinator of Biotechnology.

4. MASTER OF SCIENCE (BIOTECHNOLOGY)

The Master of Science (Biotechnology) will produce graduates with up-to-date knowledge and technological expertise in specific areas of Cell and Molecular Biology, which are the basis for modern biotechnological research and development. Coursework to a value of at least 48 credit points is required.

Entry into the course normally requires a Bachelor's degree with Honours at a standard of Class II, Division 2 or above in an appropriate discipline, or an appropriate Graduate Diploma in Science (Biological Sciences) completed at a satisfactory standard.

Co-ordinator: Dr Mark Wilson

5. GRADUATE DIPLOMA IN SCIENCE (BIOLOGICAL SCIENCES)

The purpose of the Graduate Diploma (Biological Sciences) is to provide graduates who have insufficient background in parts of Biological Sciences with the skills and knowledge necessary to enable them to proceed with further study.

Successful completion of appropriate subjects with a value of at least 48 credit points is required, the subjects being chosen from the undergraduate schedules of subjects as set out in the Undergraduate Calendar. At least 24 credit points must be from 300-level or 400-level Biology subjects. The selection of subjects will be approved by the Postgraduate Coordinator. Approved subjects which lead to the Master of Science (Biotechnology) course are listed below.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAMS IN BIOTECHNOLOGY

leading to the Master of Science and the Honours Master of Science.

(i) Graduate Diploma in Science (Biological Sciences)*

Leading to the MSc (Biotechnology)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>BIOL320</td>
<td>Molecular Cell Biology</td>
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<tr>
<td>BIOL321</td>
<td>Cellular and Molecular Immunology</td>
<td>8</td>
</tr>
<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
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<tr>
<td>STAT252</td>
<td>Statistics for the Natural Sciences</td>
<td>6</td>
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<tr>
<td>BIOL303</td>
<td>Biotechnology: Applied Molecular and Cell Biology</td>
<td>8</td>
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<tr>
<td>MGMT308</td>
<td>Introduction to Management for Professionals A</td>
<td>6</td>
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</tbody>
</table>

(ii) Master of Science (Biotechnology)

<table>
<thead>
<tr>
<th>Autumn Session</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>BIOL920 Biotechnology Cells, Proteins and Antibodies</td>
<td>12</td>
</tr>
<tr>
<td>BIOL921 Biotechnology Nucleic Acids</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Session</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL910 Advanced Topics in Biology A: Literature Research Project</td>
<td>16</td>
</tr>
<tr>
<td>BIOL918 Diagnostic Biotechnology</td>
<td>8</td>
</tr>
</tbody>
</table>

(iii) Honours Master of Science (Biotechnology)

The Honours Master of Science (Biotechnology) is a research-based degree, examined principally by thesis. For further information, contact the Co-ordinator of Biotechnology.

* Other appropriate subjects from the graduate or 300-level schedule may be taken with the permission of the Departmental Head.
### SUBJECT DESCRIPTIONS

**BIOL910 Advanced Topics in Biology A: Literature Research Project**  
*Autumn/Spring* 16 cp  
-Assessment: substantial literature review report and seminar.  
Under the supervision of staff nominated by the Postgraduate Coordinator, the student will survey the biological literature and present a written report and a seminar on a topic chosen by the supervisory staff.

**BIOL911 Advanced Topics in Biology B: Laboratory Research Project**  
*Autumn/Spring* 16 cp  
-Assessment: substantial project report and seminar.  
Under the supervision of staff nominated by the Postgraduate Coordinator, the student will undertake a laboratory or field-based project and present a written report and a seminar on a topic chosen by the supervising staff.

**BIOL916 Plant and Agricultural Biotechnology**  
*Spring* 6 cp  
Contact hrs: 20 hrs of lectures and tutorials plus practical work.  
Assessment: seminars, project, examination.  
-Plant tissue culture - protoplast induction and regeneration, callus culture, suspension culture. Clonal propagation. Molecular biology of pathogen-plant interactions; microbial-plant symbiotic interactions; biological control of plant pathogens; detection of pathogens.  
The subject will provide the scientific background behind the listed topics, relevant practical knowledge and an understanding of their applications in developed and developing countries.

**BIOL917 Aquatic and Environmental Biotechnology**  
*Spring* 6 cp  
Contact hrs: 20 hrs of lectures and tutorials plus practical work.  
Assessment: seminars, project, examination.  
-Aquatic microbiology; Screening for useful chemicals from aquatic organisms; Biological degradation of aquatic pollutants including hydrocarbons and chlorinated compounds; Biological treatment processes to remove heavy metals from effluents and ores; Biodegradation and biodeterioration of organic and inorganic compounds including waste treatment.  
The subject will provide the scientific background behind the listed topics, relevant practical knowledge and an understanding of their applications in developed and developing countries.

**BIOL918 Diagnostic Biotechnology**  
*Spring* 8 cp  
Contact hrs: 24 hrs of lectures and tutorials plus practical work.  
Assessment: seminars, project, examination.  
-Production of probes based on DNA and antibody technology for the diagnosis of diseases of humans, plants and animals.  
Utilisation of such probes to detect specific pathogens in tissue samples and environmental samples. Collection and preservation of samples. DNA restriction analysis, oligonucleotide mapping and antigen detection in identifying micro-organisms. Basic epidemiology. ELISA and immuno-diagnosis.  
The subject will provide the scientific background behind these topics, relevant practical knowledge and an understanding of their applications in developed and developing countries.

**BIOL920 Biotechnology: Cells, Proteins and Antibodies**  
*Autumn* 12 cp  
Contact hrs: 42 hr lecture/tutorials plus practical work.  
Assessment: major essay, quiz, tutorial papers, poster, seminar, written examination.  

**BIOL921 Biotechnology: Nucleic Acids**  
*Autumn* 12 cp  
Contact hrs: 42 hr lecture/tutorials plus practical work.  
Assessment: major essay, quiz, tutorial paper report, poster, seminar, written examination.  

**BIOL991 Biotechnology Research Project**  
*Autumn/Spring/Summer* 24 cp  
Assessment: written dissertation, seminar.  
The student will undertake a research project on a topic in Biotechnology and present a research report and seminar on a topic chosen by the supervising staff. The research can be undertaken in collaboration with industry or another recognised institution.

**BIOL999 Major Thesis**  
*Autumn/Spring* 48 cp  
Assessment: major thesis.  
The thesis research to be chosen from the current research areas within the Department listed above. Topic to be arranged in consultation with relevant staff and approved by Department Head and Graduate Faculty.
COURSES OFFERED
The following postgraduate degrees and diploma are available:

1. Doctor of Philosophy
2. Honours Master of Science by Research
3. Master of Science
4. Graduate Diploma in Science

POSTGRADUATE PROGRAM

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Science degree by research and the Doctor of Philosophy degree:

Atmospheric trace gas analysis using Fourier transform infrared spectroscopy
Atmospheric reaction mechanisms
Photochemistry caused by ozone depletion
Environmental chemistry, especially the development of new methods for the analysis and treatment of industrial wastes and trace toxins
Studies of heavy metal levels in the environment
Electroanalytical chemistry, especially the development of chemically modified electrodes and electrochemical detectors
Application of electrochemically-produced polymers in corrosion protection, biotechnology, catalysis, and as analytical sensors or actuators
Dynamic processes in fluids and porous media
Kinetics of extraction processes involved in the food and beverage industries
Structural studies of organic, organometallic, and inorganic compounds using EI, CI and FAB mass spectrometry
Model compounds of metalloproteins
Co-ordination chemistry of ruthenium
Asymmetric synthesis using organometallic complexes and chiral polymers
Metal-protein and metal-DNA interactions, and model studies
New methods for organic synthesis and asymmetric synthesis
Chemistry of bio-active natural products
Medicinal chemistry involving the design, synthesis and evaluation of new compounds with specific biological activity
Synthesis and properties of new heterocyclic molecules
The mechanism of senile cataract formation in humans
Protein modification by endogenous chemicals
Structure/function of proteins and peptides using high-field NMR spectroscopy and other analytical techniques
Studies on the mass spectrometry of biological molecules such as peptides and nucleic acids
New drug delivery systems
Inorganic stereo- and supramolecular chemistry.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN CHEMISTRY

leading to the Master of Science.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM910</td>
<td>Advanced Topics in Chemistry</td>
<td>16</td>
</tr>
<tr>
<td>CHEM915</td>
<td>Advanced Chemistry Laboratory Project</td>
<td>16</td>
</tr>
<tr>
<td>CHEM918</td>
<td>Chemistry Report</td>
<td>16</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

GRADUATE DIPLOMA IN SCIENCE

Subjects to the value of 48 credit points chosen from the following list in consultation with the Head of the Department of Chemistry. The Departmental Head may also nominate other subject(s) deemed appropriate.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM215</td>
<td>Food Chemistry</td>
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<tr>
<td>CHEM311</td>
<td>Inorganic Chemistry III</td>
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<tr>
<td>CHEM314</td>
<td>Instrumental Analysis</td>
<td>8</td>
</tr>
<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM321</td>
<td>Organic Synthesis and Reactivity</td>
<td>8</td>
</tr>
<tr>
<td>CHEM364</td>
<td>Probing Molecular Structure</td>
<td>8</td>
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<tr>
<td>CHEM327</td>
<td>Environmental Chemistry</td>
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<td>CHEM340</td>
<td>Chemistry Laboratory Project</td>
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<tr>
<td>CHEM910</td>
<td>Advanced Topics in Chemistry</td>
<td>16</td>
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<tr>
<td>CHEM911</td>
<td>Selected Topics in Chemistry</td>
<td>6</td>
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<tr>
<td>CHEM918</td>
<td>Chemistry Report</td>
<td>16</td>
</tr>
</tbody>
</table>
COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in CHEM920 and undertake a research project in one of the current research areas listed above, or in other areas on approval by the Head of Department.

2. HONOURS MASTER OF SCIENCE

Introduction and Objectives
There have been many rapid advances in Chemistry, particularly in chemical instrumentation, over the past decade. Many techniques and applications are now in common use which did not even exist five years ago. There is therefore a need for Chemistry graduates, especially those of some standing, to become aware of, and proficient in, at least some of these new developments. The proposed courses are intended to provide for the specific needs and interests of applicants from both industry and education, as well as for students wishing to obtain experience in a modern research program.

Structure of the Course
The course will be made up of subjects selected from those described below, in accordance with the Honours Masters Degree Rules.

There are two paths to the degree:
1. by research only, for students entering with a degree of Honours Class II, Division 2 standard or above. They will do the 48 credit point CHEM920;
2. by a combination of research and coursework, for students entering with a degree below Honours Class II, Division 2 standard. They will do a research project (CHEM820) plus the three following subjects: CHEM910 Advanced Topics in Chemistry, CHEM915 Advanced Chemistry Laboratory Project, and CHEM918 Chemistry Report, described below. That is, they will take subjects to a value of 96 credit points.

Entry to the Course
Entry is subject to the approval of the Board of Research and Postgraduate Studies on the advice of the Departmental Head.

Selection of Subjects
Students must consult the Departmental Head for approval of their proposed choice of subjects.

Pre-requisites
The minimum pre-requisite for all subjects is that the student must have graduated with at least 24 credit points of 300-level Chemistry subjects.

3. MASTER OF SCIENCE

Introduction and Objectives
The objectives of this course are similar to those of the Honours Master of Science above. It is designed for applicants from industry and education and for students who wish to proceed beyond the 3 year pass degree but for whom the research component of the Honours degree is inappropriate.

Structure
This is a 48 credit point coursework degree in which students do the three subjects, CHEM910, CHEM915, CHEM918, in accordance with the Pass Master Degree Rules.

Entry to the Course
Students must consult the Departmental Head for approval of overall entry.

Pre-requisites
The minimum pre-requisite is that the student must have graduated with at least 24 credit points of 300-level Chemistry subjects.

4. GRADUATE DIPLOMA IN SCIENCE

Introduction and Objectives
This one year Graduate Diploma is designed principally as a Masters Qualifying course for students who have an inadequate preparation for direct entry into our MSc degree programs. It will be found useful by international students and by students either without a full major in Chemistry at undergraduate level or who completed their first degree some years ago.

Entry to the Course
Students must consult with the Departmental Head for approval of overall entry. The particular combination of subjects to be taken by each student will be decided after discussion with the Head and will take into account the student's specific background and needs.

SUBJECT DESCRIPTIONS

CHEM910 Advanced Topics in Chemistry
Double (A) 16 cp
Contact Hours: 56 hrs lectures, 56 hrs tutorials.
Compulsory for all students undertaking an MSc in Chemistry by coursework, except for students who have passed CHEM411 or completed the subject in a Graduate Diploma in Science (Chemistry). Not to count with CHEM411 or CHEM911.
Assessment: Written examinations 50%; written assignments 50%. Students will choose four advanced lecture topics from a range offered covering the full spectrum of the discipline and the Department's research interests. In addition, they will undertake study of four topics, chosen in consultation with the MSc program coordinator (Dr. W. Price), to broaden their general chemical knowledge. This will be carried out via directed reading and individual tutorials and assessed by written work.

CHEM911 Selected Topics in Chemistry
Autumn/Spring 8 cp
Contact Hours: 28 hrs lectures, 28 hrs tutorials.
Assessment: written examination 90%, essay 10%.
Four topics (each 7 lectures/7 tutorials) chosen from: Organic and inorganic Geochemistry and its effects on the Environment; Synthesis of biologically important compounds; Plant secondary metabolism; The Bioinorganic Chemistry of Iron; Inorganic Reaction Mechanisms; Catalysis with Organometalic Compounds; Physical Mass Spectrometry; Analysis of Atmospheric Particles; Computers in Chemistry; Gas Lasers; Advanced NMR Techniques; and other topics added as required.
CHEM915 Advanced Chemistry Laboratory Project  
Autumn/Spring  
16 cp  
Contact Hours: 168 hrs laboratory work.  
Assessment: substantial report 90% and seminar 10%.  
Under the supervision of staff appointed by the Departmental Head the student will undertake a laboratory project and present a written report and a seminar on a topic chosen by the supervising staff.

CHEM918 Chemistry Report  
Double (A)  
16 cp  
Contact Hours: 112 hrs tutorials.  
Assessment: substantial report 90% and seminar 10%.  
Under the supervision of staff appointed by the Departmental Head students will survey the chemical literature and prepare a report on a topic chosen by the supervising staff.

CHEM920 Chemistry Research Project  
48 cp  
Assessment: major thesis.  
Topic to be arranged in consultation with the Departmental Head and approved by the Board of Research and Postgraduate Studies.
ENVIRONMENTAL SCIENCE

COURSES OFFERED

The following postgraduate degrees are available:

1. Doctor of Philosophy
2. Honours Master of Environmental Science by Research and Coursework
3. Honours Master of Environmental Science by Research
4. Master of Environmental Science by Coursework

POSTGRADUATE PROGRAM

Environmental Science

CURRENT RESEARCH AREAS

Current research covers a number of environmental areas, including the following:

- Waste management technology and strategies
- Seagrass biology, fish biology and natural resource policy
- Responses of plant and animal populations to bushfires
- Plant succession and recolonisation of disturbed land
- Conservation genetics of native plants and animals
- Marine ecology and genetics
- Effects of pollution on aquatic organisms
- Atmospheric reaction mechanisms
- Environmental chemistry, especially the development of new methods for the analysis and treatment of industrial wastes and trace toxins
- Studies of heavy metals levels in the Illawarra region and investigations of the mechanism of toxic action
- Coastal marine pollution
- Soil genesis and management
- Integrated estuarine and watershed management studies
- Coastal and fluvial geomorphology
- Environmental prehistory
- Environmental impact
- Remote sensing applications
- Biogeography
- Palynology
- Economic and environmental geology
- Sedimentology of terrestrial and shallow marine sequences

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN ENVIRONMENTAL SCIENCE

leading to the Honours Master of Environmental Science by coursework and research, Honours Master of Environmental Science by research, Master of Environmental Science by coursework.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>(i)</td>
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<tr>
<td>ENV930</td>
<td>Thesis</td>
<td>24</td>
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<td>ENV920</td>
<td>The Scientific Basis of Environmental Management</td>
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<tr>
<td>ENV921</td>
<td>Environmental Planning</td>
<td>8</td>
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<tr>
<td>STS929</td>
<td>Studies in Resource and Environmental Policy</td>
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<td>Additional subjects for Category (b) candidates only:</td>
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<td>ENV910</td>
<td>Directed Studies in Pollution Chemistry</td>
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<tr>
<td>ENV911</td>
<td>Directed Studies in Ecology</td>
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<tr>
<td>ENV912</td>
<td>Directed Studies in Land Resources</td>
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<tr>
<td>ENV913</td>
<td>Directed Studies in Earth Sciences</td>
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<td>(ii)</td>
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<tr>
<td>ENV940</td>
<td>Environmental Science Research Thesis</td>
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<td>ENV920</td>
<td>Scientific Basis of Environmental Management</td>
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(ii) Master of Environmental Science by coursework

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Subjects</td>
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<tr>
<td>ENVI920</td>
<td>The Scientific Basis of Environmental Management</td>
<td>8</td>
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<tr>
<td>ENVI921</td>
<td>Environmental Planning</td>
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<td></td>
<td>Electives</td>
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<td>ENVI913</td>
<td>Directed Studies in Earth Sciences</td>
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<td>ENVI919</td>
<td>Directed Studies in Environmental Science</td>
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<tr>
<td>GEOS941</td>
<td>Coastal Environments</td>
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<tr>
<td>GEOS942</td>
<td>Geomorphology of Rivers</td>
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<td>GEOS946</td>
<td>Geographic Information Systems</td>
<td>8</td>
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<td>GEOS948</td>
<td>Quaternary Studies</td>
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<tr>
<td>GEOS951</td>
<td>Environmental Policy and Management</td>
<td>8</td>
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<tr>
<td>STS929</td>
<td>Studies in Resource and Environmental Policy</td>
<td>8</td>
</tr>
</tbody>
</table>

Other relevant subjects can be included in the selection available to students but must have the approval of the Head. This includes relevant 900 level subjects from the Faculties of Arts, Commerce, Engineering and Science. For further details, see Course Requirements below.

**COURSE REQUIREMENTS**

1. **DOCTOR OF PHILOSOPHY**

Environmental research leading to a PhD is open to students with an honours degree at a minimum standard of Class II, Division 2 in a relevant discipline. Candidates for this degree enrol in ENVI999.

2. **HONOURS MASTER OF ENVIRONMENTAL SCIENCE BY RESEARCH AND COURSEWORK**

This degree combines research and coursework to provide:

(a) continuing education for Bachelor of Environmental Science graduates;

(b) Environmental Science education for Science or Engineering graduates or professional employees in the environmental science area, with no undergraduate background in environmental science.

Candidates in category (a) with a strong educational background in environmental science are required to complete 48 credit points comprising a 24 credit point thesis and 24 credit points of coursework which consists of three special single session tutorial/seminar subjects on the evaluation and management of a range of environmental problems.

Candidates in category (b) with little formal education in environmental science would be required to complete 96 credit points, i.e. 48 credit points of core subjects and research plus a further 48 credit points of coursework which would be selected with the approval of the Dean of Science from the additional subjects for Category (b) students listed above.

Candidates would normally be advised to select the subjects in which they do not have previous qualifications or experience in order to broaden their understanding of environmental issues.

The course structure facilitates the tailoring of coursework to suit the individual requirements of candidates with differing undergraduate qualifications and employment experience.

**Entry Requirements**

Bachelor degree in Science or Engineering, or equivalent tertiary qualifications and/or professional experience. Students must consult with the Coordinator of the Environmental Science Unit for approval of overall entry.

3. **HONOURS MASTER OF ENVIRONMENTAL SCIENCE BY RESEARCH**

This Program involves a major project in one of the many research areas of environmental science available in the Faculty. The research project should provide information for improved understanding of how ecosystems work, for solving environmental problems of immediate concern and to assist policy makers in developing new strategies and legislation for environmental management. This degree provides the opportunity for students to contribute to this work by undertaking a major research project in one of the areas of environmental science within the Faculty. One year full time or part time equivalent.

**Entry Requirements**

Honours Bachelor degree in Environmental Science, Science, Applied Science or Engineering at Class II, Division 2 or higher (or equivalent qualifications and/or professional experience). Entry must be approved by the Head of Environmental Science AND the Head of Unit in which the research component will be completed.

4. **MASTER OF ENVIRONMENTAL SCIENCE BY COURSEWORK**

This program is by coursework only. It is designed for applicants who wish to extend their knowledge of Science relating to the environment but who do not anticipate a career in research. This is a one year full time course.
300 Faculty of Science

Entry Requirements

Bachelor degree in Environmental Science, Science, Applied Science, Agriculture, Forestry, Veterinary Science or Engineering (or equivalent qualifications and/or professional experience). Students must consult with the Coordinator of the Environmental Science Unit for approval of overall entry.

SUBJECT DESCRIPTIONS

ENVI910 Directed Studies in Pollution Chemistry
Spring 12 cp
Contact hrs: 112 hrs comprising 56 hrs lectures/tutorials, 28 hrs practical, 28 hrs case study.
Assessment: final examination, practicals, essay/case study report, seminar.
The chemistry of water and air pollution. Toxins in the environment. Sources, sinks and transport processes, methods for quantitative measurement and control.

ENVI911 Directed Studies in Ecology
Autumn/Double 12 cp
Contact hrs: 26 hrs lectures, 13 hrs tutorials, and an individual, supervised case-study project.
Assessment: (i) continuous assessment and final examinations for coursework (autumn session); (ii) major case study report and seminar (can be done in either session).
Management and conservation biology.

ENVI912 Directed Studies in Land Resources
Double 12 cp
Contact hrs: 56 hrs lectures, 56 hrs seminars/laboratory and field work.
Assessment: examination, two essays, two research projects.
This subject will examine coastal, river, water and soil managements focussing on human induced changes to these natural systems. Emphasis will be given to geomorphological processes, remote sensing of land and biological resources.

ENVI913 Directed Studies in Earth Sciences
Double 12 cp
Contact hrs: up to 42 hrs lectures, seminars, up to 4 days field work, at least 40 hrs case study project.
Assessment: one major project or reports, seminars, final examination.
Topics include the relationship of mining operations to communities; composition of mine waters, dusts and stack emissions; reclamation of mine sites; effects of mine subsidence; the composition, uses and disposal of waste residues; environmental effects of pollution, erosion and deposition; environmental impact studies.

ENVI919 Directed Studies in Environmental Science
Autumn/Spring/Double 12 cp
Assessment: Major written report based on work completed.
In this subject students will undertake either a major literature review or carry out a practical study on a problem of current environmental interest. The work will normally be related to one of the ongoing activities of the Unit, giving the student the opportunity to become well acquainted with a particular aspect of environmental science. International students will be encouraged to undertake activities with significant relevance to their home countries.

ENVI920 The Scientific Basis of Environmental Management
Spring 8 cp
Contact hrs: 28 hrs lectures, 28 hrs seminar, up to four days fieldwork.
Assessment: final examination, 2 essays, 1 research report.
This course gives a comprehensive overview, with case studies, of the scientific basis of environmental management by adopting a multi-disciplinary approach to the scientific understanding of how major ecosystems work. The science of aquatic, alpine, forest, grassland and semi-arid environments, along with hazardous waste (including radioactive) management will be amongst those discussed. Students will complete a team project that develops interdisciplinary skills in addressing appropriate management strategies.

ENVI921 Environmental Planning
Autumn 8 cp
Contact hrs: 28 hrs lectures, 28 hrs seminar, up to four days field work.
Assessment: final examination, 2 essays, 1 research report.
This course presents a comprehensive overview of environmental planning in government and industry. Students are introduced to the basic principles followed by presentations from staff from a wide range of organisations involved in environmental planning. The mechanisms, difficulties and benefits of current planning activities in Australia are explained. While the emphasis is on the Australian situation, reference to activities in other countries and the global situation of environmental planning is included.

STS929 Studies in Resource and Environmental Policy
Autumn 8 cp
Contact hrs: 3 hrs lecture/seminars per week.
Assessment: 1 major research essay, 1 minor essay, seminar performance, plus class exercises.
This subject examines the social, economic and political processes through which environmental policy is developed. Case studies will be used to understand environmental impacts of technological development. Theoretical perspectives may include the politics and sociology of scientific controversy, global, national and regional developments in environmental regulation, theories of state regulation and intervention, and the choice and negotiation of different environmental strategies.

ENVI930 Thesis
Autumn/Spring/Double 24 cp
Assessment: written dissertation.
A research topic in an area of environmental science will be selected by each candidate after consultation with the degree co-ordinator. The thesis will be supervised by staff from the appropriate department or departments.

ENVI940 Environmental Science Research Thesis
Double 40 cp
Assessment: written dissertation and seminar presentation.
A research topic in an area of environmental science will be selected by each candidate after consultation with the degree co-ordinator. The thesis will be supervised by staff from the appropriate department or departments.

ENVI999 Major Thesis
48 cp
Assessment: major thesis.
The major thesis takes the form of a supervised research project on a topic approved by the Professor of Environmental Science.
COURSES OFFERED

The following postgraduate degrees and diploma are available:

1. Doctor of Philosophy
2. Honours Master of Science by Research or Coursework
3. Honours Master of Arts by Research or Coursework
4. Master of Science
5. Master of Arts
6. Graduate Diploma in Science

POSTGRADUATE PROGRAMS

Physical Geography and Environments
Human Geography and Environments
and other studies in Geography.

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master degrees by research and the Doctor of Philosophy degree:

Physical Geography
Quaternary studies
Australian prehistory
Coastal geomorphology
Fluvial geomorphology
Evolution of landforms
Environmental impact
Environmental management
Remote sensing applications
Geographical information systems
Biogeography
Palynology
Natural hazards

Human Geography
Agricultural geography
Asian Studies
Environmental management
Remote sensing applications
Geographical information systems
Natural hazards
Australian prehistory
Urban studies
Population studies
Ageing and the elderly
Health and welfare
Food, nutrition and hunger
Social theory
Economic restructuring

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN PHYSICAL GEOGRAPHY AND ENVIRONMENTS

leading to the Master of Arts or Master of Science.

<table>
<thead>
<tr>
<th>Number</th>
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<tr>
<td>GEOS935</td>
<td>Research Report</td>
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<tr>
<td>GEOS941</td>
<td>Coastal Environments</td>
<td>8</td>
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<tr>
<td>GEOS942</td>
<td>Geomorphology of Rivers</td>
<td>8</td>
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<tr>
<td>GEOS943</td>
<td>Biogeography</td>
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<tr>
<td>GEOS945</td>
<td>Remote Sensing</td>
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<tr>
<td>GEOS946</td>
<td>Geographical Information Systems</td>
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<tr>
<td>GEOS948</td>
<td>Quaternary Studies</td>
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<td>GEOS949</td>
<td>Landscapes and Soils</td>
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<td>GEOS952</td>
<td>Natural Hazards</td>
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</table>

In consultation with the Head of the School of Geosciences, candidates select subjects which constitute a coherent program to the value of at least 48 credit points. Not all of these subjects will be offered in any year.

For further details, see Course Requirements below.
POSTGRADUATE PROGRAM IN HUMAN GEOGRAPHY AND ENVIRONMENTS

leading to the Master of Arts or Master of Science.

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<td>Geographical Information Systems</td>
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<td>GEOS947</td>
<td>Australian Prehistory</td>
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<td>GEOS951</td>
<td>Environmental Policy and Management</td>
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<td>GEOS952</td>
<td>Global Economic and Social Change</td>
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<td>Population Dynamics, Analysis and Policy</td>
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<td>GEOS954</td>
<td>Food and Development Studies</td>
<td>8</td>
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<td>GEOS955</td>
<td>Asian Development</td>
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</table>

In consultation with the Head of the School of Geosciences, candidates select subjects which constitute a coherent program to the value of at least 48 credit points. Not all of these subjects will be offered in any year.

For further details, see Course Requirements below.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Available to candidates with Honours degrees of at least Class II Division 2 standard. Candidates for this degree enrol in GEOS999.

2. HONOURS MASTER OF SCIENCE

3. HONOURS MASTER OF ARTS

The primary aim of the Honours Masters program in Geography is to provide research training at the postgraduate level. Students are required to have at least an Honours Class II, Division 2 degree in an appropriate discipline and will be required to complete a thesis with a value of at least 48 credit points. (GEOS944)

4. MASTER OF SCIENCE and MASTER OF ARTS

Geography offers a program of postgraduate level subjects which leads to the degree of Master of Science or Master of Arts. The program has been devised to meet the needs of students who wish to proceed to the postgraduate level, but for whom the research orientation of the Honours Masters degree is not appropriate.

Students with a satisfactory background in Geography will be required to complete subjects with a value of 48 credit points. Other students will be required to complete postgraduate subjects with a value of 72 points. The subjects are grouped in two strands which reflect the major research strengths of the Geography program, each of which provides a structured grouping of subjects relevant to a major vocational focus. Students are encouraged to confine their choice of subjects to one of the strands. Entry to the program and the choice of subjects will be dependent upon approval by the Head of the School of Geosciences.

All subjects are worth 8 credit points and will involve 6 contact hours per week.

5. GRADUATE DIPLOMA IN SCIENCE

The Graduate Diploma in Science offers graduates lacking a major strand of Geography in their degree the opportunity to acquire competence in the discipline. Alternatively, Geography graduates may enrol in the program in order to update, broaden and/or intensify their knowledge, e.g. for teaching, or to equip themselves for work in applied fields such as environmental, urban, regional or social planning. In addition to the University's Rules for Graduate Diplomas, candidates for the Graduate Diploma in Science shall:

i) complete Geography subjects to a value of not less than 48 credit points from those listed in the General Schedule, at least 24 credit points being for subjects at the 300-level and the remainder at 200-level, provided that, by approval of the Head of School, up to 12 credit points at 200-level may be obtained for cognate subjects offered by another Department;

ii) not include in the diploma program subjects which, in the opinion of the Head of School, are substantially equivalent in content to those for which credit has already been obtained towards some other degree or diploma;

iii) have their program approved by the Head of School before enrolling;

iv) successfully complete the graduate diploma program in not more than four academic sessions.

SUBJECT DESCRIPTIONS

GEOS935 Research Report

Spring

Contact hrs: 2 hrs workshop per week.
Assessment: research report.
This subject will allow the student to research in detail a problem identified in another subject within the program. Approval to enrol in this subject will only be granted to students who have demonstrated their capacity to undertake research by their performance in one or more of the other subjects in the strand.

GEOS941 Coastal Environments

Spring

Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per wk; 2-3 days field tutorial.
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.
This subject examines sedimentary and ecological processes on the coast. Coastal management is considered from geomorphological and ecological perspectives. Topics include the morphology and development of coastal landforms, particularly estuaries, deltas, chenier and beach-ridge plains, beaches and dunes, and coral reefs.
Emphasis is placed on interpreting Holocene morphostratigraphy and morpho-dynamics, reconstructing sea-level changes and the effect of sea-level changes on coastal environments, and understanding longer-term ecological and geomorphological processes.

**GEOS942 Geomorphology of Rivers**  
*Autumn*  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week; 2-3 days field tutorial.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

Rivers play a dynamic role in shaping the Earth's landscapes (geomorphology), constructing sedimentary sequences of economic importance (sedimentology), and presenting flood and erosion hazards, all of which greatly influence human use of the Earth's surface. This subject examines processes forming and modifying contemporary drainage basins, interprets fluvial sedimentary records and relates changes in these records to variations in climate and depositional environment. Particular attention is given to human modification and the management of river systems.

**GEOS943 Biogeography**  
*Autumn*  
8 cp  
Contact hrs: 2hrs lecture/seminar; 3hrs practical/tutorial per week; 2-3 days field tutorial.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

Biogeography is the study of the distribution of plants and animals and their interaction with the physical environment. This subject examines the present distribution of vegetation in relation to climate, topography and soils at global and local scales. Field methods of vegetation sampling and mapping are emphasised, as well as quantitative data analysis. The evidence for the evolution of Gondwanan flora and fauna is examined and related to climatic and geological changes.

**GEOS945 Remote Sensing**  
*Autumn*  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

This subject introduces the principles and techniques for identifying and mapping environmental features using images obtained from satellites and aircraft. Satellite imagery from Landsat, SPOT, NOAA and ERS will be examined. Case studies will be used to illustrate the multidisciplinary scope of remote sensing. Topics include environmental monitoring, vegetation analysis, geological exploration and urban planning. Practical work involves the development of interpretation skills as well as computer-based digital analysis.

**GEOS946 Geographic Information Systems**  
*Autumn*  
8 cp  
Contact hrs: 2hrs lecture/seminar; 3hrs practical/tutorial per week.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

This subject provides students with an understanding of Geographic Information Systems and the technical skills required to operate GIS software and analyse spatial data. Practical applications in natural resource management, urban and regional planning, pollution management, distribution of plant and animal communities, natural hazards, medical geography, economic and environmental geology and environmental impact assessment are emphasised. Topics include data acquisition, spatial data-bases and analysis, georeferencing, digital terrain modelling, and accuracy.

**GEOS947 Australian Prehistory**  
*Spring*  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week; 2-3 days field tutorial.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

This subject reviews the evidence for the antiquity of the Aborigines, and provides an introduction to the techniques of dating and interpreting aboriginal cultural sites. Topics include geomorphological and biogeographical techniques used for reconstructing late Quaternary environments; adjustments made by Aborigines to major environmental changes; the development and variety of aboriginal economies, aboriginal impact on the environment, including fire; extinction of giant marsupials; and environmental impact assessment of Aboriginal sites.

**GEOS948 Quaternary Studies**  
*Autumn*  
8 cp  
Contact hrs: 3hrs lectures/seminar; 3hrs practical/tutorial per week; 2-3 days field tutorial.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

The present environment of Australia is the legacy of interactions between geological, biological and hydrological processes and human impacts. Understanding Quaternary changes is now recognised as crucial to the interpretation of our biotic and geomorphic landscapes. Topics include the nature of the Quaternary record; dating methods; pollen and charcoal analysis; biotic change; the role of fire; and geomorphic change. A global context to Quaternary change is provided.

**GEOS949 Landscapes and Soils**  
*Spring*  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week; 2-3 days field tutorial.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

The interdependence of landform, hydrology and soil, together with time and place, are the major factors influencing landscape evolution. This subject examines denudation of highlands; survival of ancient landscapes; climatic and geomorphic controls on landforms; erosion; weathering processes and the formation of soils; laterites, silcretes and calcretes; soil surveying; environmental records of lakes; groundwater and surface-water processes and chemistry; dating of land-surfaces and groundwater; the hydrological cycle.

**GEOS951 Environmental Policy and Management**  
*Spring*  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week; 2-3 days field tutorial.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

Political, institutional, economic and geographic factors which influence environmental management are analysed in this subject. Particular attention is given to examining current approaches to environmental decision-making, assessment and evaluation. Emphasis is placed on the influence of political philosophies and social value systems, including those of indigenous peoples. Illustrations are drawn from a wide range of environmental issues, mainly from Australia, and commonly from the interface of human and physical geography.

**GEOS952 Climate and Natural Hazards**  
*Autumn*  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week; 1-2 days field tutorial.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

Natural hazards such as tropical cyclones, coastal storms, droughts, earthquakes, volcanoes and tsunami are undergoing extensive research in terms of our understanding about their behaviour and occurrence. The increasing frequency of these events is overwhelming existing global capabilities in mitigating their impacts and responding to their effects. This subject examines recently developed concepts on hazards and assesses changing societal consequences leading into the 21st century.

**GEOS953 Global Economic and Social Change**  
*Spring*  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week; 2-3 days field tutorial.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

This subject studies the impact of global restructuring on the patterns and nature of international trade, labour and service transfers, and the expression of these processes in urban society and space. It focusses on the geography of international trade, the internationalisation of labour and services (a major mechanism in the internationalisation of the global economy), and urban transformations as reflected in the built and social morphology of the city.
GEOS963 Population Dynamics, Analysis and Policy  
Spring  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.  
Questions relating to population and health are important in all societies. This subject considers the processes and outcomes of demographic change (fertility, mortality, migration), compositional variation (population size, structure and growth), epidemiological transition (health status) and distribution. Examples are drawn from both 'developed' and 'less developed' countries. Attention will also be given to population and health regulating policies and programs, particularly the implications for the provision of health care.

GEOS964 Food and Development Studies  
Autumn/Spring  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per week.  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.  
This subject seeks to increase student understanding of the processes operating from the local to international levels that result in inequalities in the distribution of food resources. It introduces key aspects of and explanations for the geography of hunger, including the roles of technology, aid and corporate interests in food resources. Food security issues are analysed using major theories of underdevelopment. Proposals for the alleviation of global hunger are canvassed.

GEOS965 Asian Development  
Autumn  
8 cp  
Contact hrs: 3hrs lecture/seminar; 3hrs practical/tutorial per wk).  
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.  
This subject examines the recent growth in the economies of South East and North Asia. This subject aims to examine the concept of development in Asia by addressing various case studies and theoretical perspectives. The subject not only compares mechanisms and consequences of economic development between Asian countries, but also with other less industrialised countries.

GEOS944 Major Thesis  
48 cp  
The major thesis for the Honours Master degree takes the form of a supervised full-time research project on an approved topic over at least two sessions.

GEOS999 Major Thesis  
48 cp per year  
The major thesis for the Doctor of Philosophy degree takes the form of a supervised research project on an approved topic.
COURSES OFFERED

The following postgraduate degrees and diploma are available:

1. Doctor of Philosophy
2. Honours Master of Science
   (a) Coursework
   (b) Coursework and Research
   (c) Research
3. Master of Science
4. Graduate Diploma in Science

POSTGRADUATE PROGRAMS

Fuels - Sedimentology
Minerals - Hard Rock Geology

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master of Science degree by research and the Doctor of Philosophy degree:

Coal Geology
Sedimentology of coal measure sequences, coalification, organic petrology, coal macerals and lithotypes, thermal maturation, organic geochemistry, coal quality evaluation, coal reserve estimation, coke and carbonization.

Environmental Geology
Pollution studies of coastal and estuarine depositional systems, palaeoecology of coastal sequences, pollution associated with mining, organic and inorganic geochemistry, isotope studies, land stability, clay mineralogy, hydrogeology, waste disposal, environmental impact studies.

Geophysics
Seismic refraction and reflection studies, structural and stratigraphic interpretation of seismic sections, gravity and magnetic methods. Collaboration with industry may be arranged for electrical and electromagnetic studies.

Igneous Petrology
Igneous petrology, especially geochemistry of granite and related volcanic rocks, isotope geochemistry, volcanology and the stratigraphy of volcanicogenic sequences, mineralogy.

Isotope Geochemistry
Elucidation of past environmental changes by the application of isotopic and trace-element tracers. Studies of ore-deposit formation and exploration of the regolith using the isotopes of oxygen, carbon, nitrogen, sulphur and hydrogen.

Metamorphic Petrology
Low-grade regional metamorphism, prograde and retrograde metamorphism, serpentinites, pressure and temperature studies in metamorphic petrology, mineralogy, geochemistry, skarn deposits.

Ore Geology
Structural and stratigraphic setting of ore deposits, ore petrology, geochemistry, isotope studies, ore reserve estimation and mathematical modelling, ore genesis.

Paleontology and Stratigraphy
Systematic descriptions of invertebrate fossils, trace fossils and fossil assemblages provide the basis for ecological and biostratigraphic studies (especially of Early and Middle Palaeozoic sequences). Sequence stratigraphic analysis and applied geophysical methods can be used to aid stratigraphic correlation and analysis.

Petroleum Geology and Oil Shales
Aspects of petroleum geology include sequence stratigraphy, sedimentology, diagenesis and porosity relationships in petroleum reservoirs, organic petrology, thermal maturation of organic matter in source and reservoir rocks, organic geochemistry of oil and gas, reserve estimations, applications of geophysical techniques to basin studies, petrography, sedimentology and geochemistry of oil shales.

Sedimentology
The sedimentology ofclastic and carbonate depositional systems including sedimentary petrology, palaeocurrent and basin analysis, with special reference to terrestrial and shallow marine facies.

Structural Geology and Tectonics
Structural geology of orogenic belts and sedimentary basins; plate tectonic interpretations of orogenic belts.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAMS IN MINERALS - HARD ROCK GEOLOGY

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<td>GEOS909</td>
<td>Applied Geophysics</td>
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<td>GEOS918</td>
<td>Analytical Methods in Geology</td>
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<td>GEOS910</td>
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**Even Years**

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<td>GEOS914</td>
<td>Volcanology</td>
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<td>GEOS923</td>
<td>Dynamic Earth</td>
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<td>GEOS913</td>
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For further details, see Course Requirements below.

**POSTGRADUATE PROGRAM IN FUELS - SEDIMENTOLOGY**

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<td>GEOS916</td>
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**Odd Years**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>GEOS903</td>
<td>Biostratigraphy</td>
<td>8</td>
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<tr>
<td>GEOS907</td>
<td>Seismic Exploration</td>
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<td>GEOS917</td>
<td>Petroleum Geology</td>
<td>8</td>
</tr>
<tr>
<td>GEOS918</td>
<td>Analytical Methods in Geology</td>
<td>8</td>
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<tr>
<td>GEOS920</td>
<td>Organic Petrology</td>
<td>8</td>
</tr>
<tr>
<td>GEOS923</td>
<td>Dynamic Earth</td>
<td>8</td>
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**Even Years**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
</table>

For further details, see Course Requirements below.

Note: Advanced Topics in Geosciences (GEOS910-913) in areas of specialisation may be included where appropriate and will be offered in the appropriate session.

A research thesis may be taken in addition to coursework, or in place of a coursework program, as appropriate to the degree course.

**GRADUATE DIPLOMA SUBJECTS (in addition to listed postgraduate subjects)**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>GEOS301</td>
<td>Field Geology</td>
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<td>GEOS302</td>
<td>Basin Resources</td>
<td>8</td>
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<td>GEOS303</td>
<td>Igneous and Metamorphic Rocks</td>
<td>8</td>
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<td>GEOS304</td>
<td>Dynamic Earth</td>
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<tr>
<td>GEOS307</td>
<td>Mineral Resources</td>
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</table>

**COURSE REQUIREMENTS**

1. **DOCTOR OF PHILOSOPHY**

Candidates for this degree enrol in GEOS999.

2. **HONOURS MASTER OF SCIENCE**

*Introduction and Objectives*

The rapid development of earth sciences has produced a need for postgraduate coursework. The courses offered by the discipline of Geology will provide further training to graduates currently employed in industry or in education. The courses are intended to provide general rather than specialist training. Specialist training is mainly by the preparation of a research thesis, but specialist coursework training is also available.

*Structure of the Course*

The course will be made up of subjects selected from one of the listed postgraduate programs or a 48 credit point research thesis.

Students entering with a degree in Geology at the level of at least Honours Class II, Division 2 will take subjects to a value of 48 credit points.

Students entering with a pass degree will take subjects to a value of 96 credit points.
Entry to the Course
Entry is subject to the approval of the Head of the School of Geosciences.

Selection of Subjects
Students must consult the Head of the School of Geosciences for approval of their proposed choice of subjects.

Strands
The subject combinations in each program may be varied to take account of the candidates' qualifications, objectives and study plan.

Pre-requisites
The minimum pre-requisite for all subjects is that the student must have graduated with at least 24 credit points of 300-level Geology subjects.

3. MASTER OF SCIENCE
The discipline of Geology offers a program of postgraduate level subjects which leads to the degree of Master of Science. It is designed for applicants from industry and education, and for students who wish to proceed beyond the three-year pass degree but for whom the research component of the Honours degree is inappropriate.

Students entering the program with a pass degree in Geology or other approved courses will be required to complete subjects with a value of 48 credit points. For other requirements see the Master Degree Rules.

Entry to the course will be subject to the approval of the Head of the School of Geosciences. Students must consult the Head of School for approval of their proposed choice of subjects. Subjects will normally be selected from one of the listed postgraduate programs.

4. GRADUATE DIPLOMA IN SCIENCE
This course will provide:

1. a mechanism which permits practising geologists within the industry to acquire the knowledge necessary to improve their performance; and
2. holders of a general geology degree to specialize in an expanding field of employment.

This course can be taken as an in-service part-time course aimed at upgrading and updating professional expertise in areas of rapid development.

Admission Requirements
Applicants for admission are required to:

1. have a degree with a major in Geology; or
2. have other appropriate qualifications and professional experience.

Course Structure
Students will be required to complete subjects to the value of 48 credit points. Subjects should be selected from one of the listed postgraduate programs, together with one or more appropriate 300-level geology subjects (as set out in the Undergraduate Calendar). The selection of subjects shall be approved by the Head of the School of Geosciences who may also nominate other subject(s) deemed appropriate.

SUBJECT DESCRIPTIONS

GEOS901 Isotope Geochemistry
Autumn
Contact hrs: up to 42 hrs of lectures/seminars/practicals/tutorials; Assessment: as appropriate from essays, reports, seminars, final examination.
Topics include sample preparation; mass spectrometry; applications of both radiogenic and stable isotopic systems; geochronology modelling; petrogenetic modelling.

GEOS902 Diagenesis
Spring
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; Assessment: as appropriate from essays, reports, seminars, final examination.
Topics include evolution of diagenetic processes acting on clastic and carbonate sedimentary sequences; interaction between cementation, secondary porosity and permeability in the development of subsurface reservoirs. Laboratory work will include petrology of selected suites of rocks including photomicroscopy, SEM, XRD and assessment of porosity and permeability.

GEOS903 Biostratigraphy
Autumn
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; Assessment: as appropriate from essays, reports, seminars, final examination.
Topics include principles of and developments in biostratigraphy; zonation, assemblages, correlation; biogeography, importance of various fossil groups; Australian and other case histories in biostratigraphy.

GEOS904 Ore Genesis
Spring
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; Assessment: as appropriate from essays, reports, seminars, final examination.
Topics include principles of ore genesis; spatial and temporal considerations; experimental studies; plate tectonics and ore genesis; hydrothermal fluids, fluid inclusions; genesis of hydrothermal, magmatic, metasomatic, sedimentary and residual deposits.

GEOS906 Metamorphism
Spring
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; Assessment: as appropriate from essays, reports, seminars, final examination.
Topics include the genesis of metamorphic rocks; contact metamorphic and metasomatic phenomena; regional metamorphism at contrasted pressures and temperatures; and the roles of pressure, temperature, time and fluid composition in metamorphism.

GEOS907 Seismic Exploration
Spring
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; Assessment: as appropriate from essays, reports, seminars, final examination.
Topics include acquisition and processing of seismic data, structural interpretation of seismic sections; seismic stratigraphy; well logging and well ties; seismic modelling and reservoir evaluation; high-resolution seismic reflection, in-seam seismic. Laboratory work
includes interpretation of seismic data using both conventional paper
records and interactive computer displays.

GEOS909 Applied Geophysics
Spring 8 cp
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; up to
4 days field tutorial.
Assessment: as appropriate from essays, reports, seminars, final
examination.
Topics include gravity; magnetics; electrical and electromagnetic
methods; well logging methods and interpretation. Laboratory work
includes interpretation of synthetic and real data, field work includes
use of equipment, data collection and interpretation.

GEOS910 Advanced Topics in Geosciences A
Double 16 cp
Assessment: as appropriate from essays, reports, seminars, final
examination.
This project will consist of a library and/or laboratory study on some
topical aspect of geosciences equivalent to one third of full-time
study.

GEOS911 Advanced Topics in Geosciences B
Double 16 cp
Assessment: as appropriate from essays, reports, seminars, final
examination.
This project will consist of a library and/or laboratory study on some
topical aspect of geosciences equivalent to one third of full-time
study.

GEOS912 Advanced Topics in Geosciences C
Autumn/Spring 8 cp
Assessment: as appropriate from essays, reports, seminars, final
examination.
This project will consist of a library and/or laboratory study on some
topical aspect of geosciences equivalent to one sixth of full-time
study.

GEOS913 Advanced Topics in Geosciences D
Autumn/Spring 8 cp
Assessment: as appropriate from essays, reports, seminars, final
examination.
This project will consist of a library and/or laboratory study on some
topical aspect of geosciences equivalent to one sixth of full-time
study.

GEOS914 Volcanology
Autumn 8 cp
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; up
to 4 days field tutorial.
Assessment: as appropriate from essays, reports, seminars, final
examination.
Topics include physical aspects of volcanology of both modern and
ancient volcanic deposits; tectonic setting of volcanoes and the
physical properties of magmas; effects on volcanic processes and
deposits.

GEOS916 Organic Geochemistry
Autumn 8 cp
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; up to
4 days field tutorial.
Assessment: as appropriate from essays, reports, seminars, final
examination.
Topics include carbon compounds; kerogen and its analysis
(elemental analysis, van Krevelen diagrams), pyrolysis (RockEval,
pyrolysis-GC), solvent extraction, gas chromatography, mass
spectrometry); formation and analysis of petroleum, biomarkers;
petrology of oil shale and source rocks; source rock and maturation
concepts in petroleum geology; reflectance profiles, geothermal
gradients and burial history; thermal modelling.

GEOS917 Petroleum Geology
Spring 8 cp
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; up to
4 days field tutorial.
Assessment: as appropriate from essays, reports, seminars, final
examination.
Topics include definition and prediction of subsurface petroleum
reservoirs based on sedimentological and petrological criteria; use of
facies models for reservoir prediction and evaluation; reservoir
dynamics - fluid migration, entrainment and extraction; drilling and
extraction methods, well testing, reservoir and reserve evaluation;
Australian and international petroleum reserves.

GEOS918 Analytical Methods in Geology
Autumn 8 cp
Contact hrs: up to 42 hrs of lectures/seminars/practicals/tutorials.
Assessment: as appropriate from essays, reports, seminars, final
examination.
Topics include an outline of the theory and practice of modern
analytical methods in petrology and determinative mineralogy;
mineral separation; use of various analytical techniques including
XRD, XRF, SEM, ICP and microprobe.

GEOS919 Basin Setting and Analysis
Spring 8 cp
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; up to
4 days field work.
Assessment: as appropriate from essays, reports, seminars, final
examination.
Topics include tectonic development of sedimentary basins; coal,
petroleum and mineral deposits in sedimentary basins; spatial
relationships; analytical aspects of basin analysis including
paleoecorelative analysis, sedimentary facies relationships within the
basin fill, paleontological parameters in sedimentary basins and
mathematical analysis of basin data.

GEOS920 Organic Petrology
Spring 8 cp
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; up to
4 days field work.
Assessment: as appropriate from essays, reports, seminars, final
examination.
Topics include sample preparation; fluorescence and white light
microscopy; macerals, microlithotypes, lithotypes; evolution of flora;
coal-forming environments; formation of peat, coalification; type and
rank; heat-affected coals, coke; Gondwana coals; coal petrology and
associated stratigraphic, tectonic and palaeogeographic problems;
minerals in coal and oil shale.

GEOS921 Environmental Geology
Spring 8 cp
Contact hrs: up to 42 hrs lectures/seminars/practicals/tutorials; up to
4 days field tutorial.
Assessment: as appropriate from essays, reports, seminars, final
examination.
Topics include the relationship of mining operations to communities;
downstream pollution problems; mineralogical composition and
types of associated dusts; composition of mine waters and stack
emissions, the reclamation of mine sites; effects of mine subsidence;
the composition, uses and disposal of waste residues; environmental
impact studies; alienation of resources; conflicts of interest in mining
operations.

GEOS923 Dynamic Earth
Autumn 8 cp
Contact hrs: up to 42 hrs of lectures/tutorial/practicals; up to 4 days
field tutorial.
Assessment: as appropriate from essays, reports, seminars, final
examination.
The subject provides an overview of dynamic Earth with analysis of
isotopic processes of deformation. Topics covered in the subject
include: plate tectonics, deformation of the crust and modern
techniques in structural geology and tectonics. The principles of
stress, strain and deformation are taught and applied to the
understanding of rock structures. Aspects of the tectonic evolution
of orogenic belts, including eastern Australian examples, are also dealt
with.

GEOS970 Project A 16 cp
Assessment: reports, seminars, essays and examinations as
appropriate.
This project will consist of a field and/or laboratory study on some
topical aspect of geosciences equivalent to one third of full-time
study.

GEOS971 Project B 16 cp
Assessment: report, seminar and essays and examinations as
appropriate.
This project will consist of a field and/or laboratory study on some topical aspect of geosciences equivalent to one third of full-time study.

**GEOS944 Major Thesis**  
48 cp  
The major thesis for the Honours Master degree takes the form of a supervised full-time research project on an approved topic over at least two sessions.

**GEOS999 Major Thesis**  
48 cp  
The major thesis for the Doctor of Philosophy degree takes the form of a supervised research project on an approved topic.
Organisational Structure

Faculty Structure

**Arts**
- English Studies
- Sociology
- History and Politics Studies
- Modern Languages
- Philosophy
- Science and Technology Studies
- Communication and Cultural Studies

**Commerce**
- Accounting and Finance
- Business Systems
- Economics
- Management
- Marketing
- Business School

**Creative Arts**
- Creative Writing
- Performance
- Visual Arts
- Journalism

**Associated Unit**
- Conservatorium of Music

**Education**
- Early Childhood Education
- Primary Education
- Secondary Education
- Adult Education and Training
- Higher Education
- Physical and Health Education

**Engineering**
- Civil, Mining and Environmental Engineering
- Materials Engineering
- Mechanical Engineering
- Engineering Physics

**Health and Behavioural Sciences**
- Biomedical Science
- Nursing
- Psychology
- Public Health and Nutrition

**Informatics**
- Mathematics and Applied Statistics
- Electrical, Computer and Telecommunications Engineering
- Information Technology and Computer Science

**Law**
- LLB programs
- Legal Studies
- Practical Legal Training
- Court Management
- Natural Resources Law and Policy

**Science**
- Biological Sciences
- Chemistry
- Geosciences
- Environmental Science
### HONORARY GRADUATES

<table>
<thead>
<tr>
<th>Year</th>
<th>Degree</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>1976</td>
<td>DSc</td>
<td>Professor Charles A M Gray, Hon JMN, BSc ME Syd, Hon DSc UNSW, CEng FIMEche, MICE, MIE Aust, FIE (Malaysia), Emeritus Professor, University of Malaya.</td>
</tr>
<tr>
<td>1976</td>
<td>DSc</td>
<td>Professor Rupert H Myers, KBE, FTS, MSc, PhD Meib, Hon DSc, Hon LLDr Strath, Hon DEng N°ne, Hon DLitt UNSW, FIMMA, FRACI, FAusIMM, FAIM, FAICD, Hon FIEAust</td>
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<tr>
<td>1977</td>
<td>DLitt</td>
<td>David E Parry, BE Syd</td>
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<td>1977</td>
<td>DLitt</td>
<td>Sir Robert Webster (dec'd), CMG, CBE, MC Hon DSc NSW, FASA</td>
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<td>1978</td>
<td>DLitt</td>
<td>Edgar Beale (dec'd)</td>
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<tr>
<td>1978</td>
<td>DSc</td>
<td>Sir Ian Munro McDennan, KBE, CBE, BEE Meib, Hon DEng Meib and N°ne (NSW)</td>
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<tr>
<td>1980</td>
<td>DLitt</td>
<td>Walter Pike, MA DipFA Lond, DipEd Camb, AFAIM, MACE</td>
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<tr>
<td>1981</td>
<td>DLitt</td>
<td>Lindsay Michael Birt, CBE, BAgrSc BSc PhD Meib, DPhil Oxford</td>
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<td>1984</td>
<td>DLitt</td>
<td>Sir Richard Kirby, LLB Syd</td>
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<tr>
<td>1985</td>
<td>DSc</td>
<td>Thistle Yolette Stead</td>
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<td>1986</td>
<td>DCA</td>
<td>MA (Hons)</td>
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<tr>
<td>1988</td>
<td>DSc</td>
<td>Howard Knox Worner, CBE, DSc DEng Meib, Hon DSc N°ne (NSW), ABSM, CEng, FAA, FTS, MAUSIMM, FIEAust, FRACI, FAIE, FIM, FIMMA, MAIME</td>
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<td>1988</td>
<td>DSc</td>
<td>Daniel Tague, DipElec/ Mech Eng, CEng</td>
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<td>1989</td>
<td>DLitt</td>
<td>Brian Somerville Gillett, BA DipEd Syd, ACES</td>
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<td>1990</td>
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<td>Sir Roden Cutler, VC, KCMG, KBE, CBE, KSJ, BSC Syd, Hon LLDr Syd, Hon DSc UNSW and N°ne (NSW), Hon DLitt NE, Hon FCA</td>
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<td>1990</td>
<td>DCA</td>
<td>John Henry Antill (dec'd), OBE, CMG</td>
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<td>1990</td>
<td>PhD</td>
<td>Luigi Strano</td>
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<tr>
<td>1990</td>
<td>DSc</td>
<td>Franco Belgiorino-Nettis, CBE AM, BSc Turin</td>
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<td>1991</td>
<td>LLD</td>
<td>The Honourable Robert Marsden Hope, AC CMB, LLB Syd, QC</td>
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<td>1992</td>
<td>DSc</td>
<td>Geoffrey Sawyer (dec'd), BA LLM Meib, Joseph Mark Gani, BSc Lond, PhD ANU</td>
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<td>1992</td>
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<td>Brian Thorley Lotton, AC, BMetE Meib, FIEAust, MAusIMM MAIME, FAIM</td>
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<td>1992</td>
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<td>John Arthur Passmore, MA HonDLitt Syd, HonDLitt MCf, FAHA, FASSA, FBA</td>
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<td>1993</td>
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<td>Roger Robert Woodward, AC, OBE, AFAIM, MACE</td>
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<td>1993</td>
<td>DSc</td>
<td>Emeritus Professor Raymond Chambers, AO, BSc DSc HonDSc N°ne (NSW), FACPA, FASSA</td>
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<td>1993</td>
<td>DLitt</td>
<td>The Most Reverent Richard Henry Goodhew, ThL, AustCollTheol, MA</td>
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<td>1994</td>
<td>LLD</td>
<td>The Honourable Justice Jane Mathews, LLB Syd</td>
</tr>
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<td>1994</td>
<td>LLD</td>
<td>Patricia June O'Shane, LLB, LLM (Syd) AM</td>
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<td>1994</td>
<td>DCs</td>
<td>Guy Kendall White, MSC (Syd), DPhil(Oxford), FinInsP, FAIP FAA</td>
</tr>
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<td>1995</td>
<td>DLitt</td>
<td>Professor Dorothy L M Jones, MA NZ and Adel, BLitt Oxf, DLitt</td>
</tr>
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<td>1995</td>
<td>DLitt</td>
<td>Professor Kenneth R McKinnon, AUA Adel, BA BED Qld, EdD Harv, FACE</td>
</tr>
<tr>
<td>1995</td>
<td>DSc</td>
<td>John Stocker, MBBS, PhD Meib</td>
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### EMERITUS PROFESSORS

<table>
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<tr>
<th>Year</th>
<th>Degree</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>1978</td>
<td>Austin Keane (dec'd), MSc Syd, PhD UNSW, DSc</td>
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<tr>
<td>1981</td>
<td>Kenneth Alan Blakey, BA NZ, MSc Lond, BCom Meib, DPhil Oxford</td>
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<td>1985</td>
<td>Geoffrey Brimson, MSc Meib, PhD Sheff, FIM, MAusIMM, CEng</td>
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<td>1986</td>
<td>R Barry Leal, MA DipEd Syd, PhD Qld</td>
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<td>1988</td>
<td>Brian H Smith, BE PhD Adel, MIEE, FIEAust</td>
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<tr>
<td>1989</td>
<td>Peter Desmond Rousch, BA BEd Meib, PhD Wayne State, FACE, FAIM</td>
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<td>1990</td>
<td>Ian William Chubb, MSc DPhil Oxford</td>
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<td>1993</td>
<td>J Lauchlan Carter Chipman, MA LLB Meib, BPhil, DPhil Oxford, DipTertiaryEd NE</td>
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<td>1995</td>
<td>James S Hagan, BA DipEd Syd, PhD ANU</td>
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<tr>
<td>1996</td>
<td>Barry Conygham, MA(Hons) Syd, Dmus Meib, Helen Garnett</td>
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<td>1996</td>
<td>Professor Kenneth R McKinnon, AUA Adel, BA BEd Qld, EdD Harv, FACE</td>
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<tr>
<td>1996</td>
<td>Hugh Bradlow (Eng) Cape T, DPhil Oxford, FTS, FIEAUST, MIEE, MIEE, CRing, Murray Wilson MA NZ, MA Wis, PhD Meib</td>
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<tr>
<td>1997</td>
<td>James Edward Falk, Bsc PhD Monash</td>
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### FELLOWS OF THE UNIVERSITY

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>1985</td>
<td>Francis Neville Arkell, Ethel Hoskins Hayton (dec'd)</td>
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<tr>
<td>1995</td>
<td>John Forrest Hayman Clark, B MechE Meib, FIEAust, MAusIMM, MAme, FAIM</td>
</tr>
<tr>
<td>1996</td>
<td>Burton Challrice Moldrich, BA Ceyl, Dip Tertiary Ed NE, Robert John Butler Pearson, AM, FIM, AMTC, MAusIMM, FIMMA, FAIM</td>
</tr>
<tr>
<td>1988</td>
<td>John Frederick Bell, Colin Denley, Gerald Anthony Freed, BSc Manc, MBIMME, WInfred Joyce Mitchell, BA MA NE, PhD UNSW</td>
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<tr>
<td>1989</td>
<td>John Eveleigh, DipFA Slade Lond, FRSA</td>
</tr>
<tr>
<td>1990</td>
<td>Efrem Bonacina, OAM, Giulia Bonacina, BEM, Herbert Flugelman, Ferdinando Lelli</td>
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1991  
Des Davis, BA, Syd, MA N’cle (NSW)  
Harold Hanson, AM  
Raymond E Heslehurst, BD Lond, ThL MTh AustCollTheol  
James Barry Kelly, FAIM

1992  
Edward Walter Tobin  
Cornelius Harris Martin, AO (dec’d)

1993  
Noel Gordon Diffey, BBus Riv  
Dr Sultan Aly, MBBS, Karachi, BSc Punjab  
Peter George Kell

1994  
Ronald William John Robinson James AM MBE (Syd)  
John Charles Steinke, BA MA Calif  
Robert William Upfold, BEME PhD NSW, ASTC, C Eng,  
CPeng, FIE Aust, MIMech, MAusIMM  
Ir Djoko Subagyo, BEng Moscow  
Ross Munro Walker  
Walter William Jervis

1995  
Jeremy Kitson Ellis, BA Oxf  
Vincent J Cincotta, BS Fordham, MA Col, DML Middlebury  
David Campbell  
Mavis Miller, BA, MStudFr/lt  
Graham Parker

1996  
Winifred Lily Ward BA (Hons) PhD  
Ronald James Broadfoot BSc ANU, DipEd UNW, Bed MEd  
UnE, PhD Syd  
Paul Edward Jeans BE (Mech) UNSW, FIE Aust  
Patricia Mowbray  
Shirley Nixon, BA  
Ian McMaster, BE(Met) Melb  
George Malby, BA Syd

1997  
Kenneth Eardley Baumber, Bsc St.And.  
June Llewellyn Hope  
Beverley Ann Lawson APM, AssocDipAdmin  
Rod Oxley, BBus, AssDipLocGvt  
Robert Duncan Somervaille AO, LLB Syd  
Kevin Edward Turnbull, BA, DipTertiaryEd NE, DipEd
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6. Liability of Members
7. Surplus funds after Winding Up
8. Changes to the Memorandum and Articles
9. Subscribers

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3. Ending Membership
4. Board Membership
5. Proceedings of the Board
6. Powers and duties of the Board
7. Board Members potential Conflicts of Interest
8. General Manager
9. Annual General Meetings
10. General Meetings
11. Proceedings at General Meetings
12. Seal
13. Indemnity

MEMORANDUM OF ASSOCIATION of WOLLONGONG UNICENTRE LIMITED

4. Powers of UniCentre
UniCentre has all the powers of a natural person but its powers must only be used in the pursuit of its objects.

5. Restrictions on Use of Income
(a) The income of UniCentre must:
   (i) only be used to pursue its objects; and
   (ii) not be paid or transferred, directly or indirectly, by way of dividend or bonus to any Member.

(b) For clarity, clause 5(a)(ii) does not prevent UniCentre from using its income to pay:
   (i) employees of UniCentre;
   (ii) for goods or services provided to UniCentre;
   (iii) a commercial rate of interest on borrowed funds;
   (iv) a commercial rent for property used by UniCentre;
   (v) out of pocket expenses incurred on official business of UniCentre; or
   (vi) subject to the provisions of any agreement entered into in a particular case, the remuneration of the General Manager or a Board Member appointed to an executive office, as fixed by the directors; even if the recipient of the remuneration is a Member.

6. Liability of Members
(a) The liability of the Members is limited.

(b) If UniCentre is wound up each Member undertakes to contribute to:
   (i) property of UniCentre while he or she is a Member, or within one year after he or she ceases to be a Member, for payment of the debts and liabilities of UniCentre (contracted before he or she ceases to be a Member); and
   (ii) costs, charges, and expenses of winding up and for the adjustment of the rights of the contributories among themselves, such amount as may be required, but not exceeding $1.00.

7. Surplus funds after Winding Up
(a) If UniCentre is to be wound up and there is a surplus available after all liability has been discharged, the surplus must be given to an organisation approved by the Council which has similar:
   (i) objects to UniCentre; and
   (ii) restrictions on the use of its income as UniCentre.

(b) The surplus must be given to an organisation approved by the Council which has similar:
   (i) objects to UniCentre; and
   (ii) restrictions on the use of its income as UniCentre.

(c) If the Council does not approve, within a reasonable time, an organisation to be given the surplus, the Supreme Court of New South Wales may make an order deciding which organisation will be given the surplus. An application to the Supreme Court of New South Wales may be made by the Vice Chancellor, any Board Member or former Board Member.
8. Changes to the Memorandum and Articles
Changes to either of the Memorandum or Articles of Association have no force and effect unless approved by the Council and passed by a 3/4 majority of Voting Members present at a General Meeting.

9. Subscribers
The names, addresses and occupations of the subscribers are:

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The signatories wish UniCentre to be formed as a company limited by guarantee in accordance with this Memorandum of Association.

Signatures of Subscribers Witness to signature Address of Witness

DATED 1997

ARTICLES OF ASSOCIATION of WOLLONGONG UNICENTRE LIMITED

1. Dictionary and Interpretation
1.1 Annual Board Election means the annual election of the Elected Board Members due for election.
1.2 Appointed Board Members means:
   (a)  A person chosen by the Vice Chancellor, who shall be the Executive Chair;
   (b)  4 people chosen by the Council; and
   (c)  the General Manager of UniCentre.
1.3 Articles means the Articles of Association of UniCentre, as amended from time to time.
1.4 Associate Member is any person designated as an Associate Member by the Board and subject to any terms imposed by the Board.
1.5 Board means the UniCentre Board in office or a quorum of the Board Members at a Board meeting.
1.6 Board Members means:
   (a)  the Appointed Board Members;
   (b)  Elected Board Members; and
   (c)  the Co-Opted Board Member.
1.7 Co-Opted Board Member means a person co-opted by the Board, and approved by the Vice Chancellor.
1.8 Council means the Council of the University.
1.9 Deputy Chair means the Deputy Chair of UniCentre.
1.10 Elected Board Members means 6 Board Members, 5 of whom are elected by the Student Members and University Employee Members voting together, at least one of whom must be a Student Member and 1 of whom must be a University Employee Member. The sixth Board Member must be a UniCentre Employee Member elected by the UniCentre Employee Members. No person may be elected unless he or she is a Voting Member.
1.11 Executive Chair means the Executive Chair of UniCentre.
1.12 First Annual General Meeting means the first annual General Meeting of UniCentre.
1.13 General Manager means the person appointed pursuant to these Articles.
1.14 General Meeting includes an annual general meeting.
1.15 Honorary Members are any people designated as an Honorary Member by the Board.
1.16 Leave of absence means the permission for Board Members to be absent from a meeting. Board Members may obtain Leave of Absence under the Standing Orders.
1.17 Life Members are any people designated as a Life Member by the Board and subject to any terms imposed by the Board.
1.18 Members means:
   (a)  Associate Members;
   (b)  General Manager;
   (c)  Honorary Members;
   (d)  Life Members;
   (e)  Student Members;
   (f)  Temporary Members;
   (g)  UniCentre Employee Members;
   (h)  the University; and
   (i)  University Employee Members;
1.19 Student Members are the enrolled students at the University. Student Membership ends when a student's enrolment at the University ends.
1.20 Standing Orders or Election Regulations means the orders made from time to time by the Board, regulating any matter of procedure and protocol for Board meetings and General Meetings.
1.21 Teaching Weeks are the weeks designated as teaching weeks in the University calendar published by the University for the current year.
1.22 Temporary Member means any person attending a conference, seminar, function, occasion or event held at the University or held elsewhere, which is organised by UniCentre or the University, who wishes to become a Temporary Member and is properly admitted as a Member.
1.23 UniCentre means Wollongong UniCentre Limited.
1.24 University means the body corporate established as the University of Wollongong under the University of Wollongong Act, 1989.
1.25 University Employee Members are any people employed by the University. University Employee Membership ends when the person's employment by the University ends.
1.26 UniCentre Employee Members are any people employed by UniCentre. UniCentre Employee Membership ends when the person's employment by the UniCentre ends.
1.27 Vice Chancellor means the Vice Chancellor of the University.
1.28 Voting Members are all Members except Associate Members, Honorary Members and Temporary Members.
1.29 Wollongong UniCentre means the unincorporated association known as Wollongong UniCentre in existence immediately prior to the incorporation of UniCentre.
1.30 Any reference to a statutory provision means a reference to the statutory provision as modified or re-enacted.
1.31 The Articles are subject to:
   (a)  the Corporations Law;
   (b)  The University of Wollongong Act, 1989; and
   (c)  Regulations made under that Act.

If there is an inconsistency the provisions of these instruments will prevail over the Articles in the order listed but only to the extent necessary to make the provisions consistent with each other.
4.1 Until the Annual Board Election the initial Board Members will become Members.

2. Membership and Membership Fees

2.1 A person who is entitled to become a Member, who agrees to become a Member and whose name is entered in the register of members, becomes a Member.

2.2 The Board may determine how people are admitted as Members.

2.3 The Board will recommend to the Council joining and annual Membership fees.

2.4 The Council will determine the joining and the annual Membership fees.

2.5 Joining and annual Membership fees may be different for different types of Members.

2.6 Members must pay the applicable annual Membership fee, to remain Members.

3. Ending Membership

3.1 The Board may end the Membership of any Member if:

(a) the Member ceases to be entitled to remain as a Member; or

(b) if a Member willfully causes material damage to any property of UniCentre or the University.

3.2 The Board may only end a person's Membership under Article 3.1(b), if the Member does not give the Board, within 14 days of being required to do so, a written explanation satisfactory to the Board.

3.3 In any case arising under article 3.1(b), the Board, if it does not receive such an explanation, may:

(a) in lieu of ending the Member's Membership:

(i) suspend all or any of the Member's privileges; and/or

(ii) stop the Member from using UniCentre facilities;

(b) whether Membership is ended or not, require the Member to pay for the fixing or replacing of any damaged property; and

(c) require, whatever action is taken, give details of the matter to the Vice Chancellor.

4. Board Membership

4.1 Until the Annual Board Election the initial Board Members will be the Board Members of Wollongong UniCentre and they will hold the same position as they do in Wollongong UniCentre. Those Board Members of Wollongong UniCentre who were due to retire at the next Board Election of Wollongong UniCentre, shall retire after the first Annual Board Election and the remainder of the Elected Board Members shall retire after the following Annual Board Election.

4.2 Each Board Member is appointed for a 2 year term which:

(a) in the case of Elected Board Members:

(i) begins at the beginning of the first Board meeting following the Annual Board Election at which they were elected; and

(ii) ends at the end of the second Annual Board Election following their election;

(b) in the case of Appointed Board Members:

(i) the appointment must be made and begins immediately after each Annual Board Election; and

(ii) ends at the end of the second Annual Board Election following their appointment;

(c) in the case of the Co-opted Board Member:

(i) he or she must be co-opted at the first Board meeting after an Annual Board Election; and

(ii) his or her term ends at the end of the second Annual Board Election after he or she was co-opted.

4.3 A person stops being a Board Member if the person:

(a) dies;

(b) resigns by writing to the Executive Chair;

(c) no longer satisfies the definition of Board Member;

(d) has his appointment rescinded by either the Vice Chancellor or the University;

(e) is absent from 3 consecutive Board meetings without Leave of Absence;

(f) is found guilty of a criminal offence punishable by imprisonment; or

(g) is ineligible to remain a Board Member under any law.

4.4 If a person stops being a Co-opted Board Member, the Board shall co-opt another, who shall first be approved by the Vice Chancellor.

4.5 If an Appointed Board Member stops being an Appointed Board Member, then a new Board Member must be appointed by the person or organisation entitled to appoint a person to that position.

4.6 If an Elected Board Member vacates a position on the Board, then a new Board Member must be elected by those entitled to vote for that person. However, no election is necessary if a vacancy occurs within 2 months from the next annual general meeting.

4.7 Except for an emergency, the Board may only conduct any election to fill a vacancy during Teaching Weeks of the Spring and Autumn sessions of the University.

4.8 Subject to article 4.7, if an election is needed to fill a vacancy, it must be held within 42 days after the position becomes vacant.

4.9 The Board may continue to operate even if there is a vacancy.

4.10 The Board must elect a Deputy Chair

(a) from among the Board Members, and

(b) at the first Board meeting after the annual general meeting.

4.11 If the office of Deputy Chair becomes vacant, the Board must elect from its Members a new Deputy Chair, as soon as possible.

4.12 The Secretary of the Board will be the General Manager or a person that the General Manager chooses.

4.13 The corporate representative of the University appointed under the Corporations Law, may pass a resolution which is binding on UniCentre that the Board be removed or any particular Board Member or Board Members be removed if:

(a) the University has given 21 days notice of its intention to pass the resolution to UniCentre; and

(b) the University, by a special resolution passed by those present at a Council meeting, has resolved that the Board be removed or any particular Board Member or Board Members be removed.

4.14 For the purposes of article 4.13 and despite articles 10 and 11:

(a) a meeting may be called by the University outside Teaching Weeks;

(b) notice of the meeting does not have to be given to any other Member; and

(c) the corporate representative of the University present at the meeting constitutes a quorum.

4.15 If a resolution of UniCentre is passed under article 4.13 the University may appoint a temporary Board or Board Member in place of those removed pending the calling of elections or the appointment of another Appointed Board Member, in accordance with the Articles. At the end of this election each temporary Board Member must resign.
5. Proceedings of the Board

5.1 Any Board Member with the written approval of the Executive Chair may convene a Board meeting or instruct the Secretary to convene a Board meeting.

5.2 Notice of each Board meeting:
(a) may be given by any means as the Board considers convenient, including (but not limited to) by telephone or electronic transmission; and
(b) must be given to all Board Members.

5.3 The quorum for a Board meeting is 7 out of which must be present the Executive Chair or the Deputy Chair.

5.4 The Executive Chair will be the Chair at each Board meeting. If the Executive Chair is not at a Board meeting within 15 minutes of the scheduled time for the Board meeting to commence, the Deputy Chair will be the Chair of the meeting.

5.5 If there is no quorum under article 5.3, the Chair must adjourn the meeting to the same time and place, the next week. At the adjourned meeting, if there is still no quorum present under article 5.3, the Board Members present shall constitute a quorum.

5.6 The Board must decide all issues by majority vote. If there has been a vote, and the votes are equal then the Chair has a casting vote to decide the issue.

5.7 If a majority of the Board have signed a document containing a statement that they are in favour of a resolution of the Board in terms set out in the document, a resolution in those terms is treated as having been passed at a meeting of the Board held on the day on which the document was signed or, if the Board Members sign the documents on different days, on the day on which the document was last signed by a Board Member thereby constituting a majority of the Board unless the document, by its terms, is said to take effect from an earlier date.

6. Powers and duties of the Board

6.1 The Board is vested with and responsible for pursuing the objects of UniCentre and controlling its affairs and property.

6.2 The acts of the Board remain valid even though the Voting Members subsequently pass a resolution to the contrary.

6.3 All negotiable instruments and receipts may be executed in any manner as the Board decides.

6.4 The Board must:
(a) meet at least 6 times a year;
(b) keep proper financial statements in accordance with the Corporations Law;
(c) have the accounts audited by the Auditor General of New South Wales;
(d) give the Council an audited financial statement each year;
(e) give the Council an Annual Report; and
(f) generally comply with the Corporations Law.

6.5 The Annual Report must refer to:
(a) the control, management and activities of UniCentre;
(b) the audited financial statements of UniCentre; and
(c) anything else which the Board thinks should be reported because it affects the interests of UniCentre.

6.6 The Board may establish:
(a) committees, and
(b) other advisory groups, on any terms it decides.

6.7 A person acting as a member of a committee or advisory group is deemed to be an officer of UniCentre.

6.8 The Board from time to time can make:
(a) Standing Orders, and
(b) Election Regulations; and until decided otherwise the Standing Orders and Election Regulations which apply or applied to the Wollongong UniCentre, will apply to UniCentre.

6.9 The Board must annually and before 31 August in each year, and
(a) prepare a budget, and
(b) send the budget to Council for its information.

6.10 The budget must cover the operations of UniCentre for the coming financial year.

6.11 The acts of the Board are valid even if it is discovered that a particular Board Member:
(a) may be holding office invalidly; or
(b) has exercised his or her right to vote invalidly.

7. Board Members Potential Conflicts of Interest

7.1 In relation to a Board Member's potential contracts and conflicts of interest, a Board Member is not prevented from contracting with or holding any other office in UniCentre and:
(a) any contract or office is valid;
(b) the Board Member does not have to account to UniCentre for any profit only because of a fiduciary relationship;
if section 232A of the Corporations Law is complied with.

8. General Manager

8.1 The Council and UniCentre must jointly appoint and may jointly remove the General Manager, on any terms they agree, including any alternate General Manager.

8.2 The General Manager is also the chief executive officer of the Board.

8.3 UniCentre shall pay remuneration to the General Manager as agreed by the Council and by the General Manager.

9. Annual General Meetings

9.1 Subject to the Corporations Law, the annual general meeting must be held by the end of the seventh Teaching Week of the autumn session of the University.

9.2 The General Manager must give 14 days' prior notice of the annual general meeting.

9.3 The General Manager may give this notice by:
(a) displaying a notice on the official notice boards of UniCentre, or
(b) any other reasonable method decided by the Board.

9.4 The business of an annual general meeting is to:
(a) receive the financial statements, the Board Members' statement and report;
(b) the auditor's report; and
(c) to transact any other business which under these Articles of the Corporations Law which should be conducted at an annual general meeting.

9.5 The election of Elected Board Members are held by the procedure in the Election Regulations.

9.6 The General Manager is the returning officer for the election of Elected Board Members.

10. General Meetings

10.1 General Meetings may only be held during Teaching Weeks of the University, unless an emergency requires otherwise.
10.2 The General Manager must call a General Meeting on any date decided by the Board.

10.3 The General Manager must hold a General Meeting within 4 weeks if the General Manager receives a request which:
   (a) asks for a General Meeting to be held;
   (b) is signed by at least 20 Voting Members or by the Vice Chancellor on behalf of the University;
   (c) has the names of the Voting Members who signed the request written next to their signatures, and
   (d) includes the resolution(s) to be considered at the General Meeting.

10.4 The General Manager must give:
   (a) at least 14 day’s notice of a General Meeting, or if a special resolution is to be considered, then 21 day’s notice; and
   (b) notice of the business to be discussed at the General Meeting.

10.5 The General Manager may give notice of a General Meeting by the same way as an Annual General Meeting.

11. Proceedings at General Meetings

11.1 A quorum at a General Meeting is at least 21 Voting Members.

11.2 A quorum at a General Meeting convened by Members other than the University pursuant to section 227 of the Corporations Law, is at least 10% of the Voting Members.

11.3 Unless the Board decides otherwise only the Board Members, auditor and Voting Members are allowed to attend a General Meeting.

11.4 If a quorum is not present within 15 minutes from the scheduled time for a General Meeting the meeting is adjourned until such time and place as the Board displays on the official notice boards of UniCentre. If at the adjourned meeting a quorum is still not present within 15 minutes from the time of the meeting, then any General Meeting requested by Members is canceled (including their request), however any other General Meeting may proceed, even though a quorum may not be present. At an adjourned General Meeting which does proceed, all business conducted shall be valid as if a quorum was present.

11.5 The Executive Chair will be the Chair at each General Meeting. If the Executive Chair is not at a General Meeting within 15 minutes of the scheduled time for the meeting, the Deputy Chair will be the Chair. If neither the Executive Chair nor the Deputy Chair is present within 15 minutes of the scheduled time for the meeting, and a quorum is present, the Board Members present may elect one of their number to be the Chair of the meeting.

11.6 The Chair of a General Meeting is responsible for the general conduct of the meeting and to ensure that is held in accordance with the Standing Orders.

11.7 Only Voting Members who are present are entitled to vote.

11.8 Every resolution put to a vote at a General Meeting must be determined by the voices, a show of hands or a poll (as decided by the Chair).

11.9 If the votes are equal then the Chair has a casting vote.

11.10 At any General Meeting a declaration by the Chair which is minuted, is conclusive evidence of that fact without proof of the number or proportion of the votes recorded in favour of or against.

11.11 The Chair is the only judge of the validity of a vote at the meeting.

12. Seal

12.1 The seal must not be used without the authority of the Board.

12.2 When the seal is used it must be authorised by at least 2 Board Members signing the document to which the seal is being applied. One of these persons must be the General Manager.

13. Indemnity

13.1 As permitted by the Corporations Law:
   (a) each Board Member and officer of UniCentre or any related body corporate of UniCentre, is indemnified by UniCentre against any liability incurred by that person in that capacity;
   (b) the Board may pay premiums for a contract insuring a person (whether with others or not) who is a Board Member or officer of UniCentre or any related body corporate of UniCentre against a liability incurred by that person in that capacity; and
   (c) any premium paid is in addition to their remuneration.

We, the several persons whose signatures are subscribed, being subscribers to the Memorandum of Association, agree to the Articles.

Signatures, Names, Addresses and Occupations of Subscribers

DATED: 1997
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