## Calendar of Dates

### Session Dates

#### Summer Session

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures Commence</td>
<td>9 December</td>
</tr>
<tr>
<td>Christmas Recess</td>
<td>23 December - 5 January</td>
</tr>
<tr>
<td>Lectures Recommence</td>
<td>6 January</td>
</tr>
<tr>
<td>Examinations</td>
<td>8-16 February</td>
</tr>
</tbody>
</table>

#### Autumn Session

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation Week</td>
<td>24 February - 2 March</td>
</tr>
<tr>
<td>Lectures Commence</td>
<td>3 March</td>
</tr>
<tr>
<td>Easter Recess</td>
<td>31 March - 6 April</td>
</tr>
<tr>
<td>Lectures Recommence</td>
<td>7 April</td>
</tr>
<tr>
<td>Study Recess</td>
<td>16 - 20 June</td>
</tr>
<tr>
<td>Examinations</td>
<td>21 June - 6 July</td>
</tr>
<tr>
<td>Mid Year Recess</td>
<td>7 - 20 July</td>
</tr>
</tbody>
</table>

#### Spring Session

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures Commence</td>
<td>21 July</td>
</tr>
<tr>
<td>Recess</td>
<td>29 September - 12 October</td>
</tr>
<tr>
<td>Lectures Recommence</td>
<td>13 October</td>
</tr>
<tr>
<td>Study Recess</td>
<td>10 - 14 November</td>
</tr>
<tr>
<td>Examinations</td>
<td>15 November - 7 December</td>
</tr>
</tbody>
</table>

### Public Holidays

<table>
<thead>
<tr>
<th>Holiday</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia Day Holiday</td>
<td>27 January</td>
</tr>
<tr>
<td>Good Friday</td>
<td>28 March</td>
</tr>
<tr>
<td>Anzac Day</td>
<td>25 April</td>
</tr>
<tr>
<td>Queen’s Birthday</td>
<td>9 June</td>
</tr>
<tr>
<td>Labour Day</td>
<td>6 October</td>
</tr>
</tbody>
</table>

### Important Dates

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>HECS Census Dates and</td>
<td>23 December 1996</td>
</tr>
<tr>
<td>International Student Audit</td>
<td>31 March</td>
</tr>
<tr>
<td>Dates</td>
<td>31 August</td>
</tr>
</tbody>
</table>

### Enrolment

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day for Re-enrolments (postal)</td>
<td>3 January</td>
</tr>
<tr>
<td>Enrolment of New Undergraduates</td>
<td>28 January - 3 February</td>
</tr>
<tr>
<td>Last day for late Re-enrolments</td>
<td>21 February</td>
</tr>
<tr>
<td>Last day for Payment of Compulsory Charges of Re-enrolling Students</td>
<td>28 February</td>
</tr>
</tbody>
</table>

### Subject Withdrawal

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Day to Withdraw from:</td>
<td></td>
</tr>
<tr>
<td>Summer Session Subjects</td>
<td>10 January</td>
</tr>
<tr>
<td>Autumn Session Subjects</td>
<td>25 April</td>
</tr>
<tr>
<td>Spring Session Subjects</td>
<td>12 September</td>
</tr>
<tr>
<td>Double Session Subjects</td>
<td>1 August</td>
</tr>
</tbody>
</table>
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 of Wollongong occupies a large site at the foot of Mt Keira. It is 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. This latter institution had its origin as the Wollongong Teachers' College which was founded in 1962.

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

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.
University of Wollongong Calendar

There are 2 volumes of the Calendar:

University of Wollongong Undergraduate Calendar 1997
University of Wollongong Postgraduate Calendar 1997

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Facsimile: (042) 213477
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Switchboard: Monday to Friday 8.30 am - 5.00 pm
Student Enquiries: (Tel: 213927) Monday to Friday 9.00 am - 5.00 pm
Cashier: Monday to Friday 9.30 am - 4.30 pm

The University attempts to ensure that the 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 or 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. 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.

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.

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University of Wollongong

Typesetting: Academic Registrar’s Division
University of Wollongong

Printing: J.S. McMillan Printing Group
Lidcombe, NSW
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- Department of History and Politics
- Department of Modern Languages
- Department of Philosophy
- Department of Science and Technology Studies
- Department of Sociology
- Centre for Multicultural Studies

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- Department of Economics
- Department of Management
- Department of Marketing

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- Department of Mechanical Engineering

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- Department of Nursing
- Department of Psychology
- Department of Public Health and Nutrition
- Graduate School of Health and Medical Sciences

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- Department of Computer Science
- Department of Electrical and Computer Engineering
- Department of Mathematics
- Department of Information and Communication Technology

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- Department of Chemistry
- Department of Physics
- School of Geosciences
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Elected by the Legislative Assembly
Mr Colin Markham, MLA

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Roderick John Oxley, BBus AssDip Local Govt Admin Mitchell, CPA, FAIM

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Mr John Steinke, BA, MA CTA

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Ms Ann Hodgkinson, BCom Qld, MEd Adv

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Associate Professor Robert G Castle

Deputy Chairperson of Senate
Professor John Golding

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Dr J McQuillton Department of History and Politics
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Associate Professor Rhonda Griffiths, Department of Nursing
Dr Robert Dunn, Department of Philosophy
Associate Professor William Zealley, Department of Physics
Professor Robert Barry, Department of Psychology Professor Charles Watson,

* Correct at time of printing including known appointments for 1997.
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Professor John Bern, Department of Sociology

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Associate Professor Tim Turpin, Centre for Research Policy

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Vacant

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Dr Susan Dods
Dr David Simpson
Associate Professor Marguerite Wells

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Ms Diana Kelly
Dr Barbara Cornelius
Associate Professor Celia Romm
Ms Mary Kaidonis

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Gregor Cullen
Dr Frances Dyson
Ms Janys Hayes
Ms Liz Jeneid
Associate Professor Ronald Pretty
Dr Diana Wood Conroy

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Ms Yvonne Kerr
Dr Nita Temmerman
Dr Wilma Vialle
Professor Ron King
Associate Professor Barry Harper
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Associate Professor Tara Chandra
Dr John Montagner
Associate Professor Dennis Montgomery
Professor Bagh Singh

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Associate Professor Beverly Walker
Dr Ux Feng Huang
Ms Margaret Wallace
Professor Dennis Calvert

Faculty of Informatics
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Associate Professor Grahame Morris
Dr Philip Laird
Dr Ian Pirie
Professor Sid Morris

Faculty of Law
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Mr Luke McNamara
Mr A Kelly
Vacant

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Associate Professor Ted Steele
Dr Margaret Shell
Dr William Price
Dr Kristine French

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Mr Derek Hanley
Ms Julie Fredericks
Ms Lylea McMahon
Ms Laura Wilson

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1976
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Professor Rupert H Myers, KBE, FTS, MSc, PhD Melb, Hon DSc, Hon LLD Strath, Hon DEng N’de, Hon DLitt UNSW, FIMMA, FRACI, FAusIMM, FAIM, FAICD, Hon FIEAust
David E Parry, BE Syd
Sir Robert Webster, CMG, CBE, MC Hon DSc NSW, FASA

1977
DLit: Edgar Beale

1978
DSc: Sir Ian Munro McLennan, KBE, CBE, BEE, Hon DSc Melb and N’de (NSW)

1980
DLit: Walter Pike, MA DipPA Lond, DipEd Cumb, AFAIM, MACE

1981
DLit: Lindsay Michael Birt, CBE, BAGrSc BSc PhD Melb, DPhil Oxf

1984
DLit: Sir Richard Kirby, LLB Syd

1985
DSc: Thistle Yolette Stead
DLitt: Sir Roden Cutler, VC, KCMG, KVO, CBE, RSL, BSc, Tas, Hon DSc Melb and N’de (NSW), Hon DLitt NE, Hon FCA

DCA: John Henry Antill, OBE, CMG
MA Luigi Strano
(Fons):

1988
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Daniel Tague, DipElec/ Mech Eng, CEng

1989
DLit: Brian Somerville Gillett, BA DipEd Syd, ACES

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1990
DSc: Franco Belgiojno-Nettis, CBE AM, BSc Turin
1978 Austin Keane, MSc Syd, PhD UNSW, DSc

1981 Kenneth Alan Blakey, BA NZ, MSc Lond, BCom Melb, DPhil Oxf

1985 Geoffrey Brison, MSc Melb, PhD Sheff, FIM, MAusIMM, CEng

1986 R Barry Leal, MA DipEd Syd, PhD Qld

1988 Brian H Smith, BE PhD Adelaide, MEng, AIME, FAIME

1990 Jan William Chubb, MSc DPhil Oxf

1993 J Lauchlan Carter Chipman, MA LLB Melb, BPhil, DPhil Oxf, DipTertiaryEd NE

1995 James S Hagan, BA DipEd Sydney, PhD ANU

1996 Hugh Bradlow (Eng) Cape Town, DPhil Oxf, FTS, FIEAUST, MIEE, MIEEE, CEng, Murray Wilson MA NZ, MA WIS, PhD Melb
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*For Faculty Staff, see each Faculty entry.
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Martin Bramston

Maintenance Supervisor
Eric J Young

Security Manager
David Anderson

Cleaning Supervisor
Iain Murray

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Mary Youssif, BCom MStudAccy, FCPA ACIS

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Paul Murphy, BBus

Systems Accountant
Douglas G Simpson, AssocDipComAppl

Supervisor, Purchasing and Supply
Ross Meaker

Budgets Officer
Chan Shah, BCom, CPA

Accountant
Michael Ramsey, BBus Nepean, ACA

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Goran Anderson, BMath

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Ian C Piper, BSc

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Technology Deployment
Technology Deployment Co-ordinator
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Trevor Collan

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Mark Hall, BA NE
Michele Mildenhall

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Community Relations
Manager
Peter Rose, BA Macq, ACES

UNIVERSITY OF WOLLONGONG
FOUNDATION LIMITED AND CO-
OPERATIVE EDUCATION PROGRAM,
FRIENDS OF THE UNIVERSITY OF
WOLLONGONG
Executive Officer
David T Muscio, BA DipEd UNSW, MA
MEd Syd, DipContEd NE, DipComm,
MACE, MACEA, ACES

Consultant
Brian S Gillett, BA DipEd Syd, HonDLitt
ACES

International Office
Manager
Peter R Ball, BA Asian Studies ANU, DipEd
CCAE

Senior Administrative Officers
Miranda Baker, BA(Hons) UNSW, MBA
Patricia Tindall, BA ANU

Administrative Officers
Susan Monnier, BCom
Lily Soh, BSc UNSW

International Students' Adviser
Denise Hull, BA

Marketing
Manager
Andra Mednis, BA, MA, MCom UNSW

Administrative Officers
Megan Armstrong BA VisArts, SCAE
Gillian Curtis
Elisabeth A Hilton, DipPE Lond IE

RECREATION AND SPORTS ASSOCIATION
Executive Director
Paul I. Manning, BEd Syd, MMgt

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

Facilities Officer
Mary Sparks, GDipCom AssocDipSpSc

Recreation Officer
Grant Jacobs, BAppSc

Aquatic Centre Managers
Rob Wilkinson, BAppSc
Bruce Power, BAppSc

Financial Manager
Ros Robinson, BCom

STUDENT ACCOMMODATION

CAMPUS EAST, KOOLOOBONG,
GUNDI & GRADUATE HOUSE
Head
Robyn Wilkes, BA NE

Office Manager
Everest Ho, BBA Tsinghai, 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
Philip Dutton, BA Monash, MEd N'de(UK),
MACE, JP

House Manager
Sandra Comerford

Senior Resident
George Mickhail, BCom GradDip(Mgmt Sc)
Cairo, MSc Ec (Info Sys) LSE, MBCS
Ceng UK, LIDFM MORS UK, AIEE USA

UNIVERSITY UNION

General Manager
Nigel Pennington, BA Qld, AIM, AITEA

Assistant General Manager
Peter Bottele, BCom

IILAWARRA TECHNOLOGY
CORPORATION LIMITED
Managing Director
James W Langridge, BBus NSW IT
DipTertEd , MEdAdmin NE

Company Secretary/Finance Manager
Stuart McDonell, BCom UNSW, ASCPA

INTERNATIONAL EDUCATION
Manager
William McGaw, BA Qld, MA Macq

COMMUNICATIONS DIVISION
Manager
Peter White, BSc (Hons) BE (Hons) Syd,
PhD UNSW

INTERNATIONAL BUSINESS
DEVELOPMENT
Manager, International Consulting
Kaye Cox, BEd, AssDipAdultEd UTS

Manager, Government Business &
University Liaison
Canio Fierravanti, BCom

ADVANCED MANUFACTURING
TECHNOLOGIES
Manager
Luke Nadj, BSc NSW, JP FRACI

CONSERVATORIUM OF MUSIC
Director
Penelope W Chapple, BMus Syd, DipEd
STC, LTCL Lond, AMusA

CME Co-ordinator
Karen Unicomb, DipMusEd, AMusA

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

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

Visiting Research Fellow
Associate Professor Xieli Li, BSc Peking,
MSc PhD Tsinghua
Manuel Esquinas, BA Madrid

Financial Manager
Ros Robinson, BCom
The Library provides information services which support and enhance the teaching and research activities of the University. Collections include the Main Library, the Law Library, the Curriculum Resources Centre and the University Archives. The combined collections contain in excess of 500,000 items including books, serials, audio-visual materials and archival sources. In addition to these collections, access to information held in libraries throughout the world is available through inter-library loan and data base searching facilities.

Most items from the collection, except material where restrictions have been imposed, may be borrowed. All University of Wollongong staff, students and graduates may borrow from the collection. Reciprocal arrangements are available for University of Wollongong staff and students to borrow from some other university libraries.

Borrowing rights will be suspended when items are overdue from loan. Overdue items attract fines. The use of inter-library loans and database searching facilities may require the payment of fees for service. Details of regulations, borrowing conditions and other library services are available from the Information Desk in the Library.

Library hours of opening from March to December are: Monday to Friday 8.30 am to 10.00 pm; Saturday 9.00 am to 5.00 pm; Sunday 1.00 pm to 5.00 pm. Curriculum Resources Centre: Monday to Thursday 8.30 am to 5.00 pm; Friday 8.30 am to 4.00 pm.

For further information phone 214548.

Hours may vary for Summer session, public holidays and during vacation. These variations are displayed on noticeboards in the Library.

### UNIVERSITY UNION

The University Union commenced operations in 1964. It was created to provide a "community centre" for the University. The creation of opportunities for social and cultural interaction and development of the members is a key role of the Union. Facilities include food and beverage services, conference and meeting rooms, medical, dental and optometrical services, child care, assistance to affiliated clubs and societies, a range of shops and other miscellaneous services.

#### Membership and Fees

All students pay an annual fee to the Union, unless they are Life Members of the Union (6 years as financial members) or staff of the University.

#### Management

The Union exists under a constitution which vests control of the Union in a Board of 20 persons being:–

- 10 Union members (staff, students and life members)
- 4 University Council appointees
- 6 student representatives
- 2 staff representatives
- 1 past president

Annual elections are usually held in August. All students and staff are eligible to stand for a position on the Board, which has established a number of committees to deal with specific areas of its operations. The Union General Manager is directly responsible to the Board as General Manager of the Union. In the main Union complex, the following services are housed:

<table>
<thead>
<tr>
<th>Service</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food and Beverage</td>
<td>Union Food Hall</td>
</tr>
<tr>
<td>- Bistro Gallery</td>
<td></td>
</tr>
<tr>
<td>- Tavern Bar and Coffee Lounge</td>
<td></td>
</tr>
<tr>
<td>- The Glass House - Coffee Lounge</td>
<td></td>
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<tr>
<td>- Asian-style cuisine</td>
<td></td>
</tr>
<tr>
<td>- Duck Inn - Burger Bar</td>
<td></td>
</tr>
<tr>
<td>- Lounge Bar</td>
<td></td>
</tr>
<tr>
<td>- University Club Lounge</td>
<td></td>
</tr>
<tr>
<td>- Keira View Cafe and 'Food for Thought' restaurant</td>
<td>in the McKinnon building</td>
</tr>
<tr>
<td>- Retailing</td>
<td>Union Retail Centre and Bookshop</td>
</tr>
<tr>
<td>- National Australia Bank</td>
<td>Telephone: 266940</td>
</tr>
<tr>
<td>- Illawarra Mutual Building Society</td>
<td>Telephone: 214733</td>
</tr>
<tr>
<td>- General Union Function Centre</td>
<td>Telephone: 213781</td>
</tr>
<tr>
<td>- Cinema/General Purpose Hall</td>
<td>Meeting and Conference Rooms</td>
</tr>
<tr>
<td>- Hair Care</td>
<td>The Cutting Crew (Telephone: 213111)</td>
</tr>
<tr>
<td>- Medical Centre</td>
<td>STA Travel Service (Telephone: 262199)</td>
</tr>
<tr>
<td>- STA Travel Service</td>
<td>Telephone: 260277</td>
</tr>
<tr>
<td>- Student Welfare</td>
<td>SRC Offices (Telephone: 214202)</td>
</tr>
<tr>
<td>- Student Support Services</td>
<td>- Counselling (Telephone: 213446)</td>
</tr>
<tr>
<td>- - Careers Advice</td>
<td>- Telephone: 213324</td>
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<tr>
<td>- - Accommodation Office</td>
<td>- Women’s Room</td>
</tr>
<tr>
<td>- - Chaplaincy</td>
<td>- Telephone: 214555</td>
</tr>
<tr>
<td>- University Security</td>
<td></td>
</tr>
<tr>
<td>- Telephone: 214548</td>
<td></td>
</tr>
</tbody>
</table>

#### Clubs and Societies

Campus clubs and societies are able to affiliate with one centralised body. The University Union and the Students’ Representative Council (SRC) have amalgamated club funding to establish the Clubs and Societies Support Office. Funding is administered by a committee and support is offered to clubs via the Union’s Clubs and Societies Officer, whose office is situated on the ground floor, Union Arcade.

#### Activities Program

The Union runs a comprehensive activities program. In the course of the year, the program will include:

- lunchtime music events
- art exhibitions
- popular music concerts
- weekly movie screenings of contemporary movies
- clubs and society displays
- theme weeks, eg International Week, Union Welcome Week.

#### Union Medical Service

A comprehensive medical centre, including general practitioners, dentist and optometrist, is located in the Union Arcade. All services are provided by qualified professional staff in modern, air conditioned premises using the latest technology. Both general practitioner and optometrist bulk bill holders of a Medicare Card at the time of service.

The dental service, by arrangement with the University Union, offers services at attractive fee scales.

#### Union Child Care Centre

Kids’ Uni, a University Union facility, is a child care centre on campus which offers child care facilities to both students and staff. The centre provides a happy and stimulating atmosphere where children can stay while their parents are at class and/or work.

Fee relief is available depending on family income. Parent involvement in the daily activities is welcomed but not mandatory. The centre is open from 8.00 am to 6.00 pm Monday to Friday. Kids' Uni cares for 58 children in the 0-5 year old age group. We also have an After School and Vacation and service for 20 children (5-12 years). Qualified Early Childhood staff are in attendance. A new long day care centre is being established in 1997. This Centre will be located adjacent to the existing Kids Uni. Waiting lists will be co-ordinated through a single booking system. Preference for enrolment goes to children who were enrolled at Kids' Uni in the previous calendar year. Only 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 213072 for information.

Application forms and information can be obtained from the centre.

For further information contact the Director on 213072.

#### University Family Day Care

This service provides supervised care for children in the homes of authorised, carefully selected care providers.

The service promotes the developmental, social, emotional and intellectual needs of children.

A co-ordinator services the scheme. This involves regular visits to 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.

For further information contact the Co-ordinator on 213072.
RECREATION AND SPORTS ASSOCIATION

All students pay compulsory fees to the Recreation and Sports Association (RSA) which automatically gives them full membership rights.

Membership entitles students to reduced rates on all facilities and most programs. Students are required to produce their student identification card to obtain the member rate.

The RSA’s aim is to provide a broad range of healthy recreational experiences via its facilities and programs. Students may participate in recreation programs through lunchtime sport, general interest courses and outdoor adventure activities. For those interested in fitness, the RSA offers a range of activities including aerobics, step and circuit classes, weight training and fitness assessments.

The University Recreation Centre comprises a 2 court stadium which caters for basketball, badminton, volleyball, indoor soccer and many other activities. In addition, the RSA run a 50 metre outdoor heated Aquatic Centre, a synthetic hockey surface, ovals, and well equipped weights area. We also have a new purpose built aerobics room overlooking the pool and a new 4 court tennis complex, 3 squash courts and a climbing wall.

Students may also join any of the constituent clubs of the RSA, these include:

- Athletics
- Badminton
- Basketball
- Cricket
- Triathlon
- Hockey
- Netball
- Outdoors Club
- Rugby Union
- Sailing
- Swimming
- Tennis
- Touch Rugby League
- Underwater Hockey
- Volleyball
- Waterpolo
- Windsurfing

All enquiries to the Recreation Centre, Building 13. Open 7 days, telephone 214700 or ext 3561/3562, or 4780.

CHAPLAINCY SERVICE

A Chaplaincy Service is provided within the University for the benefit of students and staff. The Service offers fellowship, personal counselling and guidance, and leadership in biblical and doctrinal studies and in worship. The visiting Chaplains maintain close liaison with student religious societies. The visiting Chaplains may be contacted in the Chaplain’s office or by phoning 213534. The office is located on the first floor of the Union Building near the Counselling Centre.

Anglican: Rev S Edwards
1 Baker Crescent
Figuere 2500
Tel: 258644
Mbl: 018427849

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
UNIVERSITY SUPPORT SERVICES

UNIVERSITY COUNSELLORS

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.

The counsellors can deal with a wide range of personal difficulties such as feeling stressed, anxious or depressed; wanting to become more confident and assertive; family and relationship conflicts; grief and bereavement issues; and emotional stresses associated with studies. The Counsellors can also assist with other problems such as eating disorders, alcohol and other drug problems, racial and sexual harassment and surviving incest.

Personal development programs are offered in areas such as stress management, assertiveness training, self-confidence building and preparing for university. The Counselling Service organises networks and programs which are designed to assist particular groups of students develop self-confidence and succeed at university.

Networks are organised for mature age students, and there are also support groups for people with eating disorders and incest survivors.

Different types of orientation programs are organised at the beginning of the academic year. These programs are provided for school leavers, mature age students, postgraduate students and students transferring from other universities and TAFE. Contact the Counselling Service for more information.

To make an appointment to see one of the counsellors or enrol in a program, phone 213445, or call in at the office located on the third floor of the Union Retail Centre. The service is free and completely confidential.

STUDENT EQUITY

Student Equity seeks to facilitate access to the University for students who are traditionally under-represented in higher education and to promote inclusion and provide appropriate support for students in an environment of opportunity, equal access and social justice.

Student Equity is involved in student networks such as Women Postgraduate (Research) Students; Standards, for students with disability; Rural and Isolated Students; Women in Engineering Network; and Women in Honours groups. Orientation programs for Rural Students and Students with Disability are arranged for first year students. For further information regarding these groups and student equity programs contact the Student Equity office on (042) 214 942.

Student grievances which relate to discrimination on the grounds of sex, race, age, marital status, sexuality and disability may be referred to the Manager, Student Equity.

DISABILITY SERVICES

The Student Disability Adviser 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. Different services are available for students with disabilities which includes: 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 Student Disability Adviser. You can contact the Student Disability Adviser by phoning: (042) 214352 or fax: 214942 or call in at the Student Equity office located on the ground floor of the Library.

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 Student Disability Adviser or Student Equity office.

ABORIGINAL EDUCATION CENTRE

The Aboriginal Education Centre (AEC) was established in 1984 to provide 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.

Since the establishment of the Centre, there has been an increase in the number of Aboriginal and Torres Strait Islander students enrolled in (and graduating from) undergraduate and postgraduate courses.

THE CASUAL EMPLOYMENT OFFICE

The Casual Employment office is located on the ground floor of the Union Building (Building 11). The office endeavours to find casual and part-time employment opportunities for students. For more information contact Paula Moss, Casual Employment Officer, on 213216

CAREERS AND APPOINTMENTS SERVICE

A Careers and Appointments Service is located on the 3rd floor of the Union Building. Individual and group advice is given and a careers library is maintained.

Employer Campus Interviews

Employers visit the campus in April, May and September 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 &
Appointments office. Information is also
placed on the NetNews Bulletin Board
UOW Careers. A mail out of information
goes to all final year students each year.

Job Preparation (Interviews/Resumes)
Workshops are conducted throughout the
year to assist students to prepare for the job
search.

Career advice and career counselling is
supplied through an appointment system.
For enquiries telephone 213324 or 213325,
internal extensions 3324 or 3325 and
Facsimile 262399.

ACCOMMODATION

COLLEGIATE

Each residential college has traditionally offered students accommodation supportive of the student's academic goals. They may be thought of as offering accommodation with "extras". Both provide meals and a cleaning service for residents. They have on-site management, and offer students personal and academic support geared towards student independence. The residences are designed to provide a supportive environment for residents and aim to develop a sense of community among residents.

Breakfast and dinner are provided daily in the dining room of each residence and on weekdays at breakfast, residents may make a sandwich lunch. Students must provide their own pillow, sheets and blankets. (These can be loaned to overseas students by the residences for the first few weeks until the student has time to purchase them locally.) Individual student rooms are cleaned weekly. Laundries with washers, dryers and exterior clothes lines are supplied for students to do their own laundry. Computer Rooms in each house provide a variety of computer hardware and software for student use. In addition, there are telephone and data access points in student rooms enabling students to make and receive telephone calls at any time, and to access university networks as well as Internet. The Residents' Association organises social activities, maintains student keys and games room equipment and provides a selection of daily newspapers. On-site management of the residences and pastoral care of the residents is provided by professional staff during business hours, and by postgraduate house tutors after hours. House tutors also help organise residential study groups and are available for informal academic assistance. A shuttle bus service transports residents to and from the main campus during week nights.

International House

Hindmarsh Avenue, North Wollongong, the closest of the university's Halls to the main campus, accommodates 200 students in single and shared study/bedrooms. Accommodation is for a 40-week academic year, including recess periods. Accommodation with reduced services is also generally available throughout December-February recess. This is sometimes an advantage for overseas students who wish to remain in residence during the long summer recess. Fees for 1997 are $6,200 for a single room, and $5,000 for a shared room. Both are due in two equal instalments in February and July.

Weerona College

Throsby Drive, a 20 minute walk from campus, accommodates 200 students in 130 single study/bedrooms, and 70 in shared rooms (2 students to a room). Shared rooms are cheaper than single rooms. Accommodation is for the 40 week academic year. Fees for Weerona for 1997 are $6,200 for a single room, and $5,000 for a shared room. Both are payable in two equal instalments due in March and August.

Beaton Park Leisure Centre - a facility of Wollongong City Council - with a heated swimming pool, tennis and squash courts, basketball stadium and sports medical clinic and international class athletics track is located next to Weerona College.

Admission to Halls of Residence

Each Residence is administered separately from non-collegiate accommodation by the Head of International House and the Head of Weerona College. Students wishing to live in the Halls of Residence as a first preference will ordinarily be interviewed by the Head of the preferred Residence. Inquiries about the Halls can be made directly to Cynthia Halloran, for International House, (042) 299711 (Facsimile (042) 264370) and Philip Dutton for Weerona College (042) 284022 (Facsimile (042) 296136).

NON COLLEGIATE

Campus East

Cowper Street, Fairy Meadow, is a 40 minute walk from campus (or a shuttle bus service is available). Campus East accommodates 424 students in single study/bedrooms, and meals are served in the dining hall located on site. Students must provide their own pillow, sheets and blankets. Fees for Campus East for 1997 are to be announced and are usually payable in two equal instalments. Tenancy is for a 40 week period (academic year including recesses).

Kooloobong

Northfields Avenue, at the western end of the campus accommodates 190 students in 38 furnished houses and apartments. Residents of Kooloobong live independently in individual houses and apartments of 5 students, doing their own cooking and cleaning. Desk, bed, wardrobe, bookshelves in study/bedrooms; refrigerator, stove, cooktop, microwave oven in the kitchens; washing machines in laundries; and living room and dining room furniture is provided. Residents provide their own bed linen, cooking pots, crockery, cutlery, cleaning equipment and room heater, if required. Tenancy is for a 40 week period (academic year including recesses). The advantage of living at Kooloobong is that a student can be very independent, and can do his or her own cooking. Since students in these houses have to live together on good terms, acceptance of students for residence at Kooloobong is usually done as a group; five students who are already friends and compatible will ask to share a house together. Residence at Kooloobong is ordinarily not available to first year students. Fees for Kooloobong for 1997 are to be announced and are payable in two equal instalments.

Gundi

Gipps Street, North Wollongong, accommodates 78 postgraduate students in four furnished town houses. Residents of Gundi live independently in individual apartments of 2 or 6 students, doing their own cooking and cleaning. Desk, bed, wardrobe, study chair in study/bedrooms; refrigerator, stove in the kitchen; washing machine in the laundry and a communal dryer; living room and dining room furniture is provided. Residents provide their own bed linen, cooking pots, crockery, cutlery, cleaning equipment and room heater, if required. Tenancy is for a 40 week period (academic year including recesses). Fees for Gundi for 1997 are to be announced and are payable in two instalments.

ACCOMMODATION OFFICE

The University has an Accommodation Officer who assists students wanting to find private accommodation. Paula Moss, can be contacted by telephoning (042) 213216.

General

Private accommodation is usually available in the suburbs around the campus. With rooms costing approximately $60 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.

TRANSPORT

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.

**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.

**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.

**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 and three other subjects. All potential recruits must also be Australian citizens. The Regiment parades on a Wednesday evening and the training schedule is designed to avoid clashes where possible with the study requirements of the academic year. Officer training provides training in decision making, management and organisation.

Further enquiries should be made to the University of Wollongong Company, UNSWR, Military Road, Port Kembla 2505. Telephone (042) 741861 between 8.00 am and 4.00 pm weekdays or Wednesday evenings from 7.00 pm to 9.00 pm.

**EXTERNAL RELATIONS**

**FRIENDS OF THE UNIVERSITY OF WOLLONGONG ASSOCIATION**

This association which was constituted in 1993 pursues its mission -

“To create and enhance, through the Friends' unique access to both the University of Wollongong and the local community, understanding, pride, enthusiasm and support for the role and achievements of the University”.

The association involves members of the community and the University who are willing to help achieve this mission. 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. Managed by a board of both University and community representatives, the Association is also assisted in planning events by its Community Involvement Team.

For further information contact the Executive Officer on (042) 213073.

**ALUMNI ASSOCIATION**
The Alumni Association offers a means to graduates, diplomates and former staff of the University (who are the alumni) to remain in contact both with the University and with each other. These people have the potential to be the University's best ambassadors in the community and they themselves have much to gain by keeping in touch.

Alumni Association members receive the University's alumni magazine, *The Outlook*, twice a year and are invited to reunions and other functions as they occur. Several chapter groups, eg Engineering, Commerce, Education, Shoalhaven and the Campus Chapter as well as some located overseas, are now operational and they organise social and other activities.

Associate Membership of the Alumni Association is open to current students and staff (at a subscription rate of $25.00 per annum or $95 for 5 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 which can be very helpful on a professional level.
POSTGRADUATE SCHOLARSHIPS

Doctor of Philosophy (PhD) or Honours Masters (Research)

AUSTRALIAN POSTGRADUATE AWARDS (APA)

A number (28 in 1996) of Australian Government Postgraduate Awards (APA with Stipend) are available to students undertaking full-time post-graduate 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 University 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. 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 post-graduate 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 the Office of Research by 31 October.

Further enquiries may be directed to the Office of Research, University of Wollongong, Second Floor, Administration Building (telephone (042) 214323).

CONDITIONS OF AUSTRALIAN POSTGRADUATE AWARDS 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 is determined by the degree in which the candidate is enrolled, satisfactory progress and submission of annual progress report, is as follows:

- 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;
- a PhD degree candidate may hold an award for three years from the commencement of studies or until the date of submission of the thesis, whichever is earlier.

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 will 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:

- the period abroad will not exceed twelve months;
- adequate supervision of the scholar’s research program abroad has been arranged by the University before departure;
- the scholar will remain enrolled at the
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 1996 stipend was $15,364 (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 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.
ADMISSION

Application forms for enrolment are obtainable from the Student Enquiries Office, Ground Floor, Administration Building.

Applicants seeking enrolment in any postgraduate course are advised to contact the Head of the appropriate Department/School to discuss research interests, course availability, suitability of qualifications held, the availability of facilities for research in particular areas and the subjects on offer, as appropriate.

Applications for admission close on 31 October. However, late applications will be considered if places are available.

ENROLMENT

No enrolment will be accepted from new students after the end of the second week of Autumn session or the end of the second week of Spring session, except with the express approval of the Vice-Principal (Administration) or the Academic Registrar and the Head of the appropriate Department/School.

RE-ENROLMENT

Re-enrolment forms will be sent to re-enrolling students at the end of the year with instructions concerning the next year's re-enrolment procedure.

Re-enrolment forms will not be accepted after 21 February 1997 except with the approval of the appropriate Dean and the Deputy Vice-Chancellor.

Students who have completed the final examinations, but have a thesis or project still outstanding are required to enrol and pay any compulsory charges. However, when the student submits the thesis for examination before the end of the fourth week of Autumn session, he/she will receive a refund of the student charges on the same basis as if he/she had notified the University of withdrawal from the course.

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.
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 videoconference;
- On-site courses at the University Centre in Clarence Street Sydney;
- PAGE (Professional & Graduate Education) Consortium via SBS TV;
- 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.

For further course details and information, please contact:

University of Wollongong
Office of Postgraduate & Continuing Education
Northfields Avenue
WOLLONGONG NSW 2522
Telephone: (042) 213201
Facsimile: (042) 21 4880
E-mail: postgrad@uow.edu.au

WOLLONGONG DISTANCE EDUCATION PROGRAM

All of the programs offered by the WDEP 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.

Each subject consists of packaged resource materials and is supported by specialist academic co-ordinators. Most programs comprise a television component with video tapes posted directly to students.
Applicants should provide proof of English proficiency with their application for admission otherwise the University will require applicants to undertake one of the above tests prior to admission. The University reserves the right to increase the standard as set out above in individual cases.

The University of Wollongong offers 'English Language Intensive Courses for Overseas Students' through the Wollongong English Language Centre 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. International students often seek assistance with settling in, homesickness, bad news from home or emotional stress which may arise from the pressures of study or problems at home. The International Student Adviser can provide advice on a wide range of welfare problems or difficulties with government departments. The office also coordinates the International Friendship Program to facilitate links between students and the local community.

POLICY ON FEES REFUNDS 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 a delegated person, after consideration of the application and documentation determines that exceptional circumstances apply.

2.2 Refund Amount

2.2.1 If a request for a refund is given to the University four or more 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.

2.2.2 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).

2.2.3 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).

2.2.4 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

3.1 If a student can provide evidence of having been granted permanent resident status before the start of session, a refund of that session's fees
will be granted. This evidence must be provided before the start of session.

3.2 If a student receives notification of their permanent resident status on or after the first day of session, no refund will be made for that session.

3.3 Official notification from the Department of Immigration will be accepted as documentary evidence and the date shown thereon will apply.
The following Rules are contained in this section:

1. Course Rules
2. Assessment and Examination Rules
3. Campus Access and Order
4. Code of Conduct - Library
5. Student Discipline
6. Use of University Computing Facilities

POSTGRADUATE COURSE RULES

QUICK REFERENCE GUIDE

GENERAL

003 The major terms used throughout these Course Rules are explained in this Section

004 How do I qualify for admission?
Before you can commence university studies you must be approved for admission. This section outlines how you qualify and register for admission.

005 What do I need to know about enrolment?
Each year students are required to enrol, either on a sessional or annual basis, in subjects relevant to their proposed degrees. This section outlines requirements you need to consider when enrolling.

006 How do I find out which subjects I should enrol in?
The subjects in which you are permitted to enrol for each course are listed in the "Schedules" (see General Index at end of Calendar for reference to Faculty Schedules).

007 May I change courses or vary my enrolment?

008 Can I withdraw from or change subjects after I have enrolled?
Conditions and time limits for withdrawal from subjects. (This section relates to course work students only.)

009 Requirements for Theses and Minor Theses. (This section relates to students undertaking research subjects only.)

010 How is my performance assessed?
See also - Code of Practice, Assessment (p 53)

011 Will I be permitted to enrol next year?
Check carefully. Failure to gain the specified credit points may result in loss of registration in the course.

012 I have completed subjects towards another qualification. What subjects can I count towards my present course?

013 Can I take leave from my studies?

014 I have completed all the subjects for my course. Are there any other criteria I must meet before I can receive my award?

015 What happens to the work I submit as part of my course?

016 The University Council is the ultimate governing body. Interpretation and enforcement of course rules are subject to Council approval.

017 What happens if the Rules change during my enrolment?

018 How may I appeal against a decision made under these rules?

PART 3A - GRADUATE CERTIFICATE RULES

3A02 What approved abbreviations do I use for my certificate?

3A03 What are the course requirements for a Graduate Certificate?

PART 3B - GRADUATE DIPLOMA RULES

3B02 What approved abbreviation do I use for my diploma?

3B03 How do I qualify for admission?

3B04 What are the course requirements for a Graduate Diploma?

3B05 I have finished my course, do I have to fulfil any other requirements before I can obtain my diploma?

PART 4 - MASTERS DEGREE RULES

402 What approved abbreviations do I use for my degree?

403 What are the course requirements for a Masters degree?

404 I have finished my course, do I have to fulfil any other requirements before I can obtain my degree?

PART 5 - HONOURS MASTERS DEGREE RULES

502 What approved abbreviations do I use for my degree?

503 What are the course requirements for an Honours Masters degree?

504 I have finished my course, do I have to fulfil any other requirements before I can obtain my degree?

505 Can I undertake outside work while completing my Honours Masters Degree?

PART 6 - DOCTORAL DEGREE RULES

602 What approved abbreviation do I use for my degree?

603 How do I qualify for admission?

604 What are the course requirements for a doctoral degree?

605 Can I undertake outside work while completing my doctorate?

PART 7 - DOCTORAL DEGREE BY PUBLICATION RULES

702 What approved abbreviation do I use for my degree?

703 How do I qualify for admission?

704 What are the course requirements for a doctoral degree by publication?

705 How is my doctoral degree by publication examined?

PART 8 - HIGHER DOCTORAL DEGREE RULES

802 What approved abbreviation do I use for my degree?

803 How do I qualify for admission?
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 Associate Diploma and Diploma Rules - Refer to the Undergraduate Calendar

Part 2 Bachelor Degree Rules - Refer to the Undergraduate Calendar.

(4) Rules for postgraduate courses are provided in:

Part 3A 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 1991.

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 associate diplomas, diplomas and 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 an associate diploma, 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) 'double specialisation' is an approved course leading to the conferral of one degree as a single award with double specialisations upon a candidate who has complied with the Course Requirements for degrees with double specialisations;

(i) '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;

(j) 'part time candidate' is a candidate who is not a full time candidate;

(k) 'external candidate' is a part time candidate registered for a course which has been approved for offer in an external mode;

(l) 'program' is the combination of subjects in which a candidate is enrolled in any one session or year;

(m) 'session' is one of the three periods, autumn session, spring session, summer session, in which subjects are offered each year;

(n) 'year' or 'academic year' or 'annual' refers to the period comprising autumn session, the following spring session and the following summer session;

(o) 'weeks of session' are the weeks counted from the beginning of a session and not including weeks scheduled as University recess;

(p) 'subject' is a self-contained unit of study identified by a unique number in the relevant Schedules;

(q) '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;

(r) 'thesis' is a research subject with a value of 48 credit points;

(s) 'minor thesis' is a research subject with a value of 24 or 36 credit points;

(t) '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 work-load of 28 hours over the duration of that subject;

(u) '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;

(v) 'sessional subject' is a subject, other than a research subject, offered during one of autumn session, spring session or summer session;

(w) 'double session subject' is a subject, other than a research subject, offered for the duration of two sessions, excepting as permitted by the provision of Rule 212;

(x) 'triple session subject' is a subject, other than a 100 level subject or a research subject, offered for the duration of three consecutive sessions;

(y) '100 level subject' is a subject at first year level;

(z) '200 level subject' is a subject at second year level;

(cc) 'Supervisor' is a person approved to advise candidates in a research subject;

(dd) 'Academic Adviser' is a person approved to advise candidates on programs and courses of study;
004. Admission and Registration Requirements

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

(a) an undergraduate award, 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) for 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)(b), (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 then subject to all relevant Rules and requirements.

(6) A candidate for a postgraduate course under Parts 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.

005. Enrolment Requirements

(1) During prescribed periods in each year, a candidate shall enrol in a program in accordance with requirements for a course after expiration of the maximum period of registration set out for that course in Attachment A following these Rules.

(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-requisite or co-requisite requirement may be waived by the Head;

(b) the candidate is not excluded by any restriction that may be imposed on the number of candidates to be enrolled in that subject;

(c) the subject is available in the nominated session or sessions;
Schedule Z1 for diplomas; associate bachelor degrees; and the degree of Bachelor of Laws either alone or as part of an approved double degree course, has a value that exceeds:

- 32 credit points for any autumn or spring session;
- 14 credit points for summer session;
- in any session of registration for a postgraduate course which either

(i) has a value that exceeds:
- 54 credit points for the autumn session and the spring session combined;
- 30 credit points for autumn session;
- 30 credit points for spring session;
- 14 credit points for summer session, or

(ii) exceeds a prescribed program for:
- a year by more than 4 credit points;
- autumn session by more than 6 credit points;
- spring session by more than 6 credit points;
- summer session by more than 2 credit points.

For the purposes of Rule 005(5), half the value of a double session subject shall be deemed to be taken in each of the two sessions during which the subject is offered and one third the value of a triple session subject shall be deemed to be taken in each of the three sessions during which the subject is offered. 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.

Variation of Enrolment for Subjects Other Than Research Subjects

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:

- Schedule Z1 for associate diplomas;
- Schedule Z1 for diplomas;
- Schedule Z2 for bachelor degrees; and
- Schedule Z3 for postgraduate courses.

Variation of Registration

(1) After consultation with an Academic Adviser a candidate may apply to the Vice-Principal (Administration) for permission to change registration from one course to another.

(2) Permission for a candidate to change registration is contingent upon any restriction that may be imposed on the number of candidates to be registered for a particular course.

Variation of enrolment associated with change of registration is contingent upon restrictions imposed by relevant provisions of Rules 005 and 008.

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.

The candidate may withdraw from a subject in a program by notifying the Vice-Principal (Administration), 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. Students withdrawal from subjects are advised to seek advice from an academic adviser before submitting this form.

(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 until the last day of the second week of the second session in which the subject is offered;

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 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;

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 006(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 the subject should the first session of offer be summer session.

(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.

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; and

(b) Heads may require students to 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 the subject concerned.

(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 an undergraduate 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.

(8) A candidate who satisfactorily completes a subject listed in the appropriate Schedule shall count only once the subject or the number of credit points attached to the subject in that Schedule towards the course.

(9) Except with prior approval, a candidate who satisfactorily completes a subject shall not count that subject, nor the number of credit points attached to that subject, towards a course unless that subject is listed in the appropriate Schedule.
Course Rules

011. Minimum Rate of Progress

(1) A candidate may enrol in a program in accordance with provisions of Rule 005 provided, for a candidate not in the first year of registration, 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 an undergraduate course is:
   (a) in the first year of registration, satisfactory completion of subjects having a credit point value of at least one 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.

(3) The required minimum rate of progress by a candidate in one of the postgraduate courses listed in Parts 3A, 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) (a) 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.

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

   (b) 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).

   (6) 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.

012. Advanced Standing

(1) A candidate who has completed, at an approved tertiary institution or other establishment, one or more subjects or other work approved for the purpose of this Rule may apply for such advanced standing as provided in Attachment E following these Rules.

   (2) With prior approval, a candidate may be permitted to enrol for a subject at another tertiary institution and, on satisfactory completion of that subject, have it counted towards a course of this University.

   (3) Except with approval, a candidate who has been granted specified credit for a subject or subjects satisfactorily completed at this University or elsewhere shall not be permitted to count substantially corresponding subjects towards a course of this University.

   (4) Except when advanced standing is granted, a candidate shall not be eligible to obtain standing towards a course by satisfactory completion at this University of a subject which corresponds substantially with a subject or subjects completed satisfactorily previously and counted towards a qualification at an approved tertiary institution.

013. Leave of Absence

(1) A candidate for one of the courses listed in Rules 102 or 202(a):

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

   (b) may be granted leave of absence for one year 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, and provided that the application is for a substantial medical, personal or other reason.

(3) A candidate for one of the courses listed in Rules 3A02, 302, 402, or 502 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.

(4) 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 complied with relevant parts of these Rules, satisfied any requirement set out in Attachment F following these Rules and is not indebted to the University.

   (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, excepting 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 other-wise 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 - ASSOCIATE DIPLOMA AND DIPLOMA RULES

PART 2 - BACHELOR DEGREE RULES

Part 1 and 2 are contained in the Undergraduate Calendar.

PART 3A - GRADUATE CERTIFICATE RULES

3A01. Preliminary

Part 3A 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, E, Z, Z2 and Z3 following these Rules.

3A02. Graduate Certificates and the Abbreviations

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

- Graduate Certificate in Adult Career Development GCertCareer
- Graduate Certificate in Business Information GCertBIS
- Graduate Certificate in Engineering GCertEng
- Graduate Certificate in Information & Communication GCertInfoTech
- Graduate Certificate in Management GCertMgmt
- Graduate Certificate in Migration and Development GCertMigrDev
- Graduate Certificate in Health Policy and Management GCertHP&M
- Graduate Certificate in Higher Education GCertHigherEd
- Graduate Certificate in History Education GCertHistEd
- Graduate Certificate in Total Quality Management GCertTQM

3A03. Course Requirements for the Graduate Certificate

To qualify for award of a graduate certificate, a candidate shall:

(a) accrue an aggregate of at least 24 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 Attachment Z3 following these Rules; and

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

PART 3B - GRADUATE DIPLOMA RULES

3B01. 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, E, Z, Z2 and Z3 following these Rules.

3B02. 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 GDipAdultEd
- Graduate Diploma in Arts GDipArts
- Graduate Diploma in Commerce GDipCom
- Graduate Diploma in Computer Based Learning GradDipCBL
- Graduate Diploma in Education GDipEd
- Graduate Diploma in Engineering GDipEng
- Graduate Diploma in Educational Studies GDipEdStudies
- Graduate Diploma in General Practice GDipGenPrac
- Graduate Diploma in Law GDipLaw
- Graduate Diploma in Mining Management GDipMinMgt
- Graduate Diploma in Natural Resources Law GDipNatResLaw
- Graduate Diploma in Nursing GDipNursing
- Graduate Diploma in Public Health GDipPH
- Graduate Diploma in Science GDipSc
- Graduate Diploma in Statistics GDipStat
- Graduate Diploma in Total Quality Management GDipTQM

3B03. 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.

3B04. Course Requirements for the Graduate Diploma

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

(a) accrue an aggregate of at least 48 credit points, including at least 6 credit points at a level other than 900 level, by the satisfactory completion of subjects approved by the Head and prescribed in one of the courses listed in the relevant Schedules in Attachment Z3 following these Rules.

* Subject to approval.

* Not offered from 1996.
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, E, Z, Z2 and Z3 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 Commerce (MCom)
- Master of Computer Science (MCompSc)
- Master of Creative Arts (MCA)
- Master of Engineering Practice (MEngPrac)
- Master of Education (MED)
- Master of Engineering Studies (MEngStud)
- Master of Information and Communication Technology (MInfotech)
- Master of Laws (LLM)
- Master of Mathematics (MMath)
- Master of Mining (MMinMgt)
- Master of Nursing (MNursing)
- Master of Policy (MPol)
- Master of Public Health (MPH)
- Master of Science (MSC)
- Master of Statistics (MStat)

403. Course Requirements for the Masters Degree

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.

501. Preliminary

Part 5 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, C, D1, D2, E, Z, Z2 and Z3 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 Commerce (MCom(Hons))
- Honours Master of Education (MED(Hons))
- Honours Master of Engineering (ME(Hons))
- Honours Master of Environmental Science (MEEnSc(Hons))
- Honours Master of Information & Communication Technology (MInfotech)
- Honours Master of Management (Mmgmt)
- Honours Master of Mathematics (MMath(Hons))
- Honours Master of Mining (MMinMgt(Hons))
- Honours Master of Nursing (MNursing(Hons))
- Honours Master of Science (MSC(Hons))
- Honours Master of Total Quality Management (MTQM(Hons))

503. Course Requirements for the Honours Masters Degree

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 Masters Degree of this University 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 selected from the relevant Schedules in Attachment Z3.

504. Conferment of Awards

(1) Awards shall be conferred in accordance with the relevant provisions of Rules 014 and 404(2) and (3).
504. Conferment of Awards

(1) Awards shall be conferred in accordance with the relevant provisions of Rules 014 and 504(2).

505. 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 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 relevant provisions of the General Rules and Attachments A, B, C, Z and Z3 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 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 may be accepted as a part time candidate for the degree; and

(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 Creative Arts, Doctor or Public Health or Doctor of Education 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 Z3 following these Rules.

702. Doctoral Degree and the Abbreviation

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

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) (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, 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 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 examination shall comprise examination of the submitted published work and an oral...
examination of the submitted published work and an oral examination on that work and on the general relevant field of knowledge to which it pertains and 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 Z3 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 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.

(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 (7) 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.

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

(a) four consecutive sessions as a full-time candidate; or

(b) eight consecutive sessions as a part-time candidate.

(4) 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.

(5) 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 eight consecutive sessions as a part-time candidate.

(6) 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 six 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.

(7) 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) a candidate who, before registration, was engaged upon approved study may be exempted from not more than two sessions; and

(d) in special circumstances, a
year to study at another institution provided that the work shall be supervised in an approved manner; and

(e) in exceptional cases, a candidate may apply to be exempted from not more than two of the sessions stipulated in Attachment A(7)(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 masters degree or a doctoral degree shall submit to the Head, a doctored degree must comply with the following 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.

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 through the Head 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 annually to Council, through the Head, a certificate signed by the candidate stipulating that the work has not been submitted for a degree to any other university or institution.

(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 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, printouts 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 10mm 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;

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

(c) the candidate be required to resubmit the thesis in revised form for examination after a specified
(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 Attachments Z1 and Z2

(Applications D1(2) and (3) refer to Bachelor Honours degrees)

(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 45% - 49%
  - Pass Conceded

- 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 pre-requisite, 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, 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

Sections E1. to E3. refer to undergraduate courses.

(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:
  - specified credit or exemption on the recommendation of the Head;
  - 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.

E4. Advanced Standing towards Postgraduate Courses

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

(2) Honours Masters Degree

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).

Sections F. & G. refer to undergraduate degrees and are contained in the Undergraduate Calendar.

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.

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;
A - double session subject offered in autumn session and the following spring session;
B - double session subject offered in spring session and the following summer session;
C - double session subject offered in spring session and the following autumn session;
D - summer session and the following autumn session;
X - triple session subject offered in autumn session and the following spring and summer sessions;
Y - triple session subject offered in spring session and the following summer and autumn sessions;
Z - triple session subject offered in summer session and the following autumn and spring sessions.

Z1. Schedules of Subjects for Associate Diplomas and Diplomas

Z2. Schedules of Subjects for Bachelor Degrees

Z3. Schedules of Subjects for Postgraduate Courses
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 whatever 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;
   (i) "Examination Supervisor" means a person authorised by the Vice-Principal (Administration) with responsibility for the supervision of a particular examination held by the University.

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 of these Rules, or an 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;
   (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 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 examination 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.

(d) No candidate shall be admitted to an examination room more than thirty (30) minutes after the commencement of the writing time of the examination.

(e) No candidate shall be permitted to leave the examination room before the expiry of thirty (30) minutes from the commencement of writing time of the examination.

(f) No candidate shall be re-admitted to the examination room after leaving it unless, during the full period of absence, the candidate is under approved supervision.

(g) Following the ten (10) minute warning given by the Examination Supervisor before the end of the examination, all candidates shall remain seated until the examination answer papers have been collected.

(h) Except for candidates who have left the examination room prior to the ten minute warning referred to in sub-clause (g) above, all candidates shall remain seated until all examination answer papers have been collected and the Examination Supervisor permits candidates to leave the examination room.

(i) Smoking is not permitted in the examination room.

(j) 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.

(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.

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 is deemed appropriate in determining the student’s overall results. Students should refer to the section on Special Consideration on the next page for more details.

Withheld (WM and WE) Results

Students may be granted a withheld result (i.e. WM or WE grade) on the basis of medical, compassionate or other circumstances (see section on Special Consideration).

Where so granted, students should contact the relevant Academic Unit immediately to ascertain assessment requirements. It is the student’s responsibility to make contact with the Unit and failure to do so may result in a fail grade being determined.

PROCEDURE FOR THE USE OF FOREIGN TRANSLATION DICTIONARIES IN EXAMINATIONS

1. Foreign Language Translation Dictionaries may be used only by candidates whose background is non-English speaking.

2. Such dictionaries may be used only by a candidate during the first three sessions after initial registration for a course at this University.

3. Such dictionaries may be used in all subjects, except where otherwise directed to the contrary by the relevant Head of Academic Unit.

4. Eligible candidates who wish to use such a dictionary must apply for permission on the application form no later than four weeks prior to the examination period for which approval is sought.

5. Eligible candidates who receive permission will be notified in writing by the University.

6. At the approved examination:

(a) the written approval to use the dictionary must be shown to the Examination Supervisor prior to entry into the examination room; and then

(b) the dictionary must be submitted for inspection by the Examination Officer prior to the commencement of the examination to establish its suitability, and to ensure that it is not marked in any way. The dictionary may be further checked at any time during the examination by staff in the examination room.

SPECIAL CONSIDERATION AND SUPPLEMENTARY EXAMINATIONS

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.

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; or

(b) a letter from the University Counselling Service or a professional counsellor of 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, 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 PC/FT 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 ie 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:
**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) liability was to be discharged, ie, either upfront 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 of offer for double or triple session subjects.

   If you are not satisfied with the outcome, you may then appeal to 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 not to reassess the academic quality of the work.

**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.
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 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 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 the University staff so designated by the Vice-Chancellor and Principal for the purposes of these Rules;

(v) "Members of Staff" includes, for the purposes of these Rules, all-time, part-time and casual employees of the University of Wollongong and its associated companies, centres, residential complexes and employees of the Union and its tenants, Sports Association, Students' Representative Council, Illawarra Technology Corporation and its tenants and other groups/bodies/organisations/companies as specified from time to time by the Vice-Chancellor and Principal for the purposes of these Rules;

(vi) "Students" includes full-time and part-time students of the University of Wollongong.

(vii) "Disabled Person" means a person who possesses an obvious visible disability or a disability supported by certification from a qualified medical practitioner or who is in possession of a valid "Disabled Persons Parking Authority" issued by an Australian or State Government Authority;

(viii) "Temporarily Disabled Person" means a person under a temporary disability supported by certification from a qualified medical practitioner.

PART II - ACCESS TO AND ORDER ON CAMPUS

1. Persons Eligible for Entry
Persons in the following categories may have access to the campus:

(i) a member of the University Council or of Convocation or a Fellow of the University;

(ii) a member of staff entering or remaining on campus in consequence of being an employee;

(iii) a student entering or remaining on campus in consequence of undertaking studies or research;

(iv) a person who holds a permit authorising entry to the campus and who has observed all conditions, if any, to which the authority contained in the permit is subject;

(v) a member of the Common-wealth or State Police Forces requested by an authorised person to enter and remain on the campus for the purposes of protecting persons or property; and

(vi) a person who otherwise has valid reason to be on the campus, provided entry has not been prohibited by an authorised person.

2. Traffic Access

1. 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 vehicle permitted to enter from time to time by an authorised person may have access to the campus.

2. All persons having access to the 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.

3. All vehicles and bicycles which have access to the campus shall be driven and parked in accordance with these Rules and the directions of authorised persons.

4. 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) or bicycle while travelling, standing or parked on the campus.

3. Identification Cards
All members of staff of the University and students are issued with Identification Cards which must be carried during attendance at the University and shown in response to any reasonable request from an authorised person or from any other member of staff who might require such identification in the course of their duties.

4. Authority Cards
Persons so 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 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 the campus or damaging, 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 road 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 8:30 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.

(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 window screen 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 area 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

(b) the delivery of a notice to the infringing person or the owner of the infringing vehicle or bicycle; or

(c) posting a notice to the infringing person or the owner of the infringing vehicle or bicycle at that person's last known address. Such a notice shall be deemed to have reached the infringing person or the owner of the infringing vehicle or bicycle in the normal course of the post.

(iii) An infringement notice given in accordance with these Rules shall contain details of the infringement, the fine imposed and a statement of the rights of the recipient of the infringement notice.

(iv) Persistent or blatant infringement of these Rules may result in a Parking Permit being revoked, a vehicle being denied access to the campus and/or wheel clamping of the offending vehicle.

(v) If fines on staff members who are paid by the University remain unpaid after two (2) requests the amount of the fines may be deducted from the salary of the staff member. The authority for that deduction shall be deemed to have been made upon signing the application for a Parking Permit.

(vi) If fines on students, or staff members not paid by the University, remain unpaid after two (2) requests, the fines shall be treated as a debt due to the University. In the case of students examinations results may be withheld.

(vii) Non-payment of fines, or breaches of the driving rules of these Rules by students, may be treated as a misconduct under Part XII of the University By-Laws.

(viii) A staff member or student may appeal against any action taken. Such appeal shall be made in writing to the Vice Principal, Administration whose decision shall be final. Appeals must include the original or copy of the Infringement Notice.

PART IV - CATEGORIES OF PARKING AND FEES

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.
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.
8. Talking is not permitted in reading areas; quiet conversation is allowed for the purpose of seeking assistance in the use of the catalogues or the collection.
9. The reservation of seats in public reading areas is not permitted.
10. Books and other articles left unattended in the Library for more than twenty minutes on chairs and tables may be removed by the Library staff. Articles left in these areas at closing time will be cleared away and sent to the Security Office lost property section. The University accepts no responsibility for personal belongings left in the building.
11. Library users are responsible for all material borrowed in their name and will be charged the replacement cost of any item not returned.
12. No user shall deface, mutilate or destroy Library materials: in addition to any penalty that may be imposed for such conduct, the person concerned shall be liable to pay for the full cost of repair or replacement of damaged materials.
13. Users are responsible for all Library materials borrowed in their name until such time as the items are returned to the Library and deleted from the loans register. Borrowers will be charged the cost of replacing any item which is not returned.
14. Fines may be imposed for overdue items. Details of fine rates and borrowing conditions are available in the Library. Other penalties may be imposed for the late return of Library material.
15. Any person within the Library precincts from time to time will, for the purposes of these conditions, be deemed a "user".

Revision of Conditions
The Vice-Chancellor, on the advice of the Library Committee and of the University Librarian, may revise and update the conditions for the use of the University Library.

Publication of Code and Rules
A copy of the Code of Conduct and the relevant Rules for Student Discipline and Rules for Campus Access and Order are displayed at the entrance to any location or facility used by the University for the provision of library services.

RULES FOR STUDENT DISCIPLINE
Preamble
(1) These Rules provide discipline procedures in cases of misconduct by students of the University. The Rules are made in accordance with Section 29 of the University of Wollongong Act, 1989, and Section 34 of the University By-law.

Commencement
(2) These Rules came into operation on 8 October, 1993.

Definitions
(3) 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.

Urgency 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 University Librarian, Deputy Librarian or the officer-in-charge the student is guilty of misconduct in or about the Library precincts 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 (Administration), 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 (Administration) 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 computing facilities owned or under the control of the University for such period as he/she thinks fit if in the opinion of the Director or the Manager the student is guilty of misconduct or is in breach of any rules applicable to the use of computing facilities.

(9) Any action taken under Rules (6), (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 action 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 (6), (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. 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;
- exclude the student from, or restrict the use by the student of, any Library facilities;
- exclude the student from attendance at any examinations and/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 in force until the Investigation Committee has dealt with the matter.

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 under 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 consist of:

- the President of the Students' Representative Council nominated by the Vice-Chancellor, as Chairperson;
- another member of the Students' Representative Council nominated by the Vice-Chancellor, as Chairperson;
- 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;
- where both genders are not represented on the Committee, the Vice-Chancellor shall appoint a member of the appropriate group to redress this situation.

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.

(25) 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.

(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.

(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, 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);

(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 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 circumstance 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.

(34) 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.

(35) 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

(36) 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.
(37) The appeal must be lodged in writing to the Vice-Principal (Administration) within 14 days, or within such further period as Council may allow, or the notification of the Vice-Chancellor's action.

(38) 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.

(39) 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.

(40) 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

(41) 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.

(42) 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.

(43) The Chairperson of the Committee of Appeal shall have a deliberative vote but not a casting vote, except in cases where the Committee comprises an equal number of members.

(44) 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.

(45) The Vice-Chancellor, 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.

(46) 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

(47) 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.

(48) 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

(49) 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 the appeal, or he/she is a member of that Committee shall remain a member of the Committee until its investigation has been completed.

Inability to act

(50) 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 appoint its investigation in his/her absence if at least 2 members are able to act.

Serving of Notices

(51) A document or notice required to be served on or given to a student under these Rules may be served on the student personally within the University or be sent by certified post addressed to the student's last known place or residence. If posted, service shall be deemed to have been effected on the student on the date on which it would have been delivered in the ordinary course of the post.

Effect of Penalties

(52) A student who is expelled from the University shall not be re-enrolled except by permission of Council.

(53) A fine imposed on a student pursuant to Rule (32) shall be paid into the general funds of the University.

(54) A fine imposed on a student pursuant to Rule (32) shall be payable within 14 days of the date of notification of the fine, but an extension of time for payment may be granted by the Vice-Principal (Administration).

(55) The payment of a fine shall be suspended while an appeal from the decision imposing it is pending.

(56) If a fine imposed under Rule (32) is not paid within the time limited for its payment, the student shall be suspended and shall remain suspended so long as the fine remains unpaid.

(57) When a fine, suspension or expulsion pursuant to Rule (32) is imposed on a student the student shall be notified in writing of the decision imposing it.

(58) Suspension or expulsion imposed on a student pursuant to Rule (32) shall be deemed to be inoperative while an appeal from the decision imposing it is pending.

Suspension/Termination of Proceedings

(59) The Vice-Chancellor may at any time suspend any disciplinary proceedings, including the appeal proceedings, against a student if, in the opinion of the Vice-Chancellor, the continuation of such proceedings may be in conflict with other proceedings or action being taken by the student, whether within the University or outside.

(60) The Vice-Chancellor may terminate any disciplinary proceedings, including the appeal proceedings, if, at any stage, the student withdraws his/her enrolment with immediate effect.

General

(61) Nothing in these Rules affects the power of any person or body in the University duly authorised to administer any University rule not inconsistent with these Rules and, in particular, nothing in these Rules affects any power of a committee or person or other authority within the University to withdraw a student from a course, or to cancel the enrolment of a
student, or to refuse a person further enrolment for any course or subject, or to deal otherwise with his/her case, by reason of his/her failure to satisfy academic requirements or to pay any fee, fine, charge or other money payable to the University.

(62) Nothing in these Rules affects the power of Council to make rules given by any provision of the By-law.

(63) Nothing in these Rules shall be interpreted as limiting in any way any power vested in Council by the Act or any other rule of the University or as limiting the right of the University to enforce by any other means any right vested in it or to take any other action which it may be entitled or empowered to take in the circumstances.

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.

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.

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 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.
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.”

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 an 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.

ACKNOWLEDGMENT PRACTICE

UNIVERSITY POLICIES

The following University policies are contained in this section:

1. Acknowledgment Practice
2. Assignments Submitted by Facsimile
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

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 2 is presented using the footnote 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 d"raconian defamation laws has existed throughout the 200 years of white settlement." 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.

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 def"mation 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.

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 (Pollak, 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 (Pollak, 1990, p 7).
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.

GRIEVANCE RESOLUTION PROCEDURES

The object of these procedures is to encourage the resolution of grievances as early as possible. Staff usually resolve grievances with their supervisors. Students typically resolve grievances informally through the Heads of Academic Units, Deans of Faculties or the Dean of Students. The University has existing grievance resolution procedures. These procedures are to complement the present informal and formal grievance resolution practices. They will not interfere with the requirements of the various industrial awards.

Rationale

There have been many problems associated with resolving grievances within the University. The complexities of the system combined with the varied patterns of referrals has meant that individuals with a formal grievance must refer it through to the Executive to enable action on the grievance to occur. This can be a very time consuming process which can, by its formal nature, exacerbate discord.

The purpose of the following procedures is to provide a faster and less complex procedure to allow members of the University community the opportunity to resolve grievances in their capacity as employees or students.

The procedures are designed to prevent personal conflicts from becoming entrenched, to resolve grievances without delay, in a conciliatory and effective manner, and to ensure that the internal mechanisms for dispute resolution are easily accessible to staff and students.

1. Glossary of terms

'mediation' is the involvement of an impartial third party, a mediator, who assists the parties towards an agreement.

'mediator' is a person who is agreed upon by the parties and chosen from a panel of accredited mediators. The mediator controls and directs the process not the content.

'negotiation' involves two (or more) parties, with competing or conflicting interests or needs working towards an agreement on how they will co-operate. This is the most frequently used strategy for resolving grievances, especially unwritten grievances.

'University grievance conciliators' a person, from the list below, who assists the parties in agreeing upon a process by which the parties will attempt to resolve their dispute. The conciliator may not necessarily sit with the parties while they negotiate a settlement.

Dean of Students
Deans
Heads of Units
Equal Employment Opportunity Co-ordinator
Head of Counselling Service or designee
Heads of Halls/ Colleges
Senior Personnel Officers
Union representatives
University trained grievance conciliators

2. Grievances

2.1 Grievances which can be dealt with under these procedures are:

2.1.1 Student grievances, except those in 2.2.1, relating to a decision, act or omission by a University staff member or student, which is alleged to be wrong, mistaken, unjust or discriminatory.

2.1.2 Staff grievances, except those in 2.2.1, relating to a decision, act or omission by a University staff member or student, which is alleged to be wrong, mistaken, unjust or discriminatory.

2.2 Grievances which cannot be dealt with under these procedures as they are dealt with under other mechanisms, and contain appeal procedures: 1

2.2.1 Students
a) assessment of performance;
b) thesis examination;
c) progress toward degree/diploma;
d) matters covered by the Occupational Health and Safety legislation

1 Failure of the University to follow procedures set down in these areas, 2.2.1 and 2.2.2, would normally be taken up by the appropriate Union or outside agency. If, in the view of the conciliator, progress to resolve the grievance can be made using these procedures, they will be used.
f) any matter which in the opinion of the conciliator is likely to lead to disciplinary action.

2.2.2 Staff

a) decisions of University Council
b) appointments or conversions;
c) breaches of Awards and conditions of employment;
d) promotions, reclassification and attraction/retention allowances;
e) promotions or reclassification appeals;
f) matters of Occupational Health and Safety;
g) procedures for termination on the grounds of ill-health;
h) any matter which has, or in the opinion of the conciliator, is likely to lead to disciplinary action; and
i) any matter which is subject to specific legislation, such as Privacy and FOI Act.

2.3 The conciliator may recommend to the Deputy Vice-Chancellor not to enquire into a grievance, or if a conciliator has commenced to enquire into a grievance, recommend not to continue to enquire into the grievance where:

2.3.1 a period of more than 12 months has elapsed since the last act to which the grievance relates was done; and reasons provided by the grievant for the delay in reporting the grievance are not substantial; or
2.3.2 the conciliator considers the matter to be lacking in substance; or
2.3.3 the matter has been previously dealt with by another conciliator; and
2.3.4 there has been consultation between the Deputy Vice-Chancellor or Vice-Principal and the relevant Union(s).

3 Conciliation

3.1 A staff member or a student with a grievance should make contact with a conciliator and explain the grievance.

3.2 The conciliator will clarify the issues. In consultation with the grievant, the conciliator suggests possible directions for resolution of the grievance. Refer Appendix A

3.3 The conciliator can, with the grievant's consent:

3.3.1 refer the grievant to another person who can provide relevant advice or assistance with the aim of resolving the grievance.
3.3.2 facilitate negotiation of the grievance between the parties
3.3.3 arrange mediation in compliance with the guidelines for these processes (Appendices A and B); or
3.3.4 where the conciliator is unable to implement 3.3.1, 3.3.2 or 3.3.3, the conciliator will refer the matter for dispute settlement, to the Deputy Vice-Chancellor or Vice-Principal, who will inform the Vice-Chancellor.

3.4 The conciliator will maintain responsibility for case management, except when it is referred to dispute settlement.

3.5 Upon the grievant informing a conciliator of a grievance, the conciliator will act within three working days of receipt of the grievance.

3.6 The conciliator will, if requested by a dispute settlement panel, provide a brief history of the process.

4 Mediation

4.1 Mediation requires the agreement of both parties.

4.2 Potential University mediators will be jointly selected through agreement with the Executive and the Unions. The mediator will be suitably qualified and/or have attended an accredited course recognised by the University for this purpose.

4.3 The guidelines for the conduct of mediation are contained within Appendix B.

4.4 Mediation is to occur within 14 days of both parties agreeing to mediation.

4.5 Procedures for mediation are:

4.5.1 The grievant lodges a complaint with a conciliator.
4.5.2 Information about mediation is provided by the conciliator to both parties.
4.5.3 With the consent of both parties the conciliator organises the mediation.
4.5.4 Both parties agree on who is to be the mediator.
4.5.5 Either party may be supported by a person of their own choice.
4.5.6 Both parties provide to the mediator a short statement, less than 1/2 page, setting forth their own position with regard to the issues that need to be resolved. The conciliator can assist the grievant in this process.
4.5.7 The mediation time and place is established and privacy ensured.
4.5.8 Upon commencement of mediation, rules for mediation are explained to the parties.

4.5.9 At the conclusion of the mediation session the parties determine their agreement for resolution of the grievance. This is generally a written and signed statement, which is the property of the parties. It is presented to the conciliator. Alternatively where mediation is not successful, the mediator and/or the parties report this to the conciliator.

5 Dispute settlement

5.1 The dispute panel is set up to resolve a formal grievance. If disciplinary action is indicated the panel will not proceed.

5.2 On referral of a formal grievance by a conciliator, the Deputy Vice-Chancellor, or nominee, will provide the subject of the grievance with a copy of the formal grievance.

5.3 The Deputy Vice-Chancellor, in consultation with the conciliator and the parties, or their nominees, will reconfirm that negotiation, conciliation and/or mediation could not be used.

5.4 A person with a grievance may not request the establishment of a dispute settlement panel. A panel may only be formed on the recommendation of a conciliator.

5.5 A dispute settlement panel can consist of one or three people.

5.6 Panel members must have been jointly selected by the Deputy Vice-Chancellor, or nominee, and the parties or their respective Unions and have suitable background and/or training.

5.7 The composition of the panel, where there are three people, will be:

5.8 The composition of the panel, where there are three people, will be:

5.8.1 at least one of each gender;
5.8.2 if the grievant and/or the subject of the grievance are Union members, a nominee or nominees from the appropriate union or unions;
5.8.3 the chair of the panel will be appointed by the Deputy Vice-Chancellor, after consultation with the respective parties, their nominees or Union(s).

5.9 The dispute settlement panel will normally be required to:

5.9.1 ascertain the facts by seeking such information as is necessary;
5.9.2 make a recommendation on resolution of the particular case, on the balance of probability; and
5.9.3 make comment, where appropriate, on any matters of governance or structure which may have contributed to the dispute.
5.10 The Chair of the Panel will ensure that the parties are fully informed of allegations which affect them.

5.11 An independent person will be appointed to observe the panel’s proceedings and will:

5.11.1 be agreed upon by both parties;
5.11.2 monitor the Panel’s process (including attending any meetings between the Chair and the parties); and
5.11.3 report to the Deputy Vice-Chancellor on the extent to which, in the observer’s judgement procedural fairness, occurred. Both parties are entitled to this report.

5.12 Both parties will appear separately before the panel and may be accompanied by a person of their choice, who does not have speaking rights.

5.13 The panel may interview members of the University and have access to any relevant documents which are not exempt under the FOI Act or Privacy policy.

5.14 The time requirements for the dispute settlement procedures will be:

5.14.1 agreement on the composition of the panel and the terms of reference occurring within 10 working days of the lodgement of the written grievance;
5.14.2 the panel subsequently meeting within the following 10 working days;
5.14.3 the panel completing and submitting its report, including recommendations, to the Deputy Vice-Chancellor, or nominee, within 10 working days from the time started; and
5.14.4 the University commencing appropriate action within 10 working days after receipt of the Committee’s report.

5.15 The panel’s written report, including recommendations, will:

5.15.1 reflect the views of all members of the panel;
5.15.2 be signed by each member of the panel;
5.15.3 be directed to the Deputy Vice-Chancellor, or nominee; and
5.15.4 be available to each party, and normally to their Head of Unit; and
5.15.5 be, in all other respects, a confidential document.

5.16 The dispute settlement panel shall immediately refer the matter to the Vice Chancellor for investigation if it appears that disciplinary action may be recommended.

5.17 If Heads of Units cannot or do not wish to implement fully the panel’s recommendations, they must inform the Deputy Vice-Chancellor and both parties directly of the reasons for their decision.

5.18 There is no right of internal appeal against the panel’s report, except on procedural grounds.

5.19 Further details for Dispute Settlement Panel meeting procedures are contained within Appendix C.

6. Legislation

6.1 Anti-Discrimination Law

6.1.1 Grievants to whom these guidelines apply, will in some circumstances have rights of complaint, whether against the respondent or employer or both, under the NSW Anti-Discrimination Act (1977), or Human Rights and Equal Opportunity Commission Act (1986). Reporting a grievance will not deprive a person of such other rights of complaint. Particularly in less serious cases it would be appropriate for supervisors and identified Grievance conciliators to encourage grievances to use informal procedures, initially at least. However, under all circumstances grievances should be informed of the existence of relevant external rights and the processes of complaint available through the Anti-Discrimination Board.

6.1.2 Under Section 50 of the NSW Anti-Discrimination Act it is unlawful to victimise a person (i.e. subject a person to a detriment) for having exercised their rights of complaint under that Act.

6.2 Defamation

6.2.1 Persons making a grievance, giving evidence as a witness to a grievance, or involved in the investigation of a grievance have a defence of qualified privilege in the event of a defamation action.

6.2.2 In general, where a person communicating a statement which may be interpreted as defamatory has a legal, moral or social duty to make the statement and the recipient has a corresponding interest to receive it, the defence of qualified privilege will be available.

6.2.3 Persons complying with the procedures contained in the University’s guidelines have a defence of qualified privilege in the event of a defamation action. This is provided that the making of, or hearing, investigating acting on a grievance was done without malicious intent and in good faith, including genuine belief that the action was in accordance with the University’s Grievance Resolution Procedures.

6.2.4 Persons complying with these procedures might reasonably expect the University to meet their legal fees in the event of a defamation action.

6.2.5 The defense of qualified privilege may also be available to a person who is defending an attack on his/her reputation, provided their statements are relevant to their defence.

6.2.6 The defence of qualified privilege is not available where a grievance is false and malicious, or is broadcast indiscriminately.

7 Confidentiality

7.1 Any breaches of confidentiality, careless or otherwise, on the part of grievance conciliators, mediators, panel members, third parties or supervisors when dealing with a grievance may be subject to disciplinary action by the Vice Chancellor, or nominee.

8 Grievances which are malicious and/or lacking in substance

8.1 Where a grievance is assessed by a conciliator to be lacking in substance the conciliator may submit the complaint to another conciliator for review.

8.2 Where a grievance is held by the Disputes Settlement Panel to be lacking in substance it must dismiss the complaint.

8.3 Where a grievance is found by the majority of the Panel to be false and malicious the Panel must refer the matter to the Vice Chancellor for investigation and possible disciplinary action.

9 Training Requirements

Grievance Conciliators

9.1 University trained grievance conciliators must attend training, of at least 4 days, every two years and receive supervision, during work hours, by the person responsible for the conciliators; and

9.1.1 University grievance conciliators must demonstrate to the Deputy Vice-Chancellor through their experience or training, their competencies at being a University conciliator. Otherwise a training program is provided.
HEALTH AND SAFETY POLICY

The policy of the University of Wollongong is to provide a safe working environment for its staff, students and visitors. As a consequence of this, the University encourages all members of the University community to regard accident prevention and safe working as a collective and individual responsibility.

In order to implement this policy, the University supports the activities of the Occupational Health and Safety Committee in monitoring the safety environment and safety awareness and training at all levels of activity.

The University regards seriously its corporate responsibility under the various Occupational Health and Safety Statutes and will ensure that all members of the University staff understand clearly their individual responsibilities outlined in such legislation. In this regard, Heads of Departments and other Academic and Administrative Units are responsible for day to day safety within their areas of responsibility. The Safety Officer is available to advise on specific matters or assist in implementing safety programs.

The University insists that all staff and students work within the various legal requirements with regard to safe working and the current, and future, safety rules devised to protect them in specific situations.

Personal habits and conduct on campus should be such that they do not cause accidents nor create hazards which may endanger members of the University or other persons.

NON-DISCRIMINATORY LANGUAGE PRACTICE AND PRESENTATION

POLICY STATEMENT

As part of its Equal Opportunity/Affirmative Action initiatives, the University of Wollongong endorses a policy of non-discriminatory language practice and presentation in all academic and administrative activities of the University.

Accordingly, the University will:

- promote the use of non-discriminatory language and presentation in all University of Wollongong documents and publications.
- promote the use of non-discriminatory teaching practice in classrooms.
- develop guidelines and regulations for students' use of non-discriminatory language in their written work and oral presentations.
- establish a procedure for settling complaints and grievances about discriminatory language, presentation, and teaching practices.
- inform all staff of their responsibilities under the policy, and of the existence of a complaints procedure; and distribute suitable educational material to assist staff in compliance.

APPLICATION

This policy has been developed to assist University staff in avoiding uses of language which may appear to exclude some groups of people or which may gratuitously give offence. It is directed toward the elimination of stereotyping, perpetuation of false assumptions and discrimination in University processes.

This policy applies:

- to all presentation and practice by staff in teaching and administrative activities.
- in face-to-face dealings amongst staff and between staff and students.
- to students' written work and oral presentations.

RESPONSIBILITY

The Heads of Departments will be responsible for implementation and monitoring of the policy and for responding to complaints.

COMPLAINTS PROCEDURE

Students or staff with complaints or concerns should approach the Head of their Department or Unit, or if preferred, one of the following:

- the Equal Opportunity Co-ordinator
- the Dean of Students
- Counselling Services.

GUIDELINES FOR RefERRING TO MINORITY GROUPS

Aborigines and Torres Strait Islanders

An Aborigine is a person of Aboriginal descent who identifies as an Aborigine and is accepted as such by the community in which he or she lives.

The words 'aborigine' or 'aboriginal' refer to the people living in a country at its earliest period. In order to refer specifically to the indigenous inhabitants of Australia, the words should always be treated as proper nouns or adjectives, and begin with a capital letter.

Aboriginal is the adjective pertaining to Aborigines and should not be used as a noun. (Please note that this equity statement overrules the advice of many style manuals on this topic.)

Note that the term 'Aborigine' is a general one referring to the Australian Aboriginal race as a whole. When practicable, it is preferable to be more specific. Koori is the name by which Aborigines living in Southern NSW, Victoria, and Queensland refer to themselves. Mi'rra people come from the northern part of NSW and most of Queensland, while Goeri people live on the NSW central coast. Aboriginal people from these groups make up most of the Wollongong Aboriginal population, although there is a growing contingent of Aborigines from other parts of Australia as well as Torres Strait Islanders. Torres Strait Islanders have in the past been considered Aborigines, but this is no longer the case. They are a distinctly different people and wish to be recognised as such.

Dreamtime, Myths and Legends

Aboriginal religious creation stories are often referred to as myths or legends. The words dream, myth and legend are imprecise terms which refer to the stories that Aboriginal people live on the land and in society, and present day Koori culture and society.

Traditional implies a static quality which may not be reflected in reality. Aboriginal religious beliefs and stories are just as valid as those of any other spiritual or religious group, and so more careful and appropriate terminology is required.

Tribe

The word 'tribe' has negative connotations for many Kooris. More suitable terms are clan or family groups.

Note: Care should be taken with terms like 'traditional' and 'primitive' to describe present day Koori culture and society. Traditional implies a static quality which may not be reflected in reality in Koori society, and primitive is a value-laden and imprecise term.

People with Disabilities

Many people with disabilities understandably resent the impersonal terms used to describe them because these ignore their individuality and imply that a disability necessarily means general incapacity to perform many tasks and activities. We are all differently abled. It is important that we avoid stereotyping and depersonalisation by not emphasising the disability, but rather focusing on the individual.

The term 'people with disabilities' is therefore preferred to the disabled, the handicapped, or disabled people, because it is...
recognised that a disability is only one characteristic of an individual and does not indicate a general lack of ability or capacity.

Similarly, in relation to specific disabilities, it is preferable to use terms such as ‘people with epilepsy’, ‘people who are deaf or hearing impaired’, ‘people who are blind or vision impaired’, rather than collective nouns such as epileptics or the blind.

Confusion in the use of the term ‘disability’ and related terms can be clarified by referred to the following World Health Organisation definitions:

*Impairment* is any loss or abnormality of structure or function whether psychological, physiological or anatomical.

*Disability* is any loss or reduction of functional ability and activity that is consequent upon impairment.

*Disadvantage* is the obstacle resulting from an impairment or a disability. Disadvantage represents the social and environmental consequences to the individual stemming from the presence of impairment and disability.

These definitions can be more clearly illustrated by example: spinal cord damage of a person with paraplegia is an impairment; its effect on the person’s ability to walk is a disability; if the person’s access to tertiary education studies if affected by difficulties in access to buildings, to transport, or by discriminatory attitudes, then they suffer a disadvantage.

Whether a disability entails a disadvantage depends on an individual’s social and physical environment, as well as the nature and extent of the disability.

The term ‘impairment’ includes those which are not visible. Conditions such as an anaemia, epilepsy, heart disease and chronic pain may often be described as “hidden disabilities”. Some people may have an impairment which is perceived by others as resulting in some degree of disadvantage, even if there is no functional disability. For example, physical deprivities may constitute a disadvantage only because of social attitudes.

**Ethnic Minority Groups**

There is much controversy regarding the most appropriate terminology to use. The following definitions may assist the word selection for a particular context:

1. **Ethnic Group** can be described in an objective sense as people who share a particular national origin, religion, language, or culture. Linking such objective factors with a subjective identification is probably more useful so that ethnicity involves a ‘sense of peoplehood’.

   The term ‘ethnic group’ can be misleading, because everyone belongs to an ethnic group, not just those who are of non-Anglo-Celtic origins.

   Ethnic is the adjective pertaining to ‘ethnicity’ and should not be used as a noun.

2. **Immigrant** means a person who takes up residence in a country other than his/her birthplace.

   The term ‘migrant’ actually refers to a person who moves from one place to another. This term is often used to mean ‘immigrant’ in the sense defined above. However, immigrant is the preferred and more accurate term where it is permanent settlement to which we are referring. Migrant is sometimes inappropriately used to refer to people of non-English speaking background generally, whether or not they were born overseas or in Australia.

3. **People of Non-English Speaking Background**

   This term refers to people:
   - who have migrated to Australia and whose first language is one other than English;
   - born in Australia but one or both parents’ first language was not English.

People of non-English speaking background (NESB) is the term most commonly used within an equal opportunity background. Another acceptable term is People with a Language Background other than English (LBOTE).

4. **Ethnicity** is another ideological and controversial concept denoting ‘a sense of peoplehood’, a feeling of belonging and sharing in a common culture, way of life, nationality or religion. Ethnicity is maintained through a process of self-ascription and ascription by others.

5. **Multiculturalism** is a term commonly used to convey either of two meanings. One is a factual description of the Australian population, which comprises a wide range of people of different ethnic and cultural backgrounds.

   The other meaning describes a social ideal. It refers to policies, institutional arrangements and community attitudes that appreciate the diversity of Australian society and how this diversity can enrich Australian life. It recognises that to achieve a just, equitable and harmonious society, there must be no economic or social disadvantages arising from ethnic, racial or cultural background, and that the right to maintain distinct cultural identities should exist unimpaired by any form of discrimination.

   Much language use in Australia tends to either stereotype ethnic and cultural minorities or make them invisible. For instance, our society now consists of many people holding religious beliefs other than Christian, or none at all, and it is inappropriate to request a person’s ‘Christian name’ when we are seeking given name or identification. Asking for someone’s first name is also inappropriate for the naming practices of many Asian people. It is preferable to request surname or family name rather than last name, and given name rather than first name.

   **Guidelines for Gender Inclusive Language**

   **What is it?**

   Gender inclusive language is often referred to as non-sexist language. It is language that treats women and men equally. It does not exclude one gender nor demean their status. It does not stereotype, nor suggest false generics, nor make irrelevant gender references.

   **False Generics**

   The term ‘man’ can be ambiguous because of its traditional dual meaning. One meaning refers to an adult male and the other to the human species. Research indicates that people tend to visualise males when they are asked to describe or define words such as foreman or chairman. In this way, language reinforces inequality, misrepresenting and excluding women. It is therefore no longer appropriate to use man as a generic term as it is confusing and discriminatory.

   Usually it is not difficult to substitute appropriate expressions. It is nonetheless important to select a relevant and accurate alternative.

   **Avoid**

   ancient man
   ancient woman
   chairman
   foreman
   man in the street
   mankind
   man-made
   manpower
   newsman
   sportsmanship

   **Possible**

   Alternative
   ancient people or civilisation
   chairperson, chair, moderator, convenor
   supervisor
   ordinary or average citizen
   humankind
   handicraft, synthetic, handmade, artificial
   labour, staffing, workforce
   reporters, journalists, media
   sense of fair play

   **Unaffected Words**

   Some similar looking words are not compounds incorporating the gender-specific word ‘man’ and these do not have to be considered. Examples of these are:

   manage
   manipulate
   manage
   manual
   manufacturer
   manuscript
   human

   **Derived from Latin**

   manus
   derived from manus (Latin for hand)
   derived from manus (Latin for human)

   **Possibility**

   Possible

   Alternative

   human family, global community
   ancestors, forebears
   founders, pioneer
The Personal Pronoun

Inaccuracies arise when he is used generically to substitute for a neutral third person singular pronoun. Current research indicates that he is rarely interpreted as including she, particularly by children, who take the word quite literally. There are a number of alternatives available:

- Recast subjects into the plural form
e.g. when a student appeals, he must...
  Alternative
  When students appeal, they must...

- Recast the sentence, using 'one' or 'you'
e.g. You should fill in the application in your own handwriting.
  Alternative
  One should use one's own handwriting when completing the application.

- Eliminate problems by deleting the pronoun
e.g. Each student must pay his fees by
  Alternative
  Each student must pay fees by...

- Use 'his or her', 'he/she/she' instead of the masculine pronoun
e.g. Everyone must exercise his right...
  Alternative
  Everyone must exercise his or her right...

SEX ROLE STEREOTYPING AND STATUS ISSUES

Stereotyping

Sex role stereotyping occurs when people assume that engineers, farmers, accountants, plumbers or mechanics are always men. It can also occur in portrayals which assume that women are always wives and mothers, men breadwinners or that all childcare workers and nurses are female, while firefighters and police officers are male. It is important to avoid expressions that are implicitly sexist.

Avoid Possible Alternative

New academics require removal costs for their wives and children.
New academics require removal costs for their families.

All Administrative staff and their wives are invited.
All Administrative staff and their partners are invited.

We are looking for a supervisor who is his own man.
We are looking for a supervisor with a sense of independence and integrity.

Demeaning and Patronising Expressions

Many women object to the insensitive use of the terms 'lady' and 'girl'. Girl should only be used for young women of primary and secondary school age. A female shop assistant should not be called a salesgirl, just as a male would not be called a salesboy. Using the term 'girl' tends to denote inferior status, as in calendar girl or girl Friday. More neutral terms for these examples would be model and office assistant.

Condescension or patronisation is frequently implied with the term 'lady'. Women often find words such as tea lady or cleaning lady objectionable. The terms 'attendant' or 'cleaner' are far more appropriate in today's society. Lady should only be used when gentleman would be appropriate for a male in the same situation.

Status

Equivalent terms should be used when dealing with men and women. Husband and wife are equivalent terms; man and wife are not. It is also not appropriate to address a man by his surname, while calling a woman by her given name or her title.

Appendix 1 References

University Guidelines

Davies, B (1983), Towards Non-Sexist Language, Federation of Australian University Staff Associations
Deakin University (1987), Inclusive Language Guidelines, (internally published University document)
La Trobe University (1985), Use of Non-Sexist Language, Council minutes 196.17(v), C85/29, and 199.10.3 (internally published University document)
Queensland University of Technology (1991), Policy and Guidelines on Non-Discriminatory Presentation and Practice, (internally published University document)
Ramson, W (1985), Guidelines on Non-Sexist Language for the Australian National University, (internally published University document)
University of Adelaide (1982), 'Language in Written Communications' in Women at the University of Adelaide, (internally published University document)

Other Guidelines

Banks, TL (1988), Gender Bias in the Classroom, Journal of Legal Education, No 137

Fesl, Eve D (1987), How the English Language is Used To Put Aborigines Down, Deny Us Rights, or is Employed as a Political Tool Against Us, Monash University
Miller, C and Swift, K (1980), The Handbook of Non-Sexist Writing, Lippincott and Crowell, New York
Miller, C and Swift, K (1981), The Handbook of Non-Sexist Writing for Writers, Editors and Speakers, The Women's Press Limited
Office of the Status of Women (1983), Fair Exposure: Guidelines for the Constructive and Positive Portrayal and Presentation of Women in the Media, AGPS, Canberra
Standing Committee on Spoken English (1984), Non-Sexist Language Guidelines, Australian Broadcasting Commission
PRINCIPLES UNDER WHICH SUBJECT MATERIAL MAY BE SOLD TO STUDENTS BY ACADEMIC UNITS

The following guidelines apply under which subject material may be sold to students by academic units:

- that any material (e.g. supplementary lecture notes, laboratory manuals and the like) that it is necessary for a student to have in order to complete the requirements for the subject is provided to the student free of charge;
- that where material is made available for sale to students, a number of copies of the material are placed in the library for those students who are unable/unwilling to purchase the material;
- that the amount charged for any material sold to students only covers the actual production costs (printing, collating, binding) to the unit.
4.1.3 When the Consent Form is
54
4.1.2 The subject must be clearly informed
4. The Privacy Officer despatches the
personal student or staff records without a
4. RELEASE PROCEDURES
3. The Privacy Officer requests the
concerned.
4.1 Personal Information Consent Form
4.2 Subpoenas/Court Orders
The University is legally obliged to respond
to any request for information in the form of
a subpoena or court order. In all such cases the
subject of the subpoena or court order should
be advised of the release of the personal
information to the courts. All officers must adhere to the following
procedures for the release of such information:
1. The unopened subpoena is served to
the University Privacy Officer.
2. The Privacy Officer forwards the
cheque from the requesting body to the
cashier for registration.
3. The Privacy Officer requests the
relevant department/unit to photocopy the subpoenaed documents
and forward them to him/her.
4. The Privacy Officer despatches the
copied documents to the court with an
accompanying letter responding to the
subpoena.
5. The Privacy Officer will write to the
subject advising that a subpoena has
been served and records released.
5. THE UNIVERSITY PRIVACY
OFFICER
5.1 Responsibilities
The University shall appoint a Privacy
Officer who shall ensure:
(a) that the procedures detailed in this
policy are properly followed in accordance with the principles
enunciated by the Privacy Commission.
(b) that information and advice on
privacy matters is readily available to
all members of staff; and
(c) that a register of requests for
information, including subpoenas, be
maintained.
The Privacy Officer shall be responsible to
the Deputy Vice-Chancellor.
5.2 Complaints
5.2.1 When the Privacy Officer receives a
complaint from the Privacy Commissioner alleging a breach of the
privacy of an individual, s/he shall inform the Head of the Section in
which the alleged breach occurred of
only those details of the complaint
necessary to prevent further
breaches occurring.
5.2.2 If the NSW Privacy Commissioner
determines that the University has
breached any of the eleven Privacy
Principles, it is the responsibility of the
Privacy Officer:
(a) to take all such steps as are reasonably
within his or her power to ensure that
the terms of the determination are
brought to the notice of all members and
employees of the University whose
duties are such that they may engage
in conduct of the kind to which the
determination relates; and
(b) to advise the Deputy Vice-Chancellor
if any member or employee of the
University repeats or continues
conduct deemed to have breached the
privacy of an individual. The Deputy
Vice-Chancellor shall then take whatever steps he considers necessary
to enforce the Privacy Policy in such a
case.
6. STAFF RESPONSIBILITIES
6.1 Conditions of Service
The Conditions of Service for all members of
staff shall include a clause requiring compliance with the principles
and procedures of the University's Privacy
Policy.
6.2 Heads of Units
It is the responsibility of Heads of Units to
take steps to ensure that all staff are aware of the
Privacy Policy principles and
procedures.

STUDENTS AND STAFF WORKING ALONE ON UNIVERSITY PROPERTY

1. POLICY REGARDING STUDENTS AND STAFF WORKING ALONE ON UNIVERSITY PROPERTY

Departments and Units should establish rules that ensure the safety of staff and students who work on University property outside the normal working hours or alone.

These rules should be designed for the specific needs of a Department or Unit, but need to take into account those environments which have a particularly high potential to be hazardous. Such areas include laboratories and areas where power or hand-held tools, or moving machinery are used.

1.1 Staff and students generally should not work alone in:
(a) laboratories where chemical substances are handled or housed, or where there is a risk to injury from the work being carried out;
(b) areas where power or hand-held tools
that could cause injury are used; and
(c) areas where moving machinery is used.

Where it is necessary, however, for staff
and students to work alone in such areas, Departments and Units should ensure that staff and students are fully qualified and trained in the use of chemical substances and equipment, and put appropriate mechanisms into place to ensure that staff and students comply with this requirement.

In this respect, advice and assistance is available from the University's Occupational Health and Safety Coordinator.

2. EMERGENCY ACCESS

Where staff or students work alone, a means of communication to gain assistance in an emergency must be available. Additionally, arrangements should be made for other staff or students to check regularly on the welfare of persons working alone.
The University has Codes of Practice which govern the conduct of its members, both staff and students. The current Codes are:

1. Assessment
2. Research
3. Students
4. Supervision
5. Teaching

CODES OF PRACTICE

The University has Codes of Practice which govern the conduct of its members, both staff and students. The current Codes are:

1 RESPONSIBILITIES

Heads of Academic Units

1.1 Heads of academic units have general responsibility for assessment of students enrolled in course-work subjects offered at both undergraduate and postgraduate levels.

1.2 According to the provisions of Course Rule 010 Assessment, the Head shall determine:

(a) the methods for assessing the performance of students in such subjects; and
(b) the standards of achievement required for the approved grades of performance.

1.3 In complying with this Rule, the Head of an academic unit will be advised by the Assessment Committee which comprises all academic staff of the unit.

Academic Staff

1.4 Academic staff carry out assessment under the authority of the Head of the relevant academic unit. The Head of a unit has responsibility to consult with academic staff to ensure that:

(a) they are familiar with the University policy and with this Code;
(b) their assessment methods and practices comply with University policy and provisions of this code;
(c) no later than the end of the first week of formal class contact, information about the methods and practices of assessment that they will use for a subject offered by the unit, will be available to all students enrolled in that subject;
(d) they carry out the assessment fairly, objectively and consistently across the candidate for the subject;
(e) group activities are assessed only by means which will allow the real contribution of each member of the group to be determined; and
(f) they are available to students after marked material has been returned and, unless otherwise approved, after final results have been released, to provide appropriate, helpful and explanatory feedback on performance.

1.5 For subjects in which the assessment methods and practices are finalised after consultation with the enrolled students, the date by which the details are to be finalised should be stated in the Subject Information Sheet. Additionally, upon finalisation of the details, a written copy of those details shall be made available to all enrolled students.

Students

1.6 Students have responsibility to:

(a) comply with instructions issued as part of an assessment process;
(b) comply with provisions of the document "Acknowledgment Practice" and other advice provided by relevant academic units relating to practices for acknowledging the work of others; and
(c) submit for assessment only that work which is their own individual and unassisted work, excepting as otherwise permitted.

2 INFORMATION PROVIDED TO STUDENTS

2.1 By the end of the first week of formal contact for each subject, the Subject Information Sheet shall be provided to every student attending scheduled classes and shall be available to other enrolled students. The Subject Information Sheet must at least include information about:

(a) the methods of assessment to be used for the subject, except as provided for in Section 1.5;
(b) the weight of each component of assessment in determining the final result;
(c) whether there are components of the assessment which must be completed at a specified level of achievement for the subject to be completed satisfactorily;
(d) whether contributions to tutorial or seminar discussions will be taken into account and how such contribution will be assessed;
(e) details of material to be submitted, and whether assessment of that material will contribute to the final assessment;
(f) the due dates for submission of such material and penalties which may be applied for late submission;
(g) the required length, format and any other relevant details of the material to be submitted;
(h) details of the procedures for submitting the material and for return after assessment; and
(i) whether the marks gained in part or all of the assessment will be modified or scaled in any way before the final mark is determined and, if so, what the system of modification or scaling will be and how it will be applied.

Cover Sheets

2.2 It is recommended that:

(a) academic units provide students with cover sheets to accompany any submitted work; and
(b) the sheet should have two tear-off sections, one to provide a receipt for the student upon submission of the work to which the cover sheet is attached, and the other to provide a receipt for the unit upon return of the marked work to the student; but
(c) should an academic unit prefer an alternative system for recording the submission and return of work, it is essential that the system:

(i) provides safeguards against claims of non-submission and non-return; and
(ii) is set out in detail in the Subject Information Sheet, together with information relating to resolution of grievances that may arise from operation of the system.

3 PLAGIARISM

3.1 At enrolment and re-enrolment each year, all students are provided with a copy of the leaflet Acknowledgment Practice. This leaflet sets out general information to help students become aware of their responsibilities in ensuring that they do not deliberately or inadvertently plagiarise the work of others.

3.2 Subject Information Sheets should direct the attention of students to the leaflet and provide additional information about acknowledgment methods specific to the subject and to the relevant academic unit.

3.3 Students must be advised about penalties that the relevant committee in the faculty or academic unit may apply in cases of proven plagiarism.

4 FUNCTIONS OF ASSESSMENT

4.1 In considering which assessment methods to use for a particular subject, the responsible members of academic staff need to be aware of the multiple functions of assessment.

4.2 There are three primary functions:

(a) (i) to judge performance, to grade students and to determine whether a particular student has attained a
particular standard of achievement; and

(ii) to determine whether a particular student is sufficiently well prepared in a subject area to proceed to the next level of instruction;

(b) (i) to provide feedback to students to indicate levels of attainment and to indicate and diagnose misunderstandings and learning difficulties; and

(ii) to provide feedback to teaching staff to indicate areas in which students are experiencing difficulties and to indicate and diagnose ineffective teaching; and

(c) to promote learning.

4.3 Staff need to be clear about the function or functions of each component of assessment they use for a particular subject, and the need to select methods and practices which will ensure that required functions are achieved. Information about these functions should be communicated to the students.

5 ASSESSMENT OBJECTIVES

5.1 The University has recently adopted a policy which requires approval of clearly enunciated objectives for every Faculty, Academic Unit, course and subject. The objectives for a subject set out in detail the learning that a student is expected to acquire by completing the subject at a satisfactory standard of achievement.

5.2 Thus, the principal purpose of assessment in a subject concerns assessing how well a student has attained those stated objectives.

6 ASSESSMENT METHODS

6.1 In determining the assessment methods and the weightings to be used for a subject, and in setting deadlines for submission of material for assessment, consideration should be given to the following:

(a) the objectives of the subject;

(b) the required function of the assessment;

(c) the desirability of providing students with feedback, preferably before mid-session and thereafter, so that they may monitor their performance progressively for the duration of the subject;

(d) the need to minimise delay in providing feedback to students, particularly towards the end of the subject;

(e) the desirability of assessment being based on more than one piece of work; and

(f) the ways by which plagiarism can be prevented.

6.2 There are many methods of assessment, each of which can serve a specific purpose and each of which has certain inherent advantages and limitations. Members of staff need to be aware of these advantages and limitations in prescribing the assessment for particular subjects. Staff are encouraged to adopt assessment practices that promote learning and lead to improvement in performance by the students undertaking the assessment.

6.3 Heads should ensure that:

(a) assessment in a subject is conducted by procedures appropriate to the determination of how well each student has achieved the objectives approved for that subject;

(b) as far as is practicable, the procedures promote learning and improve performance of students;

(c) the assessment contains at least one significant piece of work from which the quality of the unaided capability of each student can be assessed; and

(d) attendance at prescribed classes is not a component of assessment of any subject.

6.4 Heads may prescribe that:

(a) participation in class activities may be a component of assessment in a subject; and

(b) attendance at prescribed classes may be a mandatory requirement for satisfactory completion of a subject.

6.5 The Assessment Committee for each Academic Unit should approve the formal form of all assessment systems used in the unit. It also has responsibility for assessing all major components of assessment for each subject, particularly examination papers, either directly or by appointment of an Assessor who shall not be the examiner, or one of the examiners.

7 EXAMINATIONS

7.1 The University conducts examinations on behalf of the Academic Units during specified periods at the end of each session, as set out in the University Calendar. The organisation of these examinations is the responsibility of the Vice-Principal (Administration). Additionally, Academic Units may conduct examinations of various kinds either during the normal teaching periods, during the University examination periods or at other times.

7.2 With respect to these latter examinations:

(a) the Subject Information Sheet must inform students about the intention to conduct such an examination. Information about the date, time and place of the examination must be made available to the students as early as possible and confirmed, particularly should the examination be scheduled at an unusual time such as a Saturday;

(b) when held during a normal teaching period, the total time devoted to the conduct of the examination must not exceed the duration of that period, unless it is possible to arrange for additional time that does not conflict with the requirement for students to attend other scheduled classes; and

(c) only with the express permission of the Pro Vice-Chancellor shall an examination be conducted during a study recess period, and request for that permission must be made at the beginning of the relevant session.

8 EXAMINATION PAPERS

8.1 Examination papers are set by one or more members of teaching staff as approved by the Head. In setting an examination paper, the examiner or examiners have responsibility to the Head to ensure that:

(a) the paper is appropriate to the objectives of the subject;

(b) the instructions to students are clear, concise, unambiguous and free from error;

(c) the questions are clearly and unambiguously presented, are free from error and use commonly accepted terminology and language appropriate to the subject;

(d) the questions are fair, answerable and can be answered in the time allowed; and

(e) the length of the paper is appropriate to the duration of the examination.

8.2 The Assessment Committee for the academic unit, or the relevant appointed Assessor, has responsibility for reviewing the examination paper to determine whether the requirements set out in 8.1 are satisfied and, if not, to collaborate with the examiner or examiners to ensure that appropriate amendments are made.

8.3 Appropriately set and conducted examinations provide means of assessing:

(a) the quality of unassisted work of each student; and

(b) the capacity of students to work under constraints.

9 ASSESSMENT MARKS AND GRADES

9.1 Unless otherwise approved, the final assessment mark for each student in a subject shall be determined on the scale of 0 to 100% by the methods set out in the Subject Information Sheet issued for that subject.
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

- 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 peers. 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 the 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 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 publicised 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, indicating 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, for 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 the 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.
**CODE OF PRACTICE - STUDENTS**

Teaching at the University involves the active participation of both staff and students and consequently the responsibility to ensure that teaching is conducted in the most efficient and effective manner is shared. The "Code of Practice - Students" emphasises the responsibilities of students. A separate "Code of Practice - Teaching" has been prepared and distributed to all members of the teaching staff.

**Responsibilities of Students**

Students of the University have the following responsibilities:

(i) to become familiar with the rules governing the degree in which they are enrolled - these are set out in the University Calendars;

(ii) to become aware of the policies and practices of the Faculty or of the Academic Unit from which they take subjects - these are set out in the information sheet handed out by the end of the first week of lectures for every subject;

(iii) to take the initiative and consult with appropriate academic staff when problems arise;

(iv) to maintain satisfactory progress in their degrees - required rates of progress are set out in the degree rules;

(v) to meet deadlines for work to be submitted - these are set out in the information sheet handed out by the end of the first week of lectures for every subject;

(vi) to apply themselves to their studies to the best of their abilities;

(vii) to conduct themselves in an orderly and proper manner and not be disorderly in any class or in the Library or in any other place where such activity will adversely affect the working environment of others;

(viii) to attend all lectures, tutorials, seminars and practical work required for each subject in which they are enrolled; and

(ix) to submit original work for assessment, without plagiarising or cheating.

**Responsibilities of Staff**

Teaching staff of the University have responsibilities towards the students they teach, including preparing and presenting material at an appropriate standard within the resources available; informing students, by the end of the first week of formal contact for each subject, of the requirements for the subject and of the method(s) of assessment to be used for the subject; being available for reasonable periods of time during most weekdays of the session, the study weeks and the examination periods so that students may discuss aspects of the subject with them; assessing students' work fairly, objectively and consistently across the candidate for the subject; being available to students after marked material has been returned and after the final results have been released so that any student who seeks it can be shown how his/her result was determined.

**Plagiarism**

Plagiarism is the use of another person's work or idea as if it is your own.

The other person may be an author, critic, lecturer or another student. When it is desirable or necessary to use other people's material, take care to include appropriate references and attribution - do not pretend the ideas are your own. Be sure not to plagiarise unintentionally. The University's practice concerning plagiarism is set out under "Acknowledgment Practice/Plagiarism" in the University Calendars.

Plagiarism has led to expulsion from the University.

**Subject Information**

In the first week of lectures for every subject, students will receive written information about the subject which will provide details of the requirements of the subject, the method of assessment and all other relevant information about the subject.

**Required Reading**

The information sheet referred to above will also contain information about the text books for the subject, the reference books and any other required reading. As academic staff are constantly keeping up to date with new developments in their areas of interest, students should be aware that other relevant material that becomes available during the period in which the subject is taught may also be introduced as required reading.

**Reviewing Assessment Marks and Grades**

Result notices are distributed to students at the end of each session. The notice provides information about the marks and the grades awarded for each subject completed in the session. The range of marks appropriate to each of the grades used are set out in the University Calendar.

Students may, if they wish, obtain their actual marks in each subject from the Student Enquiry Office or from the Academic Unit concerned.

**Late Submission of Work**

Extensions of time to submit material for assessment can only be granted in exceptional circumstances. Written notice is given at the beginning of lectures for each subject of the requirements for the subject and this information includes the dates for the submission of work for assessment. "Pressure of work", either from employment or from other subjects, is not an acceptable reason for seeking an extension of time.

The University's dates for withdrawing from subjects are very generous and allow adequate time to sort out whether the workload involved in a course can be managed together with other commitments.
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:

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;

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;

1.3 the status of intellectual property arising from the work of candidates as part of their studies;

1.4 annual reporting requirements;

1.5 procedures by which either the candidate or the supervisor may make representations as appropriate should significant difficulties arise (grievance procedures);

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;

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 accordance with the requirements for the preparation and submission of theses, including the standard of presentation.

3. ADMISSION

The policy of the University is to 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 instances, 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, may 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 analysis 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 supervisory 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.

The “Code of Practice - Teaching” sets out the current policies and practices relating to teaching in the University of Wollongong. Its purpose is to make clear what students can reasonably expect and it should minimise difficulties caused by misunderstanding or poor communication.

Certain minimum requirements should be met by all academic staff involved in teaching and these requirements apply to all disciplines in the University. Staff teaching at the University, whether permanent or casual, are expected to follow the practices set out in the “Code of Practice - Teaching”, which has been compiled in consultation with the Deans and has been endorsed by the Academic Senate.

Responsibilities

Teaching at the University involves the active participation of both staff and students, and consequently the responsibility to ensure that teaching is conducted in the most efficient and effective manner is shared. The “Code of Practice - Teaching” emphasises both the responsibilities of staff and the associated teaching policies and practices.

The “Code of Practice - Students” details student responsibilities. Briefly, the list of student responsibilities includes the following: becoming familiar with the rules governing their degree; ensuring that they are aware of the policies and practices of their faculty or of the academic unit from which they take subjects; taking the initiative and consulting with appropriate academic staff when problems arise; seeking assistance as required or recommended; maintaining satisfactory progress; meeting deadlines for submitted work (or seeking to withdraw by the specified dates); not being disruptive in any class, the library or any other place where such activity will adversely affect the working environment of others; not cheating; not plagiarising.

Responsibilities of Staff

Staff of the University have the following responsibilities to the students they teach:

(i) to prepare and present material at an appropriate standard and within the resources available;
(ii) to inform students by the end of the first week of formal contact for each subject of the requirements for the subject including the method(s) of assessment to be used;
(iii) to be available for reasonable periods of time during most weekdays of session, the study weeks and the examination periods, so that students may discuss aspects of the subject with them;
(iv) to assess students’ work fairly, objectively and consistently across the candidature for the subject;
• an indication of the amount of time to be spent on the subject each week, noting that the Course Rules state that:

(v) to be available to students after marked material has been returned, and after the final results have been released, so that students who seek it can be shown how their result was determined;

(vi) to make reasonable accommodation within the established teaching environment for students with a disability.

Reasonable accommodation means agreeing to adoption of readily achievable additions or modifications to established teaching practices, which are easily accomplished and able to be carried out without unjustifiable hardship, for example, taping of lectures, magnification of exam text, extra time for exams, etc. Staff are asked to refer to the publication "Reasonable Accommodation distributed to all members of the University in December 1994.

Special arrangements, such as taping of lectures, are the responsibility of the student in consultation with the Disability Adviser and the lecturer concerned;

(vii) to notify the Head of Department or Dean as appropriate, of potential or actual conflicts of interest.

Information Handouts to Students

Every student in every subject should be given, by the end of the first week of formal contact for the subject, written details about the subject containing at least the following information:

• the name of the co-ordinator for the subject;
• the name(s) of the lecturer(s) for the subject and their location, University phone number and availability during the week to discuss aspects of the subject with students;
• a brief subject outline;
• the lecture times and the tutorial/seminar/laboratory times and any particular attendance requirements;
• the method of assessment for the subject (refer "ASSESSMENT DETAILS" below);
• a list of the major texts and reference books and other required reading known at the time. It should be noted in the handout that the list is not necessarily exhaustive and that other relevant reading may be added to the list as it becomes available during the session;
• any particular policies of the academic unit - e.g. the unit's policies relating to (a) late submission of work; (b) handling of requests for special consideration on the basis of medical certificates or University Counsellor's reports; and (c) supplementary examinations;
• an indication of the amount of time to be spent on the subject each week, noting that the Course Rules state that:

'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; and

• any material that needs to be purchased (eg laboratory manuals) and the costs involved.

Assessment Details

Each Academic Unit has an Assessment Committee which advises the Head of the Unit on the general forms of assessment to be used within the Unit.

There are many methods available for assessing student performance and different methods may be used, quite properly, even within Academic Units. The actual method to be used for a particular subject is determined by the Head of Unit in consultation with the co-ordinator and/or lecturer(s) involved in teaching.

Whatever the methods finally chosen, details must be included in the handout given to students during the first week of lectures.

The handout must include at least the following:

• the type(s) of assessment to be used for the subject;
• the weighting to be given to each component of the assessment in determining the final result;
• whether it is necessary to pass every component of the assessment or any particular component(s) of the assessment in order to be awarded a pass for the whole subject;
• whether the marks of students in particular components of the assessment will be modified or scaled in some way before a final grade is determined;
• any specific attendance requirements with which students need to comply in order to pass;
• whether contributions to tutorials/seminars are to be taken into account and how the contribution is to be assessed;
• details of material to be submitted for assessment during the session;
• the dates for submission of the material for assessment and the penalties applied for late submission;
• the length, style, etc. of the material to be submitted;
• the procedure for the submission of material for assessment; the location of the secure place where it is to be left, how to obtain a receipt; where it can be collected after assessment;
• the following standard statement on plagiarism:

"Plagiarism is the use of another person's work, or idea, as if it is your own. The other person may be an author, critic, lecturer or another student. When it is desirable or necessary to use other people's material, take care to include appropriate references and attribution - do not pretend the ideas are your own. Be sure you do not plagiarise unintentionally. Plagiarism has led to expulsion from the University."

Determining Assessment Methods

In determining the methods of assessment and weightings to be used for a particular subject and in setting the deadlines for the submission of material for assessment, consideration must be given to the following:

• the ways in which students can monitor their performance during the session. This could be by way of regular assignments, mid-session tests or some other means;
• the desirability of assessment to be based on more than one piece of work;
• the amount of time it will take to assess any material submitted by the students. Material submitted for assessment which is also intended to inform students and/or which is relevant to the final examination for the subject, should be marked and returned prior to the study week before the formal examinations. It is of little use to the students to have this type of assessable work returned after the final examination; and
• the ways in which any cases of plagiarism can be detected, particularly in larger classes with many tutorial groups where a number of markers are used.

From 1990 every unit has maintained a sessional assessment register for all subjects taught during the session. The register is available for perusal by students, staff, Deans, Visiting Committees and other interested bodies.

The Place of Written Work

All graduates should be able to express themselves well in writing. To this end, all students should be required to produce some form of written work on a regular basis as part of the assessment of every subject. Students in need of assistance in developing their writing skills should have the need explained by the lecturer.

Staff Availability

Students can expect to have reasonable access to the lecturers involved in teaching any subject in which they are enrolled. To this end, every full-time member of the staff should be on campus most days of the week during the sessions in which they are teaching; the study recess and examination periods, and be available to students for consultation during some of this time.

The Head of the Unit must be informed where absence from the campus for any reason during any week is likely to exceed two days.

Examinations

The University conducts examinations during specified periods at the end of each
session, as set out in the University Calendars. The organisation of these examinations is the responsibility of the Vice-Principal (Administration).

Other tests and practical/laboratory examinations may be conducted at other times during the session, provided:

(a) students are advised at the beginning of the session that the test/examination will be held during one of the normal teaching periods; and

(b) the time for the test/examination does not exceed the normal teaching period.

It may be necessary or desirable to conduct mid-session examinations on a Saturday morning, especially for the larger classes. Where this is necessary, students must be informed of the date in the handout provided by the end of the first week of lectures.

Examinations should not be held during the study recess unless there are exceptional circumstances and then only with the approval of the Pro Vice-Chancellor. Requests for such examinations must be made at the beginning of the session so that students can be given adequate notice if the variation is approved.

The Assessment Committee for each Academic Unit is responsible for reviewing examination papers set within the unit and for reviewing the results of assessments before they are presented to the Faculty Examination Committee. It is expected that all academic staff in the unit will be in attendance at these meetings (refer to "STAFF DEPARTING ON STUDY LEAVE" below).

There are procedures laid down by the University for submitting grades to the Faculty Examination Committee and these are circulated to Academic Units each session. Although these procedures make provision for withholding results in certain circumstances (see below), it is University policy that the Examination Committees determine a grade for every student in every subject. Except in rare instances, every student should know at the time of release of examination results how he/she fared in every subject undertaken. The only acceptable reasons for withholding results are as follows:

(a) "WM" grade: given where there are acceptable medical or compassionate reasons ("pressure of work" alone is not an acceptable reason);

(b) "WA" grade: given where, though the work is submitted on time, there are unavoidable delays in assessing the material (e.g. delayed response from an external examiner);

(c) "WO" grade: given where it is in the best interests of the students to withhold an Autumn session result until the end of Spring session.

Extensions of time to submit material for assessment should be given only where there are clearly extenuating circumstances. It is unfair to those who have striven to submit work on time for a student(s) to be given more time to complete work without a compelling case. Each case should be scrutinised closely by the unit and not simply left to an Examinations Committee to ensure fairness. If an Examinations Committee does not accept the reason given for withholding the result, it will declare a FAIL.

"Pressure of work" (i.e. workload rather than a job transfer after the specified withdrawal date) should not be accepted as a reason for an extension - the University's dates for withdrawal from subjects are generous (the last date for withdrawal without penalty is week 6 for a sessional subject, week 2 of the second session of offer for a double session subject and week 3 of the Summer session) and allow ample time for students to determine whether they can manage University study together with their non-University commitments.

Reviewing Assessment Marks and Grades

Students must be told how their final marks and grades are to be determined in each subject, or any part of the assessment making up the final marks and grades, in the handout. Any student who believes that the mark or grade awarded does not reflect their performance in the subject has the right to approach the lecturer(s) concerned (and, if necessary, the Head of the Unit and the Dean) and have the grading explained. A formal procedure for having a mark or grade reviewed has been established by the University and is available to students in the form of a handout from the Student Enquiries Office.

The procedure is reproduced below, for information:

"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 the proper procedures have been followed in relation to the assessment of the subject - the Committee's role is not to reassess the academic quality of the work."

Staff Departing on Study Leave

Staff proceeding on (study) leave must ensure that all assessment work and other teaching commitments have been completed, prior to departure, and that marks have been considered by the Assessment Committee of the Academic Unit. Another member of staff of the unit should be available to answer any subsequent enquiries about the subject if further information about the grade awarded for the subject is sought (refer "REVIEWING ASSESSMENT GRADES" above).
The Legislature of New South Wales enacts:

PART 1 - PRELIMINARY

Short title
1. This Act may be cited as the University of Wollongong 1989.

Commencement
2. (1) This Act (section 32 (2) and (3) excepted) commences on a day or days to be appointed by proclamation.

(2) The provisions of section 32 (2) and (3) commence on the date of assent to this Act.

Definitions
3. (1) In this Act:
"Council" means the Council of University;

"University" means the University of Wollongong established by this Act.

(2) In this Act, a reference to a graduate of the University is a reference to a person who is the recipient of a degree or diploma, or of such other award or certificate as may be prescribed by the by-laws, conferred or awarded:

(a) by the University;

(b) by or on behalf of any former institution that has, pursuant to this Act or otherwise, become a part of the University; or

(c) by any predecessor or any such institution.

(3) In this Act:
(a) a reference to a function includes a reference to a power, authority and duty; and

(b) a reference to the exercise of a function includes, where the function is a duty, a reference to the performance of the duty.

PART 2 - CONSTITUTION AND FUNCTIONS OF THE UNIVERSITY

Establishment of University
4. A University, consisting of:
(a) a Council;

(b) Convocation;

(c) the professors and full-time members of the academic staff of the University and such other members or classes of members of the staff of the University as the by-laws may prescribe; and

(d) the graduates and students of the University, is established by this Act.

The University of Wollongong Act 1989

An act with the respect to the constitution and functions of the University of Wollongong; to repeat the University of Wollongong Act 1972; and for other purposes.

PART 1 - PRELIMINARY

Short title
Commencement
Definitions

PART 2 - CONSTITUTION AND FUNCTIONS OF THE UNIVERSITY

Establishment of University
Incorporation of University
Functions of University
Facilities to be provided for students

PART 3 - THE COUNCIL

AUTHORITIES AND OFFICERS OF THE UNIVERSITY
The Council
Constitution of Council
Chancellor
Deputy Chancellor
Vice-Chancellor
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Convocation
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Incorporation of University

5. The University is a body corporate under the name of the University of Wollongong.

Functions of University

6. (1) The functions of the University (within the limits of its resources) include:

(a) the provision of educational facilities of university standard, having particular regard to the needs of the Illawarra region;

(b) the dissemination and increase of knowledge and the promotion of scholarship; and

(c) the conferring of the degrees of Bachelor, Master and Doctor and the awarding of diplomas and other certificates.

(2) The University has such other functions as are conferred or imposed on it by or under this Act or any other Act.

Facilities to be provided for students

7. The University may, for the purpose of exercising its functions, provide such facilities for its students as it considers desirable.

PART 3 - THE COUNCIL, AUTHORITIES AND OFFICERS OF THE UNIVERSITY

The Council

8. (1) There is to be a Council of the University.

(2) The Council is the governing authority of the University and has the functions conferred or imposed on it by or under this Act.

Constitution of Council

9. (1) The Council is to consist of:

(a) parliamentary members;

(b) official members;

(c) appointed members; and

(d) elected members.

(2) The parliamentary members comprise:

(a) one Member of the Legislative Council elected by that Council;

(ii) if there is a casual vacancy in the office of that member of the Council, as soon as practicable after that office becomes vacant; and

(b) one Member of the Legislative Assembly elected by that Assembly;

(i) as soon as practicable after the commencement of this section and thereafter as soon as practicable after each general election of Members of the Legislative Assembly; or

(ii) if there is a casual vacancy in the office of that member of the Council, as soon as practicable after that office becomes vacant.

(3) The official members comprise:

(a) the Chancellor (if the Chancellor is not otherwise a member of the Council);

(b) the Vice-Chancellor; and

(c) the person for the time being holding the office of:

(i) presiding member of the Academic Senate (if that person is not the Vice-Chancellor); or

(ii) deputy presiding member of the Academic Senate (if the presiding member is the Vice-Chancellor).

(4) The appointed members comprise 4 persons appointed by the Minister from, as far as practicable, the following categories:

(a) persons experienced in the field of education or the arts;

(b) persons experienced in technology, industry, commerce or industrial relations;

(c) persons who are practising, or have practised, a profession;

(d) persons associated with Illawarra and the South Coast.

(5) The elected members comprise:

(a) 2 persons:

(i) who are members of the academic staff of the University;

(ii) who have such qualifications as may be prescribed by the by-laws; and

(iii) who are elected by members of the academic staff of the University in the manner prescribed by the by-laws;

(b) one person:

(i) who is a member of the non-academic staff of the University;

(ii) who has such qualifications as may be prescribed by the by-laws; and

(iii) who is elected by members of the non-academic staff of the University in the manner prescribed by the by-laws;

(c) one person:

(i) who is a student of the University but who is not a member of the academic or non-academic staff of the University;

(ii) who has such qualifications as may be prescribed by the by-laws; and

(iii) who is elected by students of the University in the manner prescribed by the by-laws; and

(d) four persons:

(i) who are members of Convocation (but who are not members of the academic or non-academic staff of the University having the qualifications referred to in paragraph (a) (ii) or (b) (ii) or students of the University having the qualifications referred to in paragraph (c) (ii));

(ii) who have such qualifications as may be prescribed by the by-laws; and

(iii) who are elected by members of Convocation in the manner prescribed by the by-laws.

(6) The Council may appoint any other person to be a member of the Council and the person, on being appointed, is to be taken to be an appointed member of the Council in addition to the members appointed under subsection (4).

(7) No more than one person may hold office at any one time as an appointed member under subsection (6).

(8) Schedule 1 has effect in relation to the members and procedure of the Council.

Chancellor

10. (1) Whenever a vacancy in the office of Chancellor occurs, the Council must elect a person (whether or not a member of the Council) to be Chancellor of the University.

(2) The Chancellor, unless he or she sooner resigns as Chancellor or ceases to be a member of the Council, holds office for such period (not exceeding 4 years), and on such conditions, as may be prescribed by the by-laws.

(3) The Chancellor has the functions conferred or imposed on the Chancellor by or under this Act or any other Act.

Deputy Chancellor

11. (1) Whenever a vacancy in the office of Deputy Chancellor occurs, the Council must elect one of its
members to be Deputy Chancellor of the University.

(2) The Deputy Chancellor, unless he or she sooner resigns as Deputy Chancellor or ceases to be a member of the Council, holds office for 2 years from the date of election and on such conditions as may be prescribed by the by-laws.

(3) In the absence of the Chancellor, or during a vacancy in the office of Chancellor or during the inability of the Chancellor to act, the Deputy Chancellor has all the functions of the Chancellor.

**Vice - Chancellor**

12. (1) Whenever a vacancy in the office of Vice-Chancellor occurs, the Council must appoint a person (whether or not a member of the Council) to be Vice-Chancellor of the University.

(2) The Vice-Chancellor holds office for such period, and on such conditions, as the Council determines.

(3) The Vice-Chancellor is the principal executive officer of the University and has the functions conferred or imposed on the Vice-Chancellor by or under this or any other Act.

**Visitor**

13. (1) The Governor is the Visitor of the University but has ceremonial functions only.

(2) Accordingly, the Visitor has no functions or jurisdiction with respect to the resolution of disputes or any other matter concerning the affairs of the University (other than a matter involving the exercise of ceremonial functions only).

**Convocation**

14. (1) Convocation consists of:

(a) the members and past members of the Council;

(b) the graduates of the University;

(c) the professors and full-time members of the academic staff of the University and such other members or classes of members of the staff of the University as the by-laws may prescribe;

(d) graduates of the University of New South Wales who spent at least 3 years as properly enrolled students of the Wollongong University College established and maintained by the University of New South Wales under the provisions of the University of New South Wales Act 1968; and

(e) such graduates of other universities, or other persons, as are, in accordance with the by-laws, admitted as members of Convocation.

(2) Subject to the by-laws, meetings of Convocation are to be convened and the business at the meetings is to be as determined by Convocation.

(3) A quorum at any meeting of Convocation is to be such number of members as may be prescribed by the by-laws.

(4) Convocation has such functions as may be prescribed by the by-laws.

(5) The Council may establish a Standing Committee and such other committees of Convocation as it considers necessary.

**Academic Senate**

15. (1) There is to be an Academic Senate of the University, consisting of:

(a) the Vice-Chancellor; and

(b) such other persons as the Council may, in accordance with the by-laws, determine.

(2) Subject to subsection (1), the constitution and functions of the Academic Senate are to be as prescribed by the by-laws.

**PART - 4 FUNCTIONS OF COUNCIL**

**Division 1 - General**

**Powers of Council**

16. (1) The Council:

(a) may provide such courses, and may confer such degrees and award such diplomas and other certificates, as it thinks fit;

(b) may appoint and terminate the appointment of academic and other staff of the University;

(c) has the control and management of the affairs and concerns of the University and is to act in all matters concerning the University in such manner as appears to it to be best calculated to promote the objects and interests of the University;

(d) may borrow money for the purpose of exercising any of its functions, for the renewal of loans or for the discharge or partial discharge of any indebtedness to the Treasurer or to any bank, within such limits, to such extent and on such conditions as to security or otherwise as the Governor, on the recommendation of the Treasurer, may approve;

(e) may invest any funds belonging to or vested in the University;

(f) may establish or participate in such trusts, companies or other incorporated bodies as it considers appropriate to promote the objects and interests of the University;

(g) may engage in the commercial development of any discovery or invention, or of any intellectual property, in which the University has a right or interest;

(h) may establish and maintain branches and colleges of the University, within the University and elsewhere;

(i) may make loans and grants to students; and

(j) may impose fees, charges and fines.

(2) The powers of the Council under this section are to be exercised subject to the by-laws.

(3) Schedule 2 has effect in relation to the investment of funds by the Council.

**Delegation by Council**

17. The Council may, in relation to any matter or class of matters, in relation to any activity or function of the University, by resolution, delegate all or any of its functions (except this power of delegation) to any member or committee of the Council or to any authority or officer of the University or to any other person or body prescribed by the by-laws.

**Division 2 - Property**

**Powers of Council relating to property**

18. (1) The Council:

(a) may acquire by gift, bequest or devise any property for the purposes of this Act and may agree to carry out the conditions of any such gift, bequest or devise, and

(b) has the control and management of all property at any time vested in or acquired by the University and may, subject to this section, dispose of property in the name and on behalf of the University.

(2) The Council must not, except with the approval of the Minister, alienate, mortgage, charge or demise any lands of the University.

(3) Notwithstanding subsection (2), the Council may, without the approval of the Minister, lease any lands of the University if:

(a) the term of the lease does not exceed 21 years; and

(b) the Council is satisfied that it is to the benefit of the University, whether from a financial or educational standpoint or otherwise, that the lease be entered into.

(4) In the case of a lease of any lands of the University, or any renewal of the lease, to a residential college
affiliated with the University, the
lease:
(a) is to be for a term not exceeding 99
years; and
(b) is to be at a nominal rent; and
(c) is to contain a condition that the
lease is not to be assigned and such
other conditions as the Council
thinks fit.
(5) The rule of law against remoteness
of vesting does not apply to or in
respect of any condition of a gift,
bequest or devise to which the
University has agreed.

Powers of Council over certain
property vested in Crown

19. (1) Where any property used for the
conduct of the University is vested in
the Crown or a Minister of the
Crown (whether as Constructing
Authority or otherwise), the Council
has the control and management of
that property and is responsible for
its maintenance.

(2) Nothing in subsection (1) enables
the Council to alienate, mortgage,
charge or demise any land vested in
the Crown or a Minister of the
Crown (whether as Constructing
Authority or otherwise).

(3) Notwithstanding subsection (2),
the Council may (on behalf of the
Crown or a Minister of the Crown
(whether as Constructing
Authority or otherwise)
lease land of which it has, pursuant
to this section, the control and
management.

(4) Such a lease:
(a) is to be for a term not exceeding 21
years; and
(b) is to contain a condition that the
lease is not to be assigned and such
other conditions as the Council
thinks fit.

(5) the Council is, in the exercise of its
functions under this section, subject
to the control and direction of the
Minister.

Acquisition of Land

20. (1) The Minister may, for the purposes
of this Act, acquire land (including
an interest in land) by agreement of
by compulsory process in
accordance with the Land
Acquisition (Just Terms

(2) The Minister may do so only if the
University:

a) applies to the Minister for
acquisition of land; and
b) makes provision to the
satisfaction of the Minister for
the payment of the purchase
price or of compensation for
compulsory
acquisition
(6)

(3) For the purposes of the Public Works
Act 1912, any acquisition of land
under this section is taken to be for
an authorised work and the
Minister is, in relation to that
authorised work, taken to be the
Constructing Authority.

(4) Sections 34, 35, 36 and 37 of the
Public Works Act 1912 do not apply
in respect of works constructed
under this section.

Grant or transfer of certain land to
University

21. (1) If land on which the University is
conducted is vested in the Crown
or a Minister of the Crown
(whether as Constructing Authority
or otherwise), the land may:

(a) if it is vested in the Crown - be
transferred to the University subject
to such trusts, conditions,
covenants, provisions, exceptions
and reservations as the Minister for
Natural Resources thinks fit; or

(b) if it is vested in a Minister of the
Crown - be conveyed or transferred
to the University for such estate,
and subject to such trusts and rights
of way or other easements, as the
Minister in whom the land is vested
thinks fit.

(2) A conveyance, transfer or other
instrument executed for the
purposes of this section:

(a) is not liable to stamp duty under the
Stamp Duties Act 1920; and

(b) may be registered under any Act
without fee.

PART 5 GENERAL

Advance by Treasurer

22. The Treasurer may, with the
approval of the Governor, advance
to the Council money for the
temporary accommodation of the
University on such terms and
conditions in relation to repayment
and interest as may be agreed upon.

Financial Year

23. The financial year of the University
is

(a) if no period is prescribed as referred
to in paragraph (b) - the year
commencing on 1 January; or

(b) the period prescribed by the by-laws
for the purposes of this section.

No religious test or political
discrimination

24. A person must not, because of his or
her religious or political affiliations,
views or beliefs, be denied admission
as a student of the University or be
ineligible to hold office in, to
graduate from or to enjoy any
benefit, advantage or privilege of
the University.

Exemption from membership of
body corporate or Convocation

25. A student or graduate of the
University or a member of staff of
the University is entitled to be
exempted by the Council, on
grounds of conscience, from
membership of the body corporate
of the University or of Convocation,
or both.

Re-appointment or re-election

26. Nothing in this Act prevents any
person from being re-appointed or
re-elected to any office under this
Act if the person is eligible and
otherwise qualified to hold that
office.

Seal of University

27. The seal of the University is to be
kept in such custody as the Council
can direct and is only to be affixed
to a document pursuant to a
resolution of the Council.

By-laws

28. (1) The Council may make by-laws, not
inconsistent with this Act, for or
with respect to any matter that is
required or permitted to be
prescribed or that is necessary or
convenient to be prescribed for
carrying out or giving effect to this
Act and, in particular, for or with
respect to:

(a) the management, good government
and discipline of the University;

(b) the method of election of members
of the Council (other than the
parliamentary members) who are to
be elected;

(c) the manner and time of convening,
holding and adjourning the
meetings of the Council or
Academic Senate;

(d) the manner of voting (including
postal voting or voting by proxy)
at meetings of the Council or
Academic Senate;

(e) the functions of the presiding
member of the Council or Academic
Senate;
(f) the conduct and record of business of the Council or Academic Senate;

(g) the appointment of committees of the Council or Academic Senate;

(h) the quorum and functions of committees of the Council or Academic Senate;

(i) the resignation of members of the Council, the Chancellor, the Deputy Chancellor or the Vice-Chancellor;

(j) the tenure of office, stipend and functions of the Vice-Chancellor;

(k) the designation of members of staff of the University as academic staff, non-academic staff, full-time staff, part-time staff or otherwise;

(l) the number, stipend, manner of appointment and dismissal of officers and employees of the University;

(m) admission to, enrolment in and exclusion from courses of studies;

(n) the payment of such fees and charges, including fines, as the Council considers necessary, including fees and charges to be paid in respect of:

(i) entrance to the University;

(ii) tuition;

(iii) lectures and classes;

(iv) examinations;

(v) residence;

(vi) the conferring of degrees and the awarding of diplomas and other certificates;

(vii) the provision of amenities and services, whether or not of an academic nature; and

(viii) an organisation of students or of students and other persons;

(o) the exemption from, or deferment of, payment of fees and charges, including fines;

(p) without limiting the operation of paragraphs (n) and (o), the imposition and payment of penalties for parking and traffic infringements;

(q) the courses of lectures or studies for, the assessments for and the granting of degrees, diplomas, certificates and honours and the attendance of candidates for degrees, diplomas, certificates and honours;

(r) the assessments for, and the granting of, fellowships, scholarships, exhibitions, bursaries and prizes;

(s) the admission of students and former students of other universities and institutions of higher education to any status within the University or the granting to graduates of such universities or institutions, or other persons, of degrees or diplomas without examination;

(t) the establishment and conduct of places of accommodation for students (including residential colleges and halls of residence within the University) and the affiliation of residential colleges;

(u) the affiliation with the University of any educational or research establishment;

(v) the creation of faculties, schools, departments, centres or other entities within the University;

(w) the provision of schemes of superannuation for the officers and employees of the University;

(x) the form and use of academic costume;

(y) the form and use of an emblem of the University or of any body within or associated with the University;

(z) the use of the seal of the University; and

(aa) the making, publication and inspection of rules.

(2) A by-law has no effect unless it has been approved by the Governor.

Rules

29. (1) The by-laws may empower any authority (including the Council) or officer of the University to make rules (not inconsistent with this Act or the by-laws) for or with respect to any or all the matters referred to in section 28(1) (a) - (z) (except 28(1)(b) and (k)).

(2) A rule:

(a) has the same force and effect as a by-law; and

(b) may, from time to time, be amended or repealed by the Council (whether or not the Council is empowered to make such a rule), or by the authority or officer of the University for the time being empowered to make such a rule; and

(c) takes effect on the day on which it is published or on such later day as may be specified in the rule; and

(d) must indicate the authority or officer who made the rule and that it is made under this section.

(3) In the event of an inconsistency between a by-law and a rule, the by-law prevails to the extent of the inconsistency.

Recovery of charges, fees and other money

30. Any charge, fee or money due to the University under this Act may be recovered as a debt in any court of competent jurisdiction.

Repeal etc.

31. (1) The University of Wollongong Act 1972 is repealed.

(2) The Council of the University of Wollongong, as constituted immediately before the repeal of the University of Wollongong Act 1972, is dissolved.

(3) The persons holding office as members of the Council and Deputy Chancellor immediately before the repeal of the University of Wollongong Act 1972 cease to hold office as such on that repeal.

Savings and transitional provisions

32. (1) Schedule 3 has effect.

(2) For the purpose only of enabling the Council to be duly constituted on or after the commencement of section 9, elections may be conducted and appointments made before that commencement as if the whole of this Act were in force.

(3) A member who is elected or appointed to the Council under this section does not assume office before the commencement of section 9.

SCHEDULE 1 - PROVISIONS RELATING TO MEMBERS AND PROCEDURE OF THE COUNCIL

Term of office

1. Subject to this Act, a member of the Council holds office:

(a) in the case of a parliamentary member, until a member of the House of Parliament that elected the member is elected as a replacement;

(b) in the case of an official member, while the member holds the office by virtue of which he or she is a member;

(c) in the case of an appointed member, for such term (not exceeding 4 years) as may be specified in the member's instrument of appointment;

(d) in the case of an elected member referred to in section 9 (5) (a), (b) or (c), for such term (not exceeding 3 years) as may be prescribed by the by-laws; and
Vacation of office

2. The office of a member of the Council becomes vacant if the member:
   (a) dies;
   (b) declines to act;
   (c) resigns the office by writing under his or her hand addressed:
      (i) in the case of the parliamentary member who is a Member of the Legislative Council, to the President of the Legislative Council;
      (ii) in the case of the parliamentary member who is a Member of the Legislative Assembly, to the speaker of the Legislative Assembly;
      (iii) in the case of an appointed member (other than a member appointed by the Council under section 9 (6)), to the Minister; or
      (iv) in the case of an elected member or a member appointed by the Council under section 9 (6), to the Vice-Chancellor;
   (d) in the case of an appointed or elected member, becomes bankrupt, applies to take the benefit of any law for the relief of bankrupt or insolvent persons, compounds with his or her creditors or makes any assignment of his or her remuneration for their benefit;
   (e) in the case of an appointed or elected member, becomes a temporary patient or a continued treatment patient within the meaning of the Mental Health Act 1958, a forensic patient within the meaning of the Mental Health Act 1983 or a protected person within the meaning of the Protected Estates Act 1983;
   (f) is convicted in New South Wales of an offence that is punishable by penal servitude or imprisonment for 12 months or more or is convicted elsewhere than in New South Wales of an offence that, if committed in New South Wales, would be an offence so punishable;
   (g) in the case of an appointed or elected member, is absent from 3 consecutive meetings of the Council of which reasonable notice has been given to the member personally or in the ordinary course of post and is not, within 6 weeks after the last of those meetings, excused by the Council for his or her absence;
   (h) in the case of the parliamentary member elected by the Legislative Council:
      (i) ceases to be a Member of that Council otherwise than by reason of section 22B (1) (c) of the Constitution Act 1902; or
      (ii) ceases to be a Member of that Council by reason of section 22B (1) (c) of that Act and does not become a candidate at the next periodic Council election within the meaning of section 3 of that Act or, as the case may be, becomes a candidate but is not elected;
      (i) in the case of the parliamentary member elected by the Legislative Assembly:
      (j) ceases to be a Member of that Assembly otherwise than by reason of its dissolution or its expiration by affliction of time; or
      (ii) ceases to be a Member of that Assembly by reason of its dissolution or its expiration by affliction of time and does not become a candidate at the next general election of Members of that Assembly or, as the case may be, becomes a candidate but is not elected;
   (j) in the case of an elected member, ceases to be qualified for election;
   (k) in the case of an appointed member (other than a member appointed by the Council under section 9 (6)), is removed from office by the Minister; or
   (l) in the case of a member appointed by the Council under section 9 (6), is removed from office by the Council.

Filling of vacancy in office of member

3. (1) If the office of an appointed or elected member of the Council becomes vacant, a person is, subject to this Act and the by-laws, to be appointed or elected to fill the vacancy.

Committees of the Council

4. (1) The Council may establish committees to assist it in connection with the exercise of any of its functions.
   (2) It does not matter that any or all of the members of a committee are not members of the Council.
   (3) The procedure for the calling of meetings of a committee and for the conduct of business at those meetings is to be as determined by the Council or (subject to any determination of the Council) by the Committee.

Liabilities - Council members and others

5. No matter or thing done by:
   (a) the University, the Council or a member of the Council; or
   (b) any person acting under the direction of the University or the Council, if the matter or thing was done in good faith for the purpose of executing this or any other Act, subjects a member of the Council or a person acting personally to any action, liability, claim or demand.

General procedure

6. The procedure for the calling of meetings of the Council and for the conduct of business at those meetings is, subject to this Act and the by-laws, to be as determined by the Council.

Presiding member

7. (1) The Chancellor is to preside at all meetings of the Council at which the Chancellor is present.
   (2) At any meeting of the Council at which the Chancellor is not present, the Deputy Chancellor is to preside and, in the absence of both the Chancellor and the Deputy Chancellor, a member elected by and from the members present is to preside.
   (3) Except as provided by subclause (4) at the meetings of a committee constituted by the Council a member appointed by the Council (or, if no member is so appointed, elected by and from the members present) is to preside.
   (4) At any meeting of a committee constituted by the Council at which the Chancellor is present, the Chancellor is entitled, if he or she so desires, to preside at that meeting.

Quorum

8. At any meeting of the Council, a majority of the total number of members for the time being of the Council constitutes a quorum.

Voting

9. A decision supported by a majority of the votes cast at a meeting of the Council at which a quorum is present is the decision of the Council.

SCHEDULE 2 - POWERS OF INVESTMENT

Definitions

1. In this Schedule:
   "class A funds" means:
   (a) private gifts, other than private gifts which may be applied without restriction or limitation;
   (b) for any purposes of the University; or
3. The Council may invest any class A funds or class B funds held by the University:

(a) in such manner as may be authorised by the Public Authorities (Financial Arrangements) Act 1987; or

(b) at any time at which the Public Authorities (Financial Arrangements) Act 1987 does not apply to the Council so as to authorise any such investment:

(ii) for any of the purposes of any faculty, department, school or foundation within the University;

(b) grants; or

(c) student tuition fees;

"class B funds" means money held by the University which is not class A funds;

"grant" means money granted to the University by or on behalf of the Government of:

(a) the State of New South Wales; or

(b) the Commonwealth, or any part of that money;

"investment pool" means an investment pool established by the Council under this Schedule;

"pooled item" means:

(a) a private gift;

(b) a grant;

(c) student tuition fees;

(d) class B funds

(e) securities; or

(f) real property, forming part of an investment pool;

"private gift" means:

(a) money, not being a grant, given to the University;

(b) money obtained from the conversion of property given to the University; and

(c) money obtained from the investment or use of property given to the University;

"securities" means debentures, stocks, shares, bonds and notes.

Terms of trust to prevail

2. The terms of:

(a) in the case of a private gift - any instrument creating a trust with respect to that private gift;

(b) in the case of a grant - the instrument of grant; and

(c) in the case of property other than money, given to the University - any instrument creating a trust with respect to that property, have effect despite clauses 3, 4 and .

Investment of money

3. The Council may invest any class A funds or class B funds held by the University:

(a) in such manner as may be authorised by the Public Authorities (Financial Arrangements) Act 1987; or

(b) at any time at which the Public Authorities (Financial Arrangements) Act 1987 does not apply to the Council so as to authorise any such investment:

(i) in accordance with and subject to the Trustee Act 1925; or

(ii) in any other manner approved by the Minister with the concurrence of the Treasurer.

Investment pools

4. (1) The Council may establish and maintain one or more investment pools for the collective investment of property held by the University.

(2) The Council may from time to time:

(a) bring into or withdraw from an investment pool the whole or any part of any class A funds or class B funds held by the University; or

(b) bring into an investment pool:

(i) securities, other than securities in respect of which the donor has, in an instrument creating a trust in respect of those securities, specified that the income from those securities is to be applied for a purpose other than the general purposes of the University; or

(ii) real property, other than real property in respect of which the donor has, in an instrument creating a trust in respect of that real property, specified that the income from that real property is to be applied for a purpose other than the general purposes of the University; or

(iii) in any other manner approved by the Council at the date of distribution; and

(iv) in any manner approved by the Council at the date of distribution.

(3) If the Council distributes the income of an investment pool, it may, in respect of a pooled item (other than a pooled item referred to in subclause (2) (a) or (b) credit the income of the investment pool to any account kept by it.

Nature of private gift etc. not affected by pooling

6. (1) The inclusion in an investment pool of a pooled item (being a private gift, a grant, student tuition fees or class B funds) does not affect the identity of the pooled item as a private gift, a grant, student tuition fees or class B funds.

(2) The inclusion in an investment pool of a pooled item does not affect any trust to which the pooled item was subject immediately before its inclusion in the investment pool.

(3) On the withdrawal from an investment pool of a pooled item (being a private gift, a grant, student tuition fees or class B funds) the pooled item is to continue to be subject to any trust to which it was subject immediately before its inclusion in the investment pool.

(4) On the withdrawal from an investment pool of money to the value attributable to any securities or real property by the Council under clause 4 (2) (b), that money is to be subject to any trust to which those securities were subject, or to which that real property was subject, immediately before its inclusion in the investment pool.
SCHEDULE 3 - SAVINGS AND TRANSITIONAL PROVISIONS

University a continuation of the old University

1. The University is a continuation of, and the same legal entity as, the University of Wollongong established by the University of Wollongong Act 1972.

Chancellor

2. (1) The person who, immediately before the commencement of this clause, held office as the Chancellor of the University of Wollongong:
   (a) remains Chancellor of the University; and
   (b) continues to hold office as such (unless he or she sooner resigns) for the residue of the term for which he or she was appointed as Chancellor.

   (2) Section 10 (2) does not apply to or in respect of the Chancellor referred to in this clause.

Deputy Chancellor

3. The Council must, at its first meeting that takes place after the commencement of this clause or as soon as practicable thereafter, appoint a Deputy Chancellor of the University.

Vice-Chancellor

4. (1) The person who, immediately before the commencement of this clause, held office as Vice-Chancellor of the University of Wollongong:
   (a) remains Vice-Chancellor of the University; and
   (b) continues to hold office as such (unless he or she sooner resigns) for the residue of the term for which he or she was appointed.

   (2) Section 12 (2) does not apply to or in respect of the Vice-Chancellor referred to in this clause.

Savings of delegations

5. Any delegation made or taken to have been made by the Council of the University of Wollongong under the University of Wollongong Act 1972 is to be taken to be a delegation under this Act by the Council.

Existing investments

6. Noting in this Act affects the validity of any investment made on behalf of the University before the commencement of Schedule 2.

Academic Senate

7. Pending the making of appropriate by-laws, the constitution and procedure of the Academic Senate of the University is to be the same as it was immediately before the commencement of this clause.

By - laws

8. The University of Wollongong By-laws:
   (a) continues in force as if it had been made by the Council; and
   (b) may be amended and revoked accordingly.

Visitors

9. (1) Section 13 (2) extends to disputes and other matters arising before the commencement of this clause.

   (2) However, if an inquiry by or at the direction of the Visitor into a dispute or other matter has commenced or been completed before the commencement of this clause, the dispute or other matter is to be dealt with and determined as if the University Legislation (Amendment) Act 1994 had not been enacted.

Effect of the University Legislation (Amendment) Act 1994 on existing by-laws and rules

10. (1) Any by-law made for the purposes of section 29 and in force immediately before the commencement of this clause is taken to have been made under this Act as amended by the University Legislation (Amendment) Act 1994, but only to the extent to which it could have been made under this Act if this Act had been so amended at the time the by-law was made.

   (2) Any rule in force immediately before the commencement of this clause is taken to have been made under this Act as amended by the University Legislation (Amendment) Act 1994, but only to the extent to which it could have been made under this Act if this Act had been so amended at the time the rule was made.
HIS Excellency the Governor, with the advice of the Executive Council, and in pursuance of the University of Wollongong Act 1989, has been pleased to approve the By - Law made by the Council of the University of Wollongong and set forth hereunder.

Minister for School Education and Youth Affairs.

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SCHEDULE

The Council of the University of Wollongong hereby makes the following by-law:

CHAPTER 1 - PRELIMINARY
Citation
1. This By-law may be cited as the University of Wollongong By-law 1991.

Arrangement
2. This By-law is divided as follows:

CHAPTER 1 - PRELIMINARY
CHAPTER 2 - COUNCIL MEMBERSHIP
CHAPTER 3 - MEMBERSHIP OF THE UNIVERSITY
CHAPTER 4 - THE COMMON SEAL
CHAPTER 5 - CHANCELLOR AND DEPUTY CHANCELLOR
CHAPTER 6 - VICE-CHANCELLOR
CHAPTER 7 - COURSES AND DEGREES
CHAPTER 8 - HONORARY DEGREES
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SCHEDULE

"Academic Senate" means the Academic Senate of the University;

"academic staff member" means a member of the Council elected under section 9(5) (a) of the Act;

"Convocation member" means a member of the Council elected under section 9(5) (d) of the Act;

"Council" means the Council of the University;

"student member" means a member of the Council elected under section 9(5) (c) of the Act;

"the Act" means the University of Wollongong Act, 1989;

"University" means the University of Wollongong.

(2) In this By-law, a reference to an authority, officer or office is a reference to that authority, officer or office in and of the University.

CHAPTER 2 - COUNCIL MEMBERSHIP

Academic staff membership
5. (1) or the purposes of section 9(5) (a) of the Act the academic staff members are to comprise 2 persons who are qualified and elected in accordance with this clause.

(2) The Returning Officer is to keep a roll (in this By-law referred to as the Roll of Academic Staff) containing
the names and last known addresses of:

(a) professors within the University; and

(b) persons holding the positions of associate professor, reader, senior lecturer, lecturer, principal tutor and teaching fellow within the University and such other positions within the University as may be specified from time to time in resolutions made by the Council for the purposes of this subclause; and

(c) officers holding the positions of Deputy Vice-Chancellor and Pro Vice-Chancellor within the University and such other positions within the University as may be specified from time to time in resolutions made by the Council for the purposes of this subclause.

(3) The persons qualified to be elected as academic staff members are those persons whose names appear on the Roll of Academic Staff at the date and time prescribed pursuant to clause 3(2) of the Schedule for the close of nominations.

(4) The persons entitled to vote for the academic staff members are those persons whose names appear on the Roll of Academic Staff at the date and time prescribed pursuant to clause 5(4) of the Schedule for the receipt of completed voting papers.

(5) The provisions of the Schedule apply to an election conducted under this clause.

Non-academic staff membership

6. (1) For the purposes of section 9(5)(b) of the Act, the non-academic staff member is to be qualified and elected in accordance with this clause.

(2) The Returning Officer is to keep a roll (in this by-law referred to as the Roll of Non-academic Staff) containing the names and last known addresses of the full-time staff of the University for at least 2 days per week:

(a) on a continuing basis; or

(b) for a minimum fixed period of 2 years.

(4) The persons qualified to be elected as the non-academic staff member are those persons whose names appear on the Roll of Non-academic Staff at the date and time prescribed pursuant to clause 3(2) of the Schedule for the close of nominations.

(5) The persons entitled to vote for the non-academic staff member are those persons whose names appear on the Roll of Non-academic Staff at the date and time prescribed pursuant to clause 5(4) of the Schedule for the receipt of completed voting papers.

(6) The provisions of the Schedule apply to an election conducted under this clause.

Casual vacancies

9. (1) For the purposes of clause 3 of Schedule 1 to the Act, the prescribed manner for filling a casual vacancy is, subject to subclause (2), the same manner as at which the position to be filled was vacated.

(2) In the event of a casual vacancy in the office of any elected member of the Council occurring within less than one year of the date on which the member's term of office would have expired, such vacancy is to be filled by some person, whose name appears on the appropriate roll kept under this Chapter, appointed by the Council in the place of that member, the manner of such appointment being as described in clause 10.

Elections to fill certain casual vacancies for elected members

10. (1) An election to fill a casual vacancy in the office of an elected member of the Council in the circumstances referred to in clause 9(2) is to be held by the Returning Officer at a scheduled meeting of the Council of those members for the time being appointed and elected pursuant to section 9(2), (3), (4) and (5) of the Act.

(2) The Returning Officer is to advise the members of the Council of the election to be held, including notice of the election with the papers circulated with the agenda for the meeting.

(3) The election is to be effected in such manner may be determined at the meeting.

Convocation membership

8. (1) For the purposes of section 9(5)(d) of the Act, the Convocation members are to comprise 4 persons who are qualified and elected in accordance with this clause.

(2) The Returning Officer is to keep a roll (in this by-law referred to as the Roll of Convocation) containing the names and last known addresses of the members of the Convocation.

(3) The persons qualified to be elected as Convocation members are those persons whose names appear on the Roll of Convocation, other than members of the staff and students of the University, at the date and time prescribed pursuant to clause 3(2) of the Schedule for the close of nominations.

(4) The persons entitled to vote for the Convocation members are those persons whose names appear on the Roll of Convocation at the date and time prescribed pursuant to clause 5(4) of the Schedule for the receipt of completed voting papers.

(5) The provisions of the Schedule apply to an election conducted under this clause.

Rolls

11. (1) An election conducted under this Chapter is not be invalid by reason only of the omission of the name of a person who is entitled to be enrolled on a roll kept under this Chapter if the omission is made from the Roll of Academic Staff, the Roll of Non-academic Staff, the Roll of Students or the Roll of Convocation, as the case may be.

(2) A person who is entitled to be enrolled on a roll kept under this Chapter may inspect that roll during the time that the office of the Vice-Principal (Administration) is open.

Term of office

12. (1) For the purposes of clause 1(d) and (e) of Schedule 1 to the Act:

(a) the term of office of an academic staff member is 3 years;
15. The common seal of the University is to be affixed to any instrument or document in the presence of, and the affixing of the seal is to be attested by:

(a) the Chancellor, the Deputy Chancellor, the Vice-Chancellor or any other member of the Council; and
(b) the Vice-Principal

Register of use of common seal

16. (1) The Vice-Principal (Administration) is to maintain a register of the use of the common seal.

(2) The register of the use of the common seal is to record:

(a) the nature of, and parties to, an instrument or document to which the common seal was affixed;
(b) the date on which the common seal was affixed to an instrument or document; and
(c) the names of the persons who attested the affixing of the common seal.

CHAPTER 5 - CHANCELLOR AND DEPUTY CHANCELLOR

Term of office - Chancellor

17. For the purposes of section 10(2) of the Act, the prescribed period for which the Chancellor is to hold office is 4 years from the date of the Chancellor's election.

Election

18. An election to fill a vacancy in the office of Chancellor or Deputy Chancellor is to be held at an ordinary meeting of the Council.

Nomination

19. A nomination for the office of Chancellor or Deputy Chancellor:

(a) must be signed by 2 persons who are eligible to vote at the election for office of Chancellor or Deputy Chancellor, as the case may be; and
(b) must be submitted in writing to the Vice-Principal (Administration) before the commencement of the item of business of the meeting of the Council during which that election is to be held.

CHAPTER 4 - THE COMMON SEAL

 Custody of common seal

14. The common seal of the University is to be kept in the custody of the Vice-Principal (Administration).

Use of common seal

15. The common seal of the University is to be affixed to any instrument or document in the presence of, and the affixing of the seal is to be attested by:

(a) the Chancellor, the Deputy Chancellor, the Vice-Chancellor or any other member of the Council; and
(b) the Vice-Principal

(b) to be responsible to the Council for the general academic, administrative, financial and other business of the University;
(c) to exercise a general supervision over all staff and students of the University; and
(d) to do all things ancillary to those referred to in paragraphs (a), (b) and (c).

Functions and authority delegated by Council

22. Without prejudice to the generality of clause 21, the Vice-Chancellor is to exercise such functions and authority as may from time to time be delegated by the Council.

Powers of Vice-Chancellor in relation to University bodies

23. The Vice-Chancellor is, by virtue of the office of Vice-Chancellor, a member of any board, committee or faculty within the University and, unless the Council determines otherwise, may preside at a meeting of any such board, committee or faculty.

CHAPTER 7 - COURSES AND DEGREES

Degrees and diplomas

24. The degrees and diplomas to be conferred and awarded by the University are to be specified in rules made by the Council for the purposes of this clause.

Award of degrees and diplomas

25. The requirements to be satisfied for the award of degrees and diplomas, including the conditions governing the admission of students of other universities and institutions of higher education to any status within the University, are to be specified in rules made by the Council for the purposes of this clause.

Entrance standards and conditions of admission

26. The entrance standards for students and the conditions to be satisfied for admission to the University are to be specified in rules made by the Council for the purposes of this clause.

CHAPTER 8 - HONORARY DEGREES

Conferring of honorary degrees

27. The Council may confer, honours clause, any degree of the University.
Honorary Degrees and Ceremonial Awards Committee

28. (1) The Council is to establish an Honorary Degrees and Ceremonial Awards Committee which is to consist of the Chancellor, the Vice-Chancellor and such other persons as may be specified from time to time in resolutions made by the Council for the purposes of this clause.

(2) The Honorary Degrees and Ceremonial Awards Committee may recommend to the Council the persons on whom honorary degrees may be conferred and the criteria for selection of any such persons.

CHAPTER 9 - ACADEMIC COSTUME

Academic costume

29. (1) The academic costume for the Council consists of a gown of black amak with blue and trimmed with gold and a tassel.

(2) The form of academic costume for the Deputy Chancellor, the Vice-Chancellor, members of the Council, the officers of the University, the graduates and the students of the University is to be as specified from time to time in resolutions made by the Council for the purposes of this subclause.

Usages of academic costume

30. The usages of the academic costumes are to be determined by resolution of the Council.

Membership

31. (1) For the purposes of section 14(1)(c) of the Act, the following classes of members of the staff of the University (in addition to the members of staff specified in clause 13(b) are prescribed as members of Convocation:

(a) the full-time non-academic staff of the University who are graduates of other universities;

(b) the part-time academic staff of the University.

(2) For the purposes of section 14(1)(e) of the Act:

(a) graduates of other universities who are resident within such local government areas as the Council may from time to time by resolution determine; and

(b) such other persons as the Council may from time to time by resolution determine, may, upon application made in writing to the Council, be admitted as members of Convocation by resolution of the Council.

(3) A person who becomes a member of Convocation pursuant to subclause (2) may resign from membership of Convocation by giving written notice to the Vice-Principal (Administration).

Chairman

32. (1) Convocation is:

(a) at its first meeting, to elect a person, being one of its members, to be Chairman of Convocation; and

(b) whenever a vacancy occurs in the office of Chairman, at its first meeting following the occurrence of the vacancy, to elect a person, being one of its members, to be Chairman of Convocation.

(2) The term of office of the Chairman of Convocation is unless the Chairman sooner resigns or otherwise ceases to hold office, 3 years.

(3) The Chairman of Convocation is to preside at all meetings of Convocation, but at any meeting of Convocation at which the Chairman is not present, a member elected by the members present from among their numbers is to preside.

(4) A quorum at any meeting of Convocation is such number (being not less than 25) as may be specified by resolution made by the Council for the purposes of this subclause.

Powers

33. Convocation is:

(a) to report directly to the Council on any matters pertaining to the welfare of the University including any matter referred to it by the Council; and

(b) to have such other powers, authorities, duties and functions as may be specified from time to time in resolutions made by the Council for the purposes of this clause.

CHAPTER 11 - MANAGEMENT OF THE UNIVERSITY

Rules relating to management of University

34. The Council may make rules for or with respect to all matters with respect to which the Council is empowered to make by-laws under section 28(1) (other than paragraphs (b) and (k) of the Act.

Membership

35. The Academic Senate is to consist of:

(a) the Vice-Chancellor; and

(b) such other persons as may be specified from time to time in resolutions made by the Council for the purposes of this paragraph.

Functions

36. The Academic Senate is the principal academic body of the University and has responsibility for academic Council and the Vice-Chancellor on matters relating to teaching, scholarship, research and related activities in accordance with terms of reference specified from time to time in resolutions made by the Council for the purposes of this clause.

SCHEDULE

Returning Officer

1. (1) The election is to be conducted by the Returning Officer.

(2) The Returning Officer is to be the Vice-Principal (Administration), or a deputy appointed by that Vice-Principal.

(3) In the performance of any of the Returning Officer's functions under this By-law, the Returning Officer may be assisted by such persons as the Returning Officer appoints.

(4) Subject to this By-law, the election is to be effected in such manner as the Returning Officer determines.

Timing

2. (1) In the conduct of the election of academic staff members, the non-academic staff member and the student member, the following intervals are to be allowed:

(a) between the date of publication or display of the notice of election and the date and time for close of nominations - not less than 14 and not more than 28 days;

(b) between the close of nominations and the dispatch of voting papers - not more than 14 days; and

(c) between the dispatch of voting papers and the date and time by which completed voting papers must be returned to the Returning Officer - not less than 14 and not more than 28 days.

(2) In the conduct of the election of Convocation members, the following intervals are to be allowed:

(a) between the date of publication of the notice of election and the date and time for close of nominations - not less than 14 and not more than 28 days;

(b) between the close of nominations and the dispatch of voting papers - not more than 28 days; and

(c) between the dispatch of voting papers and the date and time by which completed voting papers
must be returned to the Returning Officer - not less than 14 and not more than 60 days.

Notice of election

3. (1) The Returning Officer is to give notice of the election:

(a) in the case of the election of the academic staff members or the non-academic staff member - by displaying the notice on a notice board at the University; and

(b) in the case of the election of the student member and the Convocation members - by publishing the notice at least once in a newspaper circulating within the Wollongong district and the State.

(2) The notice of election is:

(a) to state the number of persons to be elected and the qualifications for candidature;

(b) to specify the form of the nomination; and

(c) to prescribe a date and time by which nominations must reach the Returning Officer.

Acceptance of nomination

4. (1) The Returning Officer is not to accept a nomination unless:

(a) it is in writing in the form specified in the notice of election;

(b) it is signed by two persons whose names appear on the appropriate roll kept under Chapter;

(c) the person nominated has consented to stand for election by a notice in writing given to the Returning Officer before the time prescribed for the close of nominations or by a notation to that effect on the nomination form; and

(d) it is received by the Returning Officer before the time prescribed for the close of nominations.

(2) If, following the close of nominations, the number of accepted nominations does not exceed the number of persons to be elected, the Returning Officer is to declare the persons nominated to be elected.

(3) If, following the close of nominations, the number of accepted nominations exceeds the number of persons to be elected, the Returning Officer is to send by post or by other means a voting paper to those persons entitled to vote at the address shown in respect of those persons on the Roll of Academic Staff, the Roll of Non-academic Staff, the Roll of Students or the Roll of Convocation, as the case may be.

Voting paper

5. (1) Each voting paper is to contain the names of the candidates in alphabetical order and is to be initialed by the Returning Officer or the Returning Officer’s deputy.

(2) Each voting paper is to be accompanied by a form of declaration that the person so voting is qualified to vote at the election and by 2 envelopes, one marked “voting paper” and the other addressed to the Returning Officer.

(3) Where a voting paper has been lost or destroyed, a duplicate may be issued by the Returning Officer upon receipt of a written declaration that the voting paper has been lost or destroyed.

(4) With each voting paper sent in accordance with clause 3(4), there is to be sent a notice which:

(a) specifies the date and the time by which the completed voting paper must reach the Returning Officer;

(b) contains instructions for the transmission of the completed voting paper to the Returning Officer; and

(c) states the date and time when the votes will be counted.

Voting

6. The voter is to mark the voting paper by making a cross opposite the name of each candidate for whom the voter votes, but the number of candidates for whom a vote is cast is not to exceed the number of persons to be elected.

Counting of votes

7. (1) At the date and time appointed for the counting of votes, the Returning Officer or the Returning Officer’s deputy is:

(a) to open the outer envelope;

(b) if satisfied that the form of declaration has been properly completed, to place the envelope marked “voting paper” with other similar envelopes;

(c) following the opening of all of the outer envelopes, to open the envelopes marked “voting paper” and count the number of votes given to each candidate.

(2) A voting paper received by the Returning Officer after the close of the poll is not to be taken into account at the election.

(3) The Returning Officer is to reject as informal any voting paper in which the voter has not complied with the provisions of this Schedule.

Declaration of the election

8. (1) where an election is held to elect one member, the Returning Officer is to declare as elected the candidate who receives the highest number.

(2) Where an election is held to elect more than one member, the Returning Officer is to declare as elected the persons who receive the highest number of votes.

Equality of votes

9. (1) Where there is an equality of votes, the person to be elected is to be determined by lot by the Returning Officer.

(2) For the purpose of subclause 1, “determined by lot” means determination in the following manner:

The name of each candidate is to be written on separate and similar slips of paper, and the slips having been folded so as to prevent identification and mixed and drawn at random, the candidate whose name is first drawn is to be the elected candidate.

10. Each candidate is entitled to nominate a scrutineer to be present at the counting of votes and any determination by lot.

Custody of ballot papers

11. The voting papers in an election are to be kept in safe custody by the Returning Officer for a period of at least 4 months after the election and may be destroyed at any time after that period, except that if any objection has been received within that period about an election the papers for that election may only be destroyed with the approval of the Council.

EXPLANATORY NOTE

The object of this By-law is to make provisions necessary or convenient for the purpose of carrying out or giving effect to the University of Wollongong Act 1989. In particular, the By-law deals with:

(a) the appointment and functions of the Chancellor and Deputy Chancellor; and

(b) the qualifications and method of election of members of the Council; and

(c) the procedures for meetings of the Council and the custody and use of the seal of the University; and

(d) the functions of the Vice-Chancellor of the University; and

(e) the constitution and functions of the Academic Senate; and
(f) authorising the Council to make rules including rules relating to the degrees and diplomas to be awarded by the University, the entrance standards and conditions of admission for students and the management, generally, of the University.
FACULTY OF ARTS

FACULTY OFFICE

Dean: Professor James Wieland
Sub Dean: Dr Peter M Sales
Executive Officer: Mr Warren Mahoney (042) 213395
Administrative Assistant: Ms Marie Ferri (042) 213369

MEMBER UNITS

The Faculty of Arts is made up of the following Units

- English
- History and Politics
- Maritime Policy
- Modern Languages
- Multicultural Studies
- Philosophy
- Science and Technology Studies
- Sociology

RESEARCH COURSES AVAILABLE

The Faculty offers Honours Master of Arts and Doctor of Philosophy degrees by research.

POSTGRADUATE PROGRAMS

Postgraduate programs are available in the Faculty in the following areas:

- Cultural Studies
- English Studies
- History
- History and Education
- International Relations
- Maritime Policy
- Modern Languages
- Philosophy
- Politics
- Post-Colonial Literatures
- Science and Technology Studies
- Social Policy
- Sociology
- Textual Studies, Media and Linguistics
- Women's Studies

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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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Leonie Fromhold/Lynell Reed

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John Minns, BA UNSW

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Marguerite Wells, BA Monash, MA(AS) ANU, DPhil Oxf

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Noriko Dethlefs, BEd MA Syd
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Research Fellow
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Senior Research Assistant
Colleen Mitchell, BA

Administrative Assistant
Paola Ciccarelli/Lynald Manton
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Mr Salvatore Chiodo, Consular Agent of Italy
Dr William Jonas, AM, Principal, Australian Institute of Aboriginal and Torres Strait Islander Studies
Dr Lesley Lynch, Director, Teaching and Learning, Department of School Education, Metropolitan East Region
Mr Eric Meadows, Director, International Office, University of Wollongong
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Associate Professor Ros Pesman, Department of History, University of Sydney
Mr Anthony Rebello, WINTV
Ms Jill Sutton, BA(Hons)
Mr Ian Templeman, AM, Assistant Director-General, Cultural and Educational Services, National Library of Australia
Mr Robert Tickner
Dr Ron Wise, Chairman, Cape Range Ltd
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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*Not on offer in 1997
For further details, see Course Requirements below.

COURSE REQUIREMENTS

1. HONOURS MASTER OF ARTS
2. MASTER OF ARTS

(Administered jointly by the Departments of English, Sociology and Science and Technology Studies and the Centre for Multicultural Studies.)

The Masters courses in Cultural Studies (Master of Arts and Honours Master of Arts) involve interdisciplinary programs that bring together teaching and research from the Departments of English, Sociology and Science and Technology Studies and the Centre for Multicultural Studies. They aim to provide graduates with knowledge and critical skills that will benefit them across a range of disciplines and professions.

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 examples, 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 for 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 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

ENGL912 Representing India
Autumn session: 8 credit points (3 hr seminar per wk).
Assessment: 3 essays 33.3% each.
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.
Textbooks:
Desai, A, A Passage to India, Penguin.
Harrex, Steven, Kamala Das, CRNLE.
Kipling, Rudyard, Kim.
Koch, C, Across the Sea Wall, Angus & Robertson.
Nayar, Ram, The Vendor of Sweets, Penguin.
Newbery, E, A Short Walk in the Hindu Kush, Picador.
Rao, V, The Serpent and the Rope, Orient/VIKAS.
Rushdie, Salman, Picador.
Said, Edward, Orientalism.
Assorted critical readings will be available in class.
Co-ordinator: Dr P Sharrad.

ENGL918 Special Topic
Autumn or Spring session; 8 credit points (3 hr seminar).
Assessment: 4 written assignments 25% 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 English and the Head of Department.
Textbooks: to be advised.
Co-ordinator: Dr P Sharrad.

ENGL920 Theories of Text, Discourse, Subjectivity and Culture
Autumn session: 3 hrs seminar per wk.
Assessment: 1 major essay 50%; 1 seminar paper 25%; 1 tutorial analysis exercise 25%.
This subject aims to provide an introduction to contemporary critical theories of text, discourse, subjectivity and culture. Students will be introduced to a range 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.
Textbook: Reader available from the English Department office.
Co-ordinator: Dr J Pugliese.

ENGL925 Writing the Gendered Body
(2 hr seminar per wk).
Assessment: 2 essays 33.3% each, and 1 seminar project 33.3%.
A study of a series of texts with special reference to their representation of the human body as socially and culturally constructed through race, social class and gender, with particular emphasis on the latter. At the same time the subject will examine the part literary texts themselves play in bodily construction.
Textbooks:
Atwood, Margaret, Bodily Harm, Virago, 1983.
Jolly, E, The Sugar Mother, Penguin.
Winterson, J, Written on the Body.
Wooll, V, Orlando.
Wooll, V, A Room of One's Own.
Note: The program for the subject will specify further "readings" for each week: (i) primary material poems, short fiction; (ii) critical/theoretical articles and chapters.
Co-ordinator: Dr A Lear and Ms E Hatzimanolis.

ENGL940 Multicultural Women's Writing
Spring Session; 3hrs seminar per week.
Assessment: One seminar paper 30%; one major essay 50%; oral presentation and participation 20%.
This subject introduces students to the study of cultural differences in writing through analysis of sex/gender discourses and theories of race and ethnicity, especially in literary formations in Australia. The subject will examine theories of subjectivity, representation, authorship, genre and the study of culture in light of global and local questions of identity politics, multiculturalism and aesthetics. A number of literary, critical/theoretical and other texts will be studied for their contributions to and/or contradiction of major literary and other discourses about cultural differences.
Textbooks:
Co-ordinator: Ms E Hatzimanolis.

ENGL941 Regulating Culture: Policy, Language and Control
Autumn session: 3 hours seminar per week.
Assessment: one essay 40%; one case study 60%.
This subject examines 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.
Textbooks:
Cameron, D, Verbal Hygiene, 1995.
Co-ordinator: Ms K Bowles.

SOC918 Advanced Sociology of Development
Autumn session: 8 credit points (2 hrs seminar).
Assessment: 2 seminar papers, one major essay.
This subject 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 agencies will be studied, with illustrative examples from current development debates.
Co-ordinator: Dr F Cook.

SOC921 Special Topic in Sociological Studies
Autumn/Spring session, 8 credit points (variable combination of individual supervision and seminars).
Assessment: one essay of approximately 4,000 words plus tutorial assignments.
Topics for this subject may be chosen from any area of Sociology which the Head of the Department considers to be of suitable substance and level to be offered as a SOC.
SOC942 Advanced Race and Ethnic Studies
Spring session; 8 credit points (3 hrs lecture/seminars).
Assessment: major essay or seminar paper.
This subject introduces students to theories of 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 ethnic minorities in Australia, and international and historical comparisons will be made.
Co-ordinator: Professor S Castles.

SOC946 Practical Communication and Communications Theory
Autumn session; 8 credit points (3 hrs lectures/seminars).
Assessment: major essay, seminar paper and participation.
This subject aims to lift professional communication skills and understanding by relating practical issues to theoretical models, concepts, and ideas. It does this by exploring various debates, and theoretical constructs which help relate individuals to society. Practical work includes: interviewing, participant observation, role-playing, analysing visual and phenomenological material. The theoretical traverse examines various accounts, models and theories of communication and aims to raise students' ability to encode and decode communication issues.
Co-ordinator: Dr T Jagtenberg.

SOC947 Cultural Theory
Spring session; 8 credit points (2 hrs seminar/talk).
Assessment: major essay/research paper, seminar project and participation.
This subject aims to introduce students to the work of leading cultural theorists. A number of perspectives are covered ranging from structuralism, neo-marxism and phenomenology through to feminism and post-modernism. Key concepts to be explored include cultural production, transculturalism and reception of cultural forms; hegemony; the notions of "High" and "Popular culture; discourse in cultural contexts; forms and modes of cultural production within the Media; the relationship between 'race' 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, and 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
Spring session; 8 credit points (3 hrs lecture/seminar/workshop).
Assessment: major essay, seminar project, and participation.
This subject examines fundamental aspects of human identity and explores the extent to which an individual is 'socially constructed'. The individual is located in the historical, cultural, and institutional context of 'modern'/post-modern' times through a consideration of contemporary myths, ideologies and practices which provide structure and meaning to daily life (eg, love, gender, truth). The course broadly addresses the questions of how personal identity is achieved in the context of change and uncertainty. These issues involve cross-cultural exploration of different models of self, identity and relationships. Students have the opportunity to explore a range of perspectives including interactionist, structuralist, post-structuralist and post-modern approaches to questions of identity. This also involves some consideration of 'non-western' traditions and questions about the ecological status of human identity.
Co-ordinator: Dr T Jagtenberg.

SOC959 Advanced Studies in Gender in Society
Autumn session; 8 credit points (3 hrs lecture/seminar).
Assessment: Participation, seminar papers and long essay: maximum of 7000 words.
This subject takes as its focus current debates about the constitution of humanities 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. The debates to be addressed include those about the sexual division of labour, the contradictory position of women in relation to the family and the state, and the nature and role of sexuality in the constitution of femininity and masculinity. Each year the subject concentrates on a particular aspect of gender relations in Australia. The focus will be on the interaction of the state and other social institutions of gender division. Examples will be drawn from current literature.

Please Note: Students with little or no background in the study of gender relations must consult the lecturer for preliminary reading.
Co-ordinator: Ms L. Lyons-Lee.

SOC990 or ENGL902 Minor Thesis
24 credit points.
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 with in 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 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.

STS915 Master Narratives, Myth and Symbolic Politics in Science
Spring session; 8 credit points (3 hrs per wk).
Assessment: 1 essay 4,000 words; 1 seminar 1,500 words, 2 oral seminar commentaries.
The past generation has witnessed the demise, in some quarters, of virtually the entire corpus of traditional frameworks of culture and society. The nature of science, elaborated over the past 350 years. What previously counted as master narratives of, and signposts to, the essence of scientific progress and rationality have come to be seen as problematic, historically contingent discursive weapons and strategies for the defense (or sectional co-optation) of the institution of science, by practitioners and their cultural allies. Accordingly, the received cultural meanings of science have become objects of study in the newer critical history and sociology of science. This subject surveys the previously received wisdom - including some of its internal conflicts - and examines the grounds of its deconstruction and collapse, as seen from within recent critical theoretical developments in the history, philosophy and sociology of science. Topics will include:

(1) Traditional master narratives of the history of science - idealist/ Marxist/functionalist - and their deconstruction from Bachelard, through Kuhn to post-Kuhnian history and sociology of science; the common 'whiggish' discursive 'deep structure' of formally opposed 'internalist' and 'externalist' narratives of science.

(2) The lingering cult and symbolism of method: the discursive dynamics and rhetorical functions of method discourse (Feyerabend/Schuster); the abortive careers of 'born-again' method; the common 'whiggish' discursive 'deep structure' of formally opposed 'internalist' and 'externalist' narratives of science.

(3) Science as inscription: scientific discoveries, facts and tests as textual and rhetorical accomplishments - the textuality and historicity of scientific hardware.

(4) The possibility and desirability of new master narratives for old in the 17th century rise of modern science and the 18th century emergence of experimental fields.

(5) Myth, symbol and master narrative in current science policy discourse and the wider public politics of science.

Textbooks:
Various books and articles will be used.
Co-ordinator: Associate Professor J Schuster.
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 (English Studies)
6. Honours Master of Arts by Research (Post-Colonial Literatures)
7. Honours Master of Arts by Coursework (Post-Colonial Literatures)
8. Master of Arts (Post-Colonial Literatures)
9. Graduate Certificate in Textual Studies, Media and Linguistics (Not enrolling new students in 1997)
10. Master of Arts (Women's Studies)

POSTGRADUATE PROGRAMS

Post-Colonial Literatures
English Studies
Textual Studies, Media and Linguistics (Not enrolling new students in 1997)
Cultural Studies (See Cultural Studies section of this Calendar)
Women's Studies (See Women's 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. Areas currently available to candidates for the MA in Post-Colonial Literatures are italicised.

Alternative and community theatre/drama
Aboriginal writing
Australian literature
Australian screen studies
Australasian theatre
Canadian literature
Canoan formation and literary history
Caribbean literature
Cinema studies
Communication studies
Contemporary screen theory
Cross cultural literature
Cultural theory and literature
Dramaturgy
Early seventeenth-century literature and culture
Early women writers
Eighteenth-century literature
Elizabethan literature
Fantasy and utopian writing
Gender and genre
The Gothic
Hypertexts and computer-produced multimedia
Indian writing in English
Middle English language and literature
Modern European theatre
Modern poetry and fiction
New literatures in English (Commonwealth/Post-Colonial literatures)
New Zealand literature
Nineteenth-century literature
Nineteenth and twentieth century popular theatre
Old English language and literature
Old Icelandic language and literature
Pacific literature
Popular media and popular culture
Popular literature
Post-colonial theory
Post-colonial Women's Writing
Radical, alternative and independent cinema
Screen theory, practice and criticism
Sexuality and representation
Shakespeare
Systemic functional linguistics
Text-to-performance studies in theatre
Textual criticism and computer-generated editions
Theories of the modern stage
Victorian cultural studies
## POSTGRADUATE PROGRAM IN ENGLISH STUDIES

leading to the degree of Master of Arts

Students must choose six subjects (48 credit points): ONE subject from each column (24 credit points) and THREE subjects from any column or columns (24 credit points)

Please note: ENGL918 Special Topic may only be taken once.

### A
- ENGL903 Post-colonial Literary issues*
- ENGL918 Special Topic
- ENGL920 Theories of Text, Discourse, Subjectivity and Culture
- ENGL922 Research Methods*
- ENGL925 Writing the Gendered Body*
- ENGL928 Introduction to Language in a Social Context
- ENGL940 Multicultural Women’s Writing
- ENGL941 Regulating Culture: Policy, Language and Control

### B
- ENGL915 Drama in Other Cultures
- ENGL916 United States Literature of the Nineteenth and Early Twentieth Centuries*
- ENGL918 Special Topic
- ENGL921 Turning Points: Selected Post-colonial Fiction
- ENGL923 Indigenous Literatures of Canada, New Zealand and Australia
- ENGL929 Reason, Revolution and Reform*
- ENGL930 History and Romance in Early Modern Britain
- ENGL933 Early Women Writers
- ENGL934 Africa and the New World*
- ENGL935 Pacific Literature*
- ENGL937 New Zealand Literature
- HIST933 Culture and Politics in Indonesia, 1865-1988

### C
- ENGL906 20th Century Post-colonial Writers*
- ENGL908 Literature from Colonised Societies*
- ENGL910 20th Century Women Writers*
- ENGL912 Representing India
- ENGL915 Drama in Other Cultures
- ENGL918 Special Topic
- ENGL921 Turning Points: Selected post-colonial Fiction
- ENGL923 Indigenous Literatures of Canada, New Zealand and Australia
- ENGL929 Reason, Revolution and Reform*
- ENGL930 History and Romance in Early Modern Britain
- ENGL933 Early Women Writers
- ENGL934 Africa and the New World*
- ENGL935 Pacific Literature*
- ENGL937 New Zealand Literature
- HIST933 Culture and Politics in Indonesia, 1865-1988

### SCHEDULE OF PROGRAMS

#### 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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<tbody>
<tr>
<td>(i) Master of Arts by Coursework</td>
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<tr>
<td>Prescribed subject:</td>
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<td>ENGL903</td>
<td>Post-Colonial Literary issues*</td>
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<tr>
<td>Optional subjects: Students must choose 5 subjects (40 credit points) from the list of Optional Subjects below.</td>
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<tr>
<td>(ii) Honours Master of Arts by Coursework</td>
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<tr>
<td>Minor Thesis</td>
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<tr>
<td>ENGL902</td>
<td>Dissertation (20,000 words)</td>
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<td>Prescribed subjects:</td>
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<td>ENGL903</td>
<td>Post-Colonial Literary issues*</td>
<td>8</td>
</tr>
<tr>
<td>Optional subjects: Students must choose 2 subjects (16 credit points) from the list of Optional Subjects below.</td>
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<tr>
<td>(iii) Honours Master of Arts by Research</td>
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<tr>
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<td>ENGL904</td>
<td>Dissertation (30,000 words)</td>
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<td>Optional subject: Students must choose 1 subject (8 credit points) from the list of Optional Subjects below.</td>
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<tr>
<td>Optional subjects:</td>
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<td>ENGL906</td>
<td>Twentieth Century Post-Colonial Writers*</td>
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<tr>
<td>ENGL908</td>
<td>Literature from Colonised Societies*</td>
<td>8</td>
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<tr>
<td>ENGL909</td>
<td>Deconstructing Australia</td>
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<tr>
<td>ENGL910</td>
<td>Twentieth Century Women Writers*</td>
<td>8</td>
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<tr>
<td>ENGL912</td>
<td>Representing India</td>
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<tr>
<td>ENGL915</td>
<td>Drama in other Cultures</td>
<td>8</td>
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<tr>
<td>ENGL916</td>
<td>United States Literature of the Nineteenth and Early Twentieth Centuries*</td>
<td>8</td>
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<tr>
<td>ENGL918</td>
<td>Special Topic</td>
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<td>ENGL921</td>
<td>Turning Points: Selected Post-Colonial Fiction</td>
<td>8</td>
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<tr>
<td>ENGL922</td>
<td>Research Methods*</td>
<td>8</td>
</tr>
<tr>
<td>ENGL923</td>
<td>Indigenous Literature in Canada, Australia and New Zealand</td>
<td>8</td>
</tr>
<tr>
<td>ENGL931</td>
<td>Contemporary Australian Drama</td>
<td>8</td>
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<tr>
<td>ENGL934</td>
<td>Africa and the New World*</td>
<td>8</td>
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<tr>
<td>ENGL935</td>
<td>Pacific Literature*</td>
<td>8</td>
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<tr>
<td>ENGL937</td>
<td>New Zealand Literature</td>
<td>8</td>
</tr>
<tr>
<td>HIST933</td>
<td>Culture and Politics in Indonesia, 1865-1988</td>
<td>12</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

* Not on offer in 1997.
** Not on offer in 1997. Students needing this subject to complete the Graduate Certificate should contact the Head of Department
POSTGRADUATE PROGRAM IN ENGLISH STUDIES

Leading to the Graduate Certificate in Textual Studies, Media and Linguistics.

Please note: This certificate will not be enrolling new students in 1997. Continuing students should consult the Head of Department if unsure about subject availability.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>ENGL920</td>
<td>Theories of Text, Discourse, Subjectivity and Culture</td>
<td>8</td>
</tr>
<tr>
<td>ENGL927</td>
<td>Media Studies: analysing Mass Media</td>
<td>8</td>
</tr>
<tr>
<td>ENGL928</td>
<td>Introduction to language in a Social Context.</td>
<td>8</td>
</tr>
</tbody>
</table>

For further details see Course Description below.

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, 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 ENGL999.

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 programme.

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. Students who do not have a background in literary theory should include ENGL920 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 (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, 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 ENGL999.

3. HONOURS MASTER OF ARTS (CULTURAL STUDIES)

4. MASTER OF ARTS (CULTURAL STUDIES)

For details of these courses, please refer to the "CULTURAL STUDIES" entry in the Faculty of Arts section.

5. MASTER OF ARTS (ENGLISH STUDIES)

The discipline of English has undergone considerable change over the last fifteen years. The traditional 'canon' of predominantly English/British literature is being questioned, new readings are being produced, and Universities are admitting an ever wider range of texts to the 'English' curriculum. Australian Literature and Postcolonial studies are now major fields of study. Films and television programs are now recognized texts for study. At the same time, theoretical studies in textual analysis and linguistics have developed rapidly, to the point that it is crucial to have an academic training in English which includes theoretical studies.

Entry to the degree:
Students possessing a BA or equivalent qualification will complete a 48 credit point course. They will take one prescribed subject ENGL903, Post-colonial Literary Issues (8cp), and five optional subjects from the Schedule (40 cp), excluding the minor thesis. The degree will run over two sessions (excluding Summer Session) full-time or four sessions for part-time students.

Honours (Coursework and Research) degree entry
Coursework degree:
BA (or equivalent) Honours graduates with a grade of at least Class II, Division ii in an appropriate area may undertake a 48 credit point course. They will take one prescribed subject ENGL903, Post-colonial Literary Issues (8cp), and two optional subjects from the Schedule (16 cp), and will complete a 20,000-word dissertation (ENGL902), on a topic agreed on with a supervisor (24 cp). The duration of the course will be two sessions (full-time) not including Summer Session, or four sessions for part-time students.

Research degree:
BA (or equivalent) Honours graduates with a grade of at least Class II, Division ii in an appropriate area may undertake a 48 credit point course made up of the prescribed subject ENGL903, Post-colonial Literary Issues (8cp), one optional subject from the Schedule (8cp) and a 30,000-word (32cp) dissertation (ENGL904). The duration of the course will be two sessions (full-time) not including Summer Session, or four sessions for part-time students.

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 - VS. 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 commonly to the whole field and particular to each of its regions.

9. GRADUATE CERTIFICATE IN TEXTUAL STUDIES, MEDIA AND LINGUISTICS

"(PLEASE NOTE: This course will not be enrolling new students in 1997).

Theoretical studies in textual analysis, media and linguistics have developed rapidly in the discipline of English, to the point where it is crucial for English graduates to have an academic training which includes theoretical studies. The Graduate Certificate represents a response to a demand for a systematic training in recent developments in the discipline of English studies: in textual analysis, media and linguistics. It provides an opportunity for graduates to upgrade their skills and to increase their present level of knowledge in the areas.

Candidates for the Certificate will be required to take a total of 24 credit points in the following three subjects:

ENGL920 Theories of Text, Discourse, Subjectivity and Culture
ENGL927 Media Studies: analysing Mass Media
ENGL928 Introduction to Language in a Social Context.

The course will run over one year full-time, or two years for part-time students.

10. MASTER OF ARTS (WOMEN'S STUDIES)

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 session; 24 credit points
Assessment: students undertaking the degree must submit a dissertation of 20,000 words on a research topic to be determined in consultation with the supervisor.

ENGL903 Post-Colonial Literary Issues
8 credit points (3 hrs per wk seminar)
Assessment: 3 written assignments 33.3% each.
A survey of relationships between culture, politics and literary constructions; the connection between British and other literatures in English; the question of 'universal' standards; nationalism and aesthetics; the formation of a field of study. Discussion will be based on selected fiction and critical readings.

Textbooks:

Ashcroft, Griffith and Tiffin (eds), The Empire Writes Back, Methuen.
Buchan, J, Prester John, Penguin.
Harris, W, The Palace of the Pescos, Faber.
Williams, P, and Chrisman, L (eds), Colonial Discourse and Postcolonial Theory, Harvester Wheatshead.

Co-ordinator: Dr P Sharred.

ENGL904 Dissertation
Double session; 32 credit points.
Assessment: students undertaking the degree must submit a dissertation of 20,000 words on a research topic to be determined in consultation with the supervisor.

ENGL906 Twentieth Century Post-Colonial Writers
8 credit points (3 hrs per wk seminar).
Assessment: 4 written assignments 25% each.
A study of the poetry of a group of modern writers.

Textbooks:
Atwood, M, Selected Poems (The Journals of Susanna Moodie).
Ezekiel, N, Selected Poems, OUP.
Curnow, A, Collected Poems, OUP/Reed.
Walcott, D, Another Life, Three Continents Press, 1982.

Co-ordinator: Professor J Wieland.

ENGL908 Literature from Colonised Societies
8 credit points (3 hrs per wk seminar).
Assessment: 3 written assignments 33.3% each.
The subject provides a survey of writing emerging from experiences of colonialism and post-colonial modes of colonisation. It aims to promote an understanding of socio-cultural dynamics and their representation in literary themes, forms and styles common to the field. There will also be a discussion of recurrent problems in the criticism of this literature.

Textbooks:
Fuentes, C, Distant Relations, Arena.
Grace, P, Potki, Penguin, NZ.
Harrex and O'Sullivan, (eds) Kamala Das: CRINL.
Joyquin, N, Tropical Gothic.
Moore & Beier (eds), Modern Poetry from Africa, Penguin.
Ogali, O, Veremica my Daughter, Three Continents.
Rushdie, S, Shame, Picador.
Soyinka, W, Aké, Arrow.

Co-ordinator: Dr P Sharred.

*Not on offer in 1997

ENGL909 Deconstructing Australia
Spring session; (3hr seminar per wk).
Assessment: one seminar paper 20%, two essays 40% each.

ENGL910 Twentieth Century Women Writers
8 credit points (3 hrs per wk seminar).
Assessment: 4 written assignments 25% each.
This subject examines poetry, short stories and novels by a number of twentieth century women writers from a variety of cultures: Australia, USA, Southern Africa, New Zealand, Canada, and gives particular emphasis to the theme of the woman as artist.

Textbooks:
Jolley, E, Miss Peabody's Inheritance, St Lucia, UQP, 1984.

ENGL912 Representing India
Autumn session; (8 credit points (3 hr seminar per wk).
Assessment: 3 essays 33.3% each.
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.

Textbooks:
Desai, A, Bye Bye Blackbird, Orient.
Ezekiel, N, Selected Poems, OUP.
Forster, E M, A Passage to India, Penguin.
ENGL916 United States Literature of the Nineteenth and Early Twentieth Centuries
8 credit points (3 hrs per wk; lecture and seminar).
Assessment: 8 essays 25% each.
This subject studies the development of a national literature in the United States during the 19th and the first two decades of the 20th century. What makes American literature distinctively American? How did America shake off the cultural domination of Britain? What conditions exist in a post-colonial society, and what conditions are needed to stimulate the growth of an independent literature?
Note: Texts by Emily Dickinson and Walt Whitman will be distributed in handout form.
Co-ordinator: Dr R Harland.

ENGL918 Special Topic
Spring or Autumn session; 8 credit points (3 hrs per wk).
Entry to this subject depends on the availability of staff.
Assessment: 4 written assignments 25% each.
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 Department.
Co-ordinator: Dr P Sharrad.

ENGL920 Theories of Text, Discourse, Subjectivity and Culture
Autumn session (3 hrs per wk).
Assessment: 1 major essay 50%; 1 seminar paper 25%; 1 textual analysis exercise 25%.
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.

ENGL921 Turning Points: Selected Post-Colonial Fiction
Autumn session; 8 credit points (3 hrs per wk).
Assessment: 3 essays 33.3% each.
A survey of major fiction texts of post-colonial writing in English, especially 'first' novels from emerging nations and fiction that has, by virtue of critical attention or popular regard, become seminal in creating the literary corpus of post-colonial studies. Texts will be placed in cultural and historical context. Attention will be paid to the interaction between colonial experience
and literary form and technique, and critical responses surveyed for various constructions of a post-colonial 'tradition'. Students will also undertake a special area study with texts to be arranged.
Co-ordinator: Dr P Sharrad.

ENGL922 Research Methods*
8 credit points (3 hrs seminar per wk).
Assessment: 1 essay 30%, class exercises 70%.
This subject is concerned with the practicalities of research at postgraduate level: development of a research topic, appropriate research models and techniques, planning and writing the dissertation, advanced bibliographic and textual study skills, computer skills, and close readings. A theoretical component will examine the relationship between critical theory and research method in English studies.
Postgraduate students are advised to take this subject in the year in which they intend to submit the dissertation.
Co-ordinator: Dr KM Newey.

ENGL923 Indigenous Literatures in Canada, New Zealand and Australia
Spring session; 8 credit points (3 hrs seminar per wk).
Assessment: 4 assignments 25% each.
In recent years attention has turned towards the question of teaching indigenous writing in the academy raises. Who can teach the literature of Aborigines, Maoris, Inuits and Native Indians? Who has the right to speak for them? Is there a common voice for all indigenous cultures? How do we approach the literature as outsiders without appropriating the right of indigenous peoples to speak for themselves? These critical questions will be addressed through the literature produced by indigenous writers themselves. This subject will study indigenous writing in the context of world movements, but it will focus on insights which can be achieved through a comparative process - specifically, on the experiences of Australian, New Zealand and Canadian indigenous critics and artists. The subject will also attempt to place such literature in the context of wider cultural and critical investigations - such as weighing up the impact of Afro-American literary theory on "Black" studies generally, and by studying the impact and damage homogenizing theoretical frameworks such as post-colonialism produce on indigenous literature and politics.

*Not on offer in 1997
ENGL925 Writing the Gendered Body*
(3 hr seminar per wk).
Assessment: 2 essays 33.3% each, 1 seminar project 33.3%.
A study of a series of texts with special reference to their representation of the human body as socially and culturally constructed through race, social class and gender, with particular emphasis on the latter. At the same time the subject will examine the part literary texts themselves play in bodily construction.
Textbooks:
Atwood, M, Bodily Harm, Virago, 1983.
Jolley, E, The Sugar Mather, Penguin.
Jonson, B, Epicoene or The Silent Woman, ed R V Holdsworth, Ernest Benn, 1979.
Kafka, F, Metamorphosis and other Stories.
Shakespeare, W, Twelfth Night.
Winterson, J, Sexing the Cherry, Virago, 1989.
Woolf, V, Orlando.
Woolf, V, A Room of One's Own.
Winterson, J, Written on the Body.
Note: The program for the subject will investigate this central concept of 'otherness'. It will examine the ways in which such texts will be read and how these choices are influenced by the ideological implications of its structure.
ENGL926 Technologies of the Alien: Representations of the 'other' in Science Fiction Film
Autumn session; (one 2hr seminar per week.)
Assessment: 1 essay 60%, 1 seminar paper 40%.
This subject will focus on Science Fiction film as an exploration of definitions of 'otherness'. It will examine the ways in which Science Fiction, as a genre, has been used to explore social issues and conflicts such as the relationship between technological development and social responsibility, the bodily inscription of gender, the Cold War, and the construction of the postmodern subject. It will also analyse the effectiveness of the Science Fiction film in the 20th century in dramatising these explorations.
Films: Please note: The text list for each year will include some of the following but will vary according to trends in the genre.
Attack of the 50ft Woman.
Forbidden Planet (1956).
Star Wars (1977).
include reference to the current production and performance practices and conditions of the theatrical profession in Australia. To this end, texts for discussion will include (when available) first and second draft manuscripts in pre-production, presentation, rehearsal texts and published plays, and class work will emphasise the discussion of the performance text as well as the literary text.

Textbooks:
Chu, Jimmy and Kuckles, Bran Nae Dae.
Enright, N, Mongrels.
Hewett, D, Mrs Porter and the Angel.
Nowra, L, Summer of the Aliens.
Rayson, H, Hotel Sorrento.
Sewell, S, Hate.
Thomson, K, Diving For Pearls.
White, P, Neherwood.
Williamson, D, Dead White Males.
Other plays to be advised.
Co-ordinator: Mr J Senczuk.

ENGL932 Introduction to Publishing Studies
Autumn session; 8 credit points (6hr seminar/ workshop per wk).
Assessment: 1 tutorial paper 20%, 1 seminar paper 40%, 1 publication exercise 40%.
A study of the organisations, practices and products of contemporary publishing, with the emphasis on the acquisition by students of the knowledge and skills required for effective operation in the publishing industry, including the processes involved in achieving the publication of their own works. It is planned to have a number of seminar/workshops conducted by visiting professionals in the various field of specialisation.
Areas to be treated include:
- Why publish?
- A brief history of the publishing process and its industry.
- The organisation and commercial practices of the contemporary publishing industry.
- The legal aspects of publishing.
- The editorial function.
- Production - print design, layout, graphics, book production.
- Journal publication - newspapers, magazines, pamphlets.
- Desktop publishing.

Textbooks:
Clarke, G, Inside Book Publishing.
Williamson, H, Methods of Book Design.
Co-ordinator: Mr M Scott.

ENGL933 Early Women Writers
Spring session; (3 hr lecture/seminar per wk).
Assessment: 1 long essay 60%, 1 seminar paper 40%.
This subject looks at the work of selected women writers from the mid-fifteenth century to the early eighteenth century. The texts represent a variety of 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.

Textbooks:
Behr, A, Oorongoro.
Grahame, Hinds, Hobby, Wilcox (eds), Her Own Life: Autobiographical Writings by Seventeenth Century English Women.
Greer, Hastings, Medoff and Samsone, (eds), Kissinger the Rod: An Anthology of Seventeenth Century Women's Verse.
Kempe, M, The Book of Margery Kempe.
Selected writings in hardcover form.
Co-ordinator: Dr A Lear.

ENGL934 Africa and the New World
8 credit points; (3 hrs seminar per wk).
Assessment: 3 essays 33.3% each.
A survey of major texts of African, Caribbean and Afro-American writing in English. Texts will be placed in cultural and historical context. Attention will be paid to the interaction between slave and colonial experience and literary form and technique, to regional differences in constructing identity, and to critical strategies for the construction of a “Black aesthetic” and literary tradition.
Common Texts:
Jacobs, H, Incidents in the Life of a Slave Girl.
Morrison, T, Beloved.
Arman, A K, The Beautiful Ones are Not Yet Born.
Soysinka, W, Aké.
Opal, O, Victoria My Daughter.
Moore, G, and Belier, U (eds), The Penguin Book of Modern African Poetry. The Harder They Come. (Film)
Morinou, V, Her True True Name.
Philips, C, Cambridge.
Plus selected material in hardcover form.
Texts for special study:
(Students choose one area)
EAST AFRICA
Chinodya, S, Harvest of Thorns.
Head, B, When the Rainclouds Gather.
Ngugi, Petals of Blood, USA.
Baldwin, J, Giovanni’s Room.
Brown, W W, Claires.
Larson, N, Passing.
CARIBBEAN
Brathwaite, E K, The Arrivants.
Césaire, A, Cahier d’un retour au pays natal.
Co-ordinator: Dr P Sharrad.

ENGL935 Pacific Literature
8 credit points (1 hr lecture, 2 hrs seminar per wk).
Assessment: 2 essays 70%, 1 historical/cultural test 15%, 1 take-home commentary on a poem 15%.
An introduction to leading works of Pacific literature from a representative range of genres and geographical sources. The subject will focus on themes and literary techniques common to the region as well as specific qualities related to the societies from which these works emerge.
Textbooks:
Ballantyne, R M, The Coral Island.
Campbell, A, The Frigate Bird.
Reed, Heinemann.

* Not on offer in 1997

Dancy, H, Ze Ratukura.
Pule, J, The Stark that Ate the Sun, Penguin.
Wendt, A, Nuamua, Auckland UP.
Wendt, A, Ola, Penguin.

Reference:
Sharrad, P (ed), Readings in Pacific Literature, NLRC.

Other poems, stories and plays will be supplied, and films will be shown as the subject progresses.
Co-ordinator: Dr P Sharrad.

ENGL937 New Zealand Literature
Autumn session: 8 credit points (one 3 hr seminar per wk).
Assessment: 3 essays, 33.3% each.
A survey of major texts of Maori and Pakeha writing in English. Texts will be placed in cultural and historical context. The texts have been chosen to allow consideration of issues such as identity, (national, racial, sexual), relationship to the land, and the role of conventions and the development of stereotypes. The texts will be supplemented by films where possible and the course is designed to supplement those already offered in Australian and other post-colonial writing.

Textbooks:
Baxter, J K, Selected Poems. OUP.
Davis & Halley (eds), Contemporary New Zealand Short Stories. Penguin.
Frame, J, An Angel at my Table. Random.
Gee, M, Plumb, Angus & Robertson.
Larce, V, Cousins, Women’s Press.
Grene, P, Patiki, Penguin.
Hulme, K, The Bone People, Picador.
Hyde, R, The Godwits Fly, Auckland UP.
Humarua, W, Dear Miss Mansfield, Viking.
Mason, B, The End of the Golden Weather, Victoria U.P. 937 N.
Ruby and Ruia (Film). Sargeson, F, Sargeson, Penguin.
Weddie, I and McQueen, H (eds), The Penguin Book of New Zealand Verse, Penguin.

Co-ordinators: Dr G Barwell.

ENGL939 Studies in Twentieth Century Australian Literary Culture: Gender, Ethnicity, Post-Colonialism
Spring session; 8 credit points (One three-hour seminar per wk).
Assessment: one seminar paper, 20%, (2000-2500 words approx); two essays, 30% each, (3000 words approx); participation, 20%.
This subject focuses on the manner in which concepts of national identity and national history have been questioned by twentieth century Australian writers. This subject examines the way in which issues relating to gender, ethnicity and post-colonialism have produced both an interrogation and a re-writing of Australian culture.

Textbooks:
Cappiello, R, Oh Lucky Country, UQP.
ENGL940 Multicultural Women’s Writing
Spring Session; 3hrs seminar per week
Assessment: One seminar paper 30%; one major essay 50%; oral presentation and participation 20%
This subject introduces students to the study of cultural differences in writing through the analysis of sex/gender discourses and theories of race and ethnicity, especially in literary formations in Australia. The subject will examine theories of subjectivity, representation, authorship, genre and the study of culture in light of global and local questions of identity politics, multiculturalism and aesthetics. A number of literary, critical/theoretical and other texts will be studied for their contributions to and/or contradiction of major literary and other discourses about cultural differences.
Textbooks:
Ciccotosto, Emma and Michal Bosworth, Emma: A Translated Life, Fremantle Arts Centre P., 1989
Ding Xiaoqi, Maidenhome, Hyland Press, 1993
Epanomitis, F. The Mule’s Foal, Allen & Unwin, 1993
Kalamaras, V. The Same Light, Fremantle Arts Centre Press, 1989
Kefala, A. The Island, Hale & Iremonger, 1994
Walwicz, A. Red Roos, UQP, 1993
Co-ordinator: Ms E Hatzimanolis.

ENGL942 Performance Studies: Theory, Practice and Criticism, Autumn Session; (One 3-hr seminar per wk).
Assessment: One Seminar Paper (30%) One Sessional Essay (40%) Two Performance Analysis Exercises (15% each)
An examination of recent and contemporary developments in performance and the study of the performative arts in the various media and forms, with special attention to applications of theory to performance practice, analysis, and criticism. While the seminal contributions of the work of Stanislavski, Craig, Meyerhold, Artaud, Brecht, et al, are acknowledged and honoured, the subject will focus on post-1950’s developments, citing practitioner/theorists such as Grotowski, Brook, Barba, Boal, Minoushkine and Suzuki, along with academic commentators such as Pavis, Elam, Schechner, Bennett and Phelan. The studies involved will be associated with the experience by students of specific examples of performance on stage and screen and will entail not only the elements that contribute to dramatic performance as conventionally understood - acting, direction, design, technical production, performance spaces, audience/performance relationships, etc. - but also other modes of performance: for examples, rock music/music video, cabaret, dance, stand-up comedy, performance poetry, performance art, and other instances of the “live arts”.
Recommended Reading:
Aston, E and Savona, G Theatre as a Sign System
Bennett, S Theatre Audiences.
Elam, K The Semiotics of Drama and Theatre.
Pavis, P Languages of the Stage.
Schechner, R Performance Theory. (Other readings to be provided)
Textbooks: To be advised
Co-ordinator: Mr M Scott.

ENGL941 Regulating Culture: Policy, Language and Control
Autumn session; 3 hours seminar per week
Assessment: one essay 40%; one case study 60%
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.
Textbooks:
Cameron, D, Verbal Hygiene, 1995.
Co-ordinator: Ms K Bowles.
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Arts by Research
3. Master of Arts
4. Graduate Certificate in History Education

POSTGRADUATE PROGRAMS

History
History and Education

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 South East 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.

<table>
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<tr>
<th>Number</th>
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<tbody>
<tr>
<td>HIST904</td>
<td>Reading Course on Themes in Australian History</td>
<td>12</td>
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<tr>
<td>HIST933</td>
<td>Culture, History and Politics in Southeast Asia: Indonesia and Other Case studies</td>
<td>12</td>
</tr>
<tr>
<td>HIST934</td>
<td>The Re-making of Australian History</td>
<td>12</td>
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<tr>
<td>HIST942</td>
<td>Themes in European History</td>
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<tr>
<td>HIST943</td>
<td>Themes in United States History</td>
<td>12</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>
<td>12</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

POSTGRADUATE PROGRAM IN HISTORY AND EDUCATION
leading to the Graduate Certificate in History Education.

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<tbody>
<tr>
<td>EDGA822</td>
<td>New Technologies and Approaches to Learning</td>
<td>12</td>
</tr>
<tr>
<td>HIST934</td>
<td>The Re-making of Australian History</td>
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</tbody>
</table>

For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECT

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<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>HIST973</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
<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 course work 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 Department Head may vary the entry requirements, if satisfied that an applicant's qualifications have prepared him or her for advanced historical study.

4. GRADUATE CERTIFICATE IN HISTORY EDUCATION

Candidates should have completed at least a minor sequence in History, or its equivalent, and be practising teachers.

The course consists of two subjects as set out in the relevant schedule shown above. Successful students will receive a Graduate Certificate of History Education. This will stand as half credit towards either a Master of Arts or a Master of Education Degree the former for students who wish to pursue studies in content further, the latter for those who wish to extend their studies in method.

Contact hours for the first subject are 3 hours per week, timetabled in the late afternoon. At some stage in the course the course will be necessary for the students to attend for six hours per week.

The Department of School Education has recognised the course for official in-service training purposes.

SUBJECT DESCRIPTIONS
Where textbooks and/or co-ordinators are not specified, details will be made available at a later date.

EDGA822 New Technologies and Approaches to Learning
Refer to entry under Faculty of Education.

HIST904 Reading Course on Themes in Australian History
Autumn or Spring session; 12 credit points (one hr supervision per wk).
Assessment: 2 x 4,000 word essays each 40%, 1 x 1,000 word paper 20%.
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 Department.
Co-ordinator: Professor J Hagan.

HIST942 Themes in European History
Autumn or Spring session; 12 credit points (Minimum one hour per week by arrangement with Subject Co-ordinator).
Assessment: 1 x 3,500 word essay 40%, 1 x 3,500 word research exercise 40% 1 x 2,000 word literature review 20%.
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 Department. Themes to be examined include the role of war, class and nationalism in modern European history.
Co-ordinator: Dr S Brown.

HIST943 Themes in United States History
Autumn or Spring session; 12 credit points (Minimum one hour per week by arrangement with Subject Co-ordinator).
Assessment: 1 x 3,500 word essay 40%, 1 x 3,500 word research exercise 40% 1 x 2,000 word literature review 20%.
This subject 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 Department. Topics to be considered include race, urban blight, cultural change, war and foreign policy, and the imperial presidency as factors in the development of the modern United States.
Co-ordinator: Dr P Sales.

HIST944 Southeast Asia's Economic Transformation
Spring session; 12 credit points (Minimum one hour per week by arrangement with member of staff).
Assessment: 1 x 3,500 word essay 40%, 1 x 3,500 word research exercise 40% 1 x 2,000 word literature review 20%.
This subject 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.
Co-ordinator: Dr T Li.

HIST951 Philosophy of History
Spring session; 12 credit points (2 hr seminar per wk).
Assessment: 9,000 words in essays/tutorials.
This subject examines certain fundamental problems associated with historical enquiry, the core of which is the 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? Although participation in HIST927 does not require prior training in philosophy, it is expected that students will possess an interest in the grounds on which historians claim to know the causes of past events and developments.
Preliminary Reading:
Co-ordinator: Dr I McLaine.

HIST973 Major Thesis
48 credit points.
In addition to completing a major thesis, postgraduate students in the Department of History and Politics are required to attend a postgraduate seminar series to which visitors, postgraduates, and staff members contribute. Until further notice, the seminars will be of about two hrs, beginning at five o'clock on Wednesdays. During the period of their enrolment, full-time postgraduate students should attend not less than 70 percent of the seminars offered, and part-time postgraduate students about 35 percent. A committee consisting of two elected representatives of the students, the Head of the Department, and another staff member will advise on the program for each series. All candidates for Master of Arts Honours shall give at least two, and candidates for doctoral degrees shall give three, work-in-progress seminars over the course of their candidature.

HIST975 MA (Hons) Minor Thesis
Annual session; 24 credit points
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 the Departmental Postgraduate Seminars and to give at least one work-in-progress seminar over the course of their candidature.
COURSE OFFERED

The following postgraduate course is available:

1. Master of Arts

POSTGRADUATE PROGRAM

International Relations

CURRENT RESEARCH AREAS

Research can be supervised in 1997 in diverse aspects of International Relations, focussing primarily (but not exclusively) on the Asia-Pacific region.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN INTERNATIONAL RELATIONS

leading to the Master of Arts.

<table>
<thead>
<tr>
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<td>INTR900</td>
<td>International Law and Diplomacy</td>
<td>8</td>
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<tr>
<td>INTR910</td>
<td>Politics of International Relations</td>
<td>8</td>
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<tr>
<td>INTR920</td>
<td>Advanced International Economic Relations</td>
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<tr>
<td>INTR930</td>
<td>Organisational Behaviour</td>
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Elective Subjects:

1. INTR901 Practical Diplomacy 8
2. INTR911 Politics in the South Pacific 8
3. INTR912 Pacific Rim and Pacific Basin 8
4. INTR921 Advanced International Economics 8
5. INTR922 Advanced Topics in Economics 8
6. INTR931 Strategic Planning and Policy 8
7. INTR932 Selected Topics in Management 8
8. INTR940 Case Study in International Politics A 8
9. INTR941 Case Study in International Politics B 8
10. INTR950 Australia: Making of a Nation 8
11. INTR957 Post-war Economic and Social Development of East Asia 8
12. INTR958 Selected Topics on Post-war Developments in Southeast Asia 8
13. INTR960 Research Project in International Relations 16
14. INTR961 Research Project in International Relations 16

1 Not all of these subjects are available each year – refer to Department of History and Politics 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, focussing on international politics, economics, management, and law and diplomatic practice, in particular, but allowing both for specialisation 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.

Course Requirements

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 Department, 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

Other subjects available:

INTR901 Practical Diplomacy
INTR911 Politics in the South Pacific
INTR912 Pacific Rim and Pacific Basin
INTR921 Advanced International Economics
INTR922 Advanced Topics in Economics
INTR931 Strategic Planning and Policy
INTR932 Selected Topics in Management
INTR940 Case Study in International Politics A
INTR941 Case Study in International Politics B
INTR950 Australia: Making of a Nation
INTR957 Post-war Economic and Social Development of Southeast Asia
INTR958 Selected Topics on Post-war Developments in Southeast Asia
INTR960 Research Project in International Relations

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.

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INTR950 Australia: Making of a Nation
INTR957 Post-war Economic and Social Development of Southeast Asia
INTR958 Selected Topics on Post-war Developments in Southeast Asia
INTR960 Research Project in International Relations
INTR961 Research Project in International Relations
Students may, with the permission of the Co-ordinator, apply to enrol in other subjects contained in the Postgraduate Calendar.

SUBJECT DESCRIPTIONS
For the Co-ordinators for INTR900, 901, 921, 922, 930, 931, 932, 950 and 957 see the MA(R) Course Co-ordinator.

INTR900 International Law and Diplomacy
Autumn session; 8 credit points (3 hrs per wk 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 terminating of missions; and diplomatic and consular immunity. Close attention is paid to the impact of modern technology and mass communications on international law and diplomacy; public diplomacy; summarisation and developments in bilateral, regional and wider forms of technical, functional, economic and other cooperation, including areas such as the Law of the Sea.

INTR901 Practical Diplomacy
Spring session; 8 credit points (3 hrs per wk of 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 session; 8 credit points (3 hrs per wk 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 organisations. Issues, blocs, and the politics of international economic, technological and functional co-operation, including foreign aid. Class work and assignments involve extensive and intensive analysis of particular issues, countries, alliances and organisations.
Co-ordinator: Professor E P Wolfers.

INTR911 Politics in the South Pacific
Autumn session; 8 credit points (3 hrs per wk 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 cooperation. 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.
Co-ordinator: Professor E P Wolfers.

INTR912 Pacific Rim and Pacific Basin
Spring session; 8 credit points (3 hrs per wk 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 the foreign relations, including relations with advanced industrial and industrialising countries, and regional and as well as inter-regional co-operation, of countries in Southeast Asia and the South Pacific. The subject addresses significant issues in defence, aid, trade, investment and other kinds of international flows and co-operation (including communications, fisheries, and the law of the sea). Particular attention is paid to nuclear and environmental issues; the security and vulnerability of small-island states; colonialism and self-determination; proposals for a New International Economic Order; Asia-Pacific co-operation, and other questions of particular concern to countries on the Pacific Rim and in the Pacific Basin.
Co-ordinator: Professor E P Wolfers.

INTR920 Advanced International Economic Relations
Spring session; 8 credit points (3 hrs per wk of lectures and tutorials).
Assessment: essays, seminars and assignments.
The subject examines policy issues in the international economy especially as they affect the Asia-Pacific region. The role of international economic organizations such as the IMF, World Bank and GATT is 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 are explored.
Co-ordinator: Associate Professor R Castle.

INTR921 Advanced International Economics
Spring session; 8 credit points (3 hrs per wk lectures and tutorials).
Assessment: essay, seminar and examination.
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).

INTR922 Advanced Topics in Economics
Autumn or Spring session, depending on the topics covered; 8 credit points (3 hrs per wk 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 Departments concerned consider to be suitable preparation for a higher degree and appropriate to the student’s special interests.

INTR930 Organisational Behaviour
Autumn session; 8 credit points (2 hrs lectures per wk).
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 session; 8 credit points (2 hrs lectures per wk).
Assessment: examination and essays.
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 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 or Spring session; 8 credit points (2 hrs lectures per wk).
Assessment: assignments, seminars, examinations.
A special topic selected from any area of management. The selection is made by the Heads of Department 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 session; 8 credit points (minimum one hr/wk by personal arrangement with member(s) of staff).
Assessment: 7,500 words of research papers.
This subject is intended to provide 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 approval of the Co-ordinator of the Postgraduate Program in International Relations, and may be determined by the availability of suitably qualified staff.
Co-ordinator: Professor E P Wolfers.

INTR941 Case Study in International Politics B
Spring session; 8 credit points (minimum one hr/wk by personal arrangement with member(s) of staff).
Assessment: 7,500 words of research papers.
This subject is intended to provide 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 approval of the Co-ordinator of the Postgraduate Program in International Relations, and may be determined by the availability of suitably qualified staff.

Co-ordinator: Professor E P Wolfers.

INTR950 Australia: Making of a Nation
Spring session; 8 credit points (3 hrs of lectures/seminars).
Assessment: 7,500 words in essays/seminar papers.

This subject is intended to provide a detailed examination of twentieth century Australia, in the light of notions of dependency and autonomy, in order to assess the extent to which nationalism 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. The distinctive features of modern Australian political institutions, as well as internal and external policies are identified, and changes examined. The nature of Australian cultural traditions, including social, racial and class differences, are discussed. The subject concludes by returning to the question of national identity and the real and imagined quality of Australian independence.

INTR957 Post-War Economic and Social Development of East Asia

Autumn or Spring session, depending on the area(s) covered; 8 credit points (3 hrs of lectures/seminars).
Assessment: 7,500 words in essays/seminar papers.

This subject traces economic and social development in East Asia since the Second World War. It covers some 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 session; 8 credit points (3hrs 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.

Co-ordinator: Dr A Vickers.

INTR960 Research Project in International Relations

Autumn, Spring; Summer session; 16 credit points (1hr/wk by arrangement with member(s) of staff).
Assessment: 15,000 words, research project
Pre-requisite: Honours at a minimum level of III(ii) 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.

Co-requisite: None

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.

Co-ordinator: Professor E P Wolfers.

INTR961 Research Project in International Relations

Annual session; 16 credit points (1hr/wk by arrangement with member(s) of staff).
Assessment: 15,000 words, research project
Pre-requisite: Honours at a minimum level of III(ii) 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.

Co-requisite: None

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.

Co-ordinator: Professor E P Wolfers.
MARITIME POLICY

COURSE OFFERED

The following postgraduate course is available:

1. Master of Arts

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.

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<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td></td>
<td><strong>Compulsory Core Subjects:</strong></td>
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</tr>
<tr>
<td>MPOL901</td>
<td>National Dimensions of Maritime Policy</td>
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<tr>
<td>MPOL902</td>
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<td></td>
<td><strong>Elective Subjects:</strong></td>
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<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>
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<tr>
<td>MPOL920</td>
<td>Marine Environmental Management</td>
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<tr>
<td>MPOL921</td>
<td>Marine Environmental Planning</td>
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<tr>
<td>MPOL931</td>
<td>International Maritime Environmental Law</td>
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<td>MPOL932</td>
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<td>MPOL941</td>
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<tr>
<td>MPOL951</td>
<td>Selected Topics in Maritime Policy (1)</td>
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<td>MPOL952</td>
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<td>MPOL960</td>
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<tr>
<td>MPOL961</td>
<td>Research Project in Maritime Policy</td>
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</tbody>
</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 Department of History and Politics before enrolment.

For further details, see Course Requirements below.

COURSE REQUIREMENTS

The postgraduate program in Maritime Policy is offered by the Department of History and Politics. 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.

SUBJECT DESCRIPTIONS

The co-ordinators for MPOL911, MPOL912 are yet to be finalised and the Department will make the final details available to students.

MPOL901 National Dimensions of Maritime Policy

Autumn session; 8 credit points (3 hrs per wk of lecture/seminar).

Assessment: 7,500 words in essays and seminar papers.

The subject introduces students to the field of maritime policy. It provides an overview of conceptual approaches and analytical tools used in public policy analysis as well as an introduction to major substantive areas of national maritime policy. It is interdisciplinary in nature, and participants are encouraged to bring a broad perspective to policy analysis through the use of concepts used in economics, science, management, law and politics. Particular policy areas to be considered include defence, marine industry, marine science and technology, offshore resource development, integrated coastal management, coastal surveillance, shipping and port development and oceans policy. The subject compares and contrasts Australia's experience with maritime policy with that of other countries, particularly the United States of America and Canada. Particular attention is paid to regional
Maritime Policy

Maritime Policy 101

Maritime Policy concerns in the South Pacific and Southeast Asia.

Pre-reading:
Co-ordinator: Professor E P Wolters.

MPOL902 International Issues in Maritime Policy

Spring session; 8 credit points (3 hrs per wk of lecture/seminar).
Assessment: 7,500 words in essays and tutorial papers.
The subject examines maritime policy issues in an international context. In doing so, it deals with humanity's usage of the sea in a historical context and the foreign policy implications of maritime policy. It addresses international factors including the legal framework and theories of maritime power and strategy, before examining the emergence of international regimes in the maritime environment. Particular regimes considered include the legal regime, environment regime, resources regime, the trade regime, ports regimes, and finally the illegal activities regimes.
Co-ordinator: Professor E P Wolters.

MPOL911 Maritime Transport I: International Shipping

Autumn session; 8 credit points (3 hrs per wk of lecture/seminar).
Assessment: 7,500 words in essays and tutorial papers.
This subject focuses on the way in which the international shipping market is structured and operates. It examines the determinants of supply and demand for shipping and the factors which have been, and are, responsible for changes in the market. It looks at individual submarkets — dry bulk, tankers and liner shipping, for example; and at freight rates and the pricing of shipping services. It pays special attention to recent developments in shipping including developments in containerisation, hub and feeder operations and intermodalism. It also looks at shipping developments in Southeast Asia and Pacific region countries; and at Australian flag shipping and changes in Australian shipping policy.

MPOL912 Maritime Transport II: Port Development

Spring session; 8 credit points (3 hrs per wk of lecture/seminar).
Assessment: 7,500 words in essays and tutorial papers.
This subject deals with the strategic development of ports. It assesses a number of approaches to the way in which ports are planned; and pays particular attention to the concepts of competitive efficiency and competitive advantage. It examines issues of port performance, port pricing and port investment policies. The subject reviews recent developments in Australian port development policy and in the development policies of ports in New Zealand, Southeast Asia and the Pacific Region.

MPOL920 Marine Environmental Management

Spring session; 8 credit points (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: 2 essays (10% each), 1 research report (40%) and final examination (40%).
This subject covers topics designed to give students a comprehensive overview of the scientific basis of marine environmental management. The subject adopts a multidisciplinary approach to the scientific understanding of how major marine ecosystems work and shows how an appreciation of such knowledge leads to the development of appropriate management strategies for these systems. While there is some emphasis on the Australian situation, much of the material is applicable in any country. The systems covered include estuaries, reefs, coastal wetlands and lagoons. In addition, the science of the management of hazardous wastes (including radioactive materials) is discussed. Case studies from Australia, South-East Asia and the Pacific Islands are included. As part of the subject, students complete a team project to facilitate the development of interdisciplinary skills and an appreciation of the benefits of teamwork in addressing environmental management issues.
Textbooks:
Co-ordinator: Professor J Morrison.

MPOL921 Marine Environmental Planning

Autumn session; 8 credit points 56 hrs lecture/seminar per session).
Assessment: 2 essays (10% each), 1 research report (40%) and final examination (40%).
This subject presents material necessary for a comprehensive overview of the status and development of marine environmental planning in government and industry. Students are introduced to the principles of environmental planning. This is followed by presentations from staff from a wide range of organisations involved in environmental planning in order to highlight and explain the mechanisms, difficulties and benefits of current planning activities in Australia. While the emphasis is on the Australian situation, reference to activities in other countries are included, in addition to aspects of the global situation regarding environmental planning. As part of the subject, students complete a team project to facilitate the development of interdisciplinary skills and an appreciation of the benefits of teamwork in addressing environmental management issues.
Co-ordinator: Professor J Morrison.

MPOL931 International Marine Environmental Law

Autumn session; 8 credit points (3 hrs per wk of lecture/seminar).
Assessment: 7,500 words in essays and seminar papers.
This subject uses as its conceptual framework sovereignty and sovereign rights. Students will be introduced to the concept of Port State and Flag State responsibilities and powers; pollution controls in zones of jurisdiction, marine resource conservation, pollution control on the high seas; pollution control in the Area; the role of international and regional institutions within the subject's conceptual framework and the effectiveness of current marine environmental protection rules.
Co-ordinator: Professor M Tszamienyi.

MPOL932 The Law of the Sea

Spring session; 8 credit points (3 hrs per wk of lecture/seminar).
Assessment: 7,500 words in essays and seminar papers.
This subject examines the evolving law of the sea from an historical perspective; examines maritime zones of jurisdiction (internal waters; territorial sea; contiguous zone; the exclusive economic zone; the high seas; the continental shelf and the Area); navigational regimes (transit passage, innocent passage, archipelagic sea lanes passage); maritime boundary delimitation and marine resources law (fisheries and oil/natural gas).
Co-ordinator: Professor M Tszamienyi.

MPOL941 History and Politics of Sea Power

Autumn session; 8 credit points (3 hrs per wk of lecture/seminar).
Assessment: 7,500 words in essays and seminar papers.
This subject reviews the evolution of theories of sea power and maritime strategy from the early theorists of the nineteenth century to the post-Cold War tacticians of today. It addresses the relationship between ideas about the use of naval force and the actual history and politics of maritime power. In this respect, it evaluates the ideas of geopoliticians from Admiral Alfred Thayer Mahan and Sir Halford Mackinder through Nicholas Spykman and the planners of Total War to post-Cold War experts like Colin S Gray and his ilk. It relates the work of these theorists to the emergence of naval force and counterforce in the modern world. It also examines the development of seapower in peacetime as an instrument of state policy from the days of Gunboat Diplomacy to the age of United Nations peacekeeping at sea.
Textbooks:
Co-ordinator: Dr P Sales/Professor E P Wolters.

MPOL951 Selected Topics in Maritime Policy (1)

Autumn session; 8 credit points (3 hrs per wk of lecture/seminar).
Assessment: 7,500 words in essays and seminar papers.
This subject provides students with the opportunity to undertake a closely supervised programme of study, including reading and other appropriate forms of research, in an approved, specialist area of Maritime Policy.
Co-ordinator: Professor E P Wolters.
MPOL952 Selected Topics in Maritime Policy (2)
Spring session; 8 credit points (3 hrs per wk of lecture/semimr).
Assessment: 7,500 words in essays and seminar-papers.
This subject provides students with the opportunity to undertake a closely supervised programme of study, including reading and other appropriate forms of research, in an approved, specialist area of Maritime Policy. (This subject covers a different range of topics from those covered in MPOL 951 Selected Topics in Maritime Policy (1).)
Co-ordinator: Professor E P Wolfers.

MPOL960 Research Project in Maritime Policy
Autumn, Spring, Summer sessions; 16 credit points (minimum 1hr/wk by arrangement with member(s) of staff).
Assessment: 15,000 words, research project.
Pre-requisite: Honours at a minimum level of III(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.
Co-ordinator: Professor E P Wolfers

MPOL961 Research Project in Maritime Policy
Annual session; 16 credit points (minimum 1hr/wk by arrangement with member(s) of staff).
Assessment: 15,000 words, research project.
Pre-requisite: Honours at a minimum level of III(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.
Co-ordinator: Professor E P Wolfers
MODERN LANGUAGES

The Department of Modern Languages offers a range of undergraduate programs in French, Italian, Spanish and Japanese. The Department has a strong commitment to research and accepts postgraduate students in French, Italian, Spanish and Japanese. In recent years, computer-aided language learning has been one of the focal points of departmental research.

FACILITIES

The Department has a fully equipped language laboratory and private study laboratory. There is also a computer laboratory for language learners. The Department 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 (European Studies)
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:

1. 19th Century French novel
2. Society and medicine in the novels of Balzac
3. French and European minorities
4. Computer-aided language learning (French, Italian, Spanish, Japanese)
5. Linguistics applied to the teaching of French and Japanese as a second language
6. Intonation analysis
7. Language teaching methodology and materials development at the secondary and tertiary levels
8. War, armies and society of early modern Iberia
9. The Habsburg government of Portugal and War of Portuguese Independence, 1580-1668
10. Local government in early modern Spain
11. 20th Century Italian novel and society
12. Private life in 13th and 14th century Italian novellistica
13. Italo-Australian studies
14. Italian lexicography
15. Translation (English-Italian, Italian-English)
17. Systemic functional linguistics: Japanese
18. Japanese language education
19. Japanese theatre and literature
20. Japanese economic and social issues
21. English for Academic Purposes

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.

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<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<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>
</tbody>
</table>

Graduate Diploma in Arts (European Studies)

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 departments in the Arts schedule. These will be approved by the Head of Department of Modern Languages.

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>JAPA550</td>
<td>Japanese Studies Abroad</td>
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</tbody>
</table>

This diploma is only available to graduates in Japanese studies from the University of Wollongong.
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; criminal justice 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; criminal 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).

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tr>
<td>(i)</td>
<td>Master of Arts</td>
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<tr>
<td>Core</td>
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<tr>
<td>PHIL923</td>
<td>Minor Thesis</td>
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<tr>
<td>(ii)</td>
<td>Master of Arts (Applied Ethics)</td>
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<tr>
<td>Core</td>
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<tr>
<td>PHIL935</td>
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<td>PHIL955</td>
<td>Theoretical Ethics</td>
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<td>PHIL965</td>
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<tr>
<td>PHIL976</td>
<td>Ethical Issues in Research</td>
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<td>PHIL986</td>
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<tr>
<td>PHIL995</td>
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</tbody>
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For further details, see Course Requirements below.
OTHER POSTGRADUATE SUBJECTS

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<th>Number</th>
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<td>PHIL913</td>
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<td>PHIL990</td>
<td>Feminist Political Philosophy</td>
<td>8</td>
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<tr>
<td>PHIL999</td>
<td>Major Thesis</td>
<td>48</td>
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</tbody>
</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 Department.

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 Department 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 1994 (subject to enrolments) are: Bioethics, Professional Ethics and Responsibility in Health Care, The Ethics of Institutional Dispute Resolution 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 is co-taught by members of the Philosophy Department 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 (8 credit points) from PHIL965, PHIL976, PHIL986 and PHIL995. Candidates who have done PHIL206, or equivalent, are required to take one core subject PHIL935 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 candidature, 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.

SUBJECT DESCRIPTIONS

Where textbooks are not specified, details will made made available at a later date.

PHIL913 Advanced Philosophical Topics

Double session (A): 48 credit points (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 as laid down in the requirements for such components as are approved or prescribed.

An approved, or prescribed selection of courses provided by the Department under other designations deemed by the Head of the Department to be appropriate as a foundation for postgraduate studies, given the background and intended pursuits of the individual student.

Textbooks:

As laid down in the requirements for the component courses.

Co-ordinator: Associate Professor R Dunn.

PHIL923 Minor Thesis

Double session (A); 24 credit points.

PHIL935 Applied Ethics

Autumn session: 8 credit points (3 hrs per wk).

Pre-requisite: Bachelor's degree (pass or honours) in any field, or equivalent. Not to count with PHIL 206.

Assessment: 60% major research assignment (3,500 words), 40% seminar participation and papers (2 x 1,000 words).

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; Animal Rights and the Environment; Sexual Issues; Civil Disobedience; Punishment; Censorship; Warfare; Nuclear Deterrence; Hunger and Welfare; Suicide and Death.

Co-ordinator: Dr J Burgess.

PHIL955 Theoretical Ethics

Spring session; 8 credit points (3 hrs per wk).

Pre-requisite: Bachelor degree (pass or honours) in any field, or equivalent. Not to count with PHIL251 or PHIL301.

Assessment: 60% major research assignment (5,500 words), 40% seminar participation and papers (2 x 1,000 words).
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.

Co-ordinator: Associate Professor R Dunn.

PHIL965 Bioethics
Spring session; 8 credit points (3 hrs per wk).
Pre-requisite: Bachelor degree (pass or honours) in any field, or equivalent.
Assessment: 60% major research assignment (3,500 words), 40% seminar participation and papers (2 x 1,000 words).

A systematic study of a range of problems in bio-medical ethics. Among the topics for discussion will be a selection of the following: euthanasia; abortion; in vitro fertilization and anonymous donor programs; human embryo and foetal research; genetic engineering; surrogacy; moral problems of decision-making in health care and the allocation of health resources; organ transplantation; expert-menetation involving human subjects.

Co-ordinator: Dr S Uniacke.

PHIL976 Ethical Issues in Research
Autumn session; 8 credit points (3 hrs per wk).
Pre-requisite: Bachelor degree (pass or honours) in any field, or equivalent.
Assessment: 60% major research assignment (3,500 word), 40% seminar papers (2 x 1,000 words).

Live human participants are regularly used as subjects in many different kinds of research. This subject critically examines the ethical issues emerging from research involving people. Comparisons of differing areas of ethical concern in different kinds of research (drug trials, sociological research, behavioural research, criminology, participant observation, anthropological research, preventative health research, etc) are made in light of the bioethical literature. Topics to be discussed include: arguments justifying human subjects research; consent, confidentiality and fraud; research subjects; disadvantaged groups in research; participants who are unable to consent; use of research findings, subsequent research and participant feedback; role of institutional ethics committees; codes of research ethics; and governmental, institutional and individual responsibility in research.

Co-ordinator: Dr S Dodds.

PHIL986 Applied Ethics Topics
Autumn session; 8 credit points (3 hrs per wk).
Pre-requisite: Bachelor degree (pass or honours) in any field, or equivalent.
Assessment: Written work equivalent to 5,500 words in form of essay and seminar presentations. The breakdown of assessment will be negotiated at the beginning of session.

This subject offers students enrolled in the MA (Applied Ethics) the opportunity to investigate one or more issues in applied ethics in detail at an advanced level. Students wishing to enrol in this subject must discuss their proposal with the Head of Department.

Normally this will be a reading program determined by the supervisor and student in consultation with the Head of Department.

PHIL990 Feminist Political Philosophy
Autumn session; 8 credit points (3 hrs per wk).
Pre-requisite: Bachelor degree (pass or honours) in any field, or equivalent.
Assessment: two 3,000 word essays (40% each) and seminar participation including a seminar presentation (20%).

This subject critically examines some themes in contemporary feminist political philosophy. Topics include the roles envisaged for women, children and families in traditional liberal, conservative and socialist political theory and the responses of feminist political theorists to these accounts. Communitarian political theories will also be examined from a feminist perspective.

Particular emphasis will be placed on the tensions between ideals of citizenship and women's reproductive capacities; tensions among ideals of justice and equality and the cultural subordination of woman's role and the theoretical problems which arise in attempts to distinguish the 'political life' of a state from the 'private lives' of the citizenry.

Textbooks:

Co-ordinator: Dr S Dodds.

PHIL995 Environmental Ethics
Spring session; 8 credit points (3 hrs per wk).
Pre-requisite: Bachelor degree (pass or honours) in any field, or equivalent. Not to count with PHIL256.
Assessment: 60% major research assignment (3,500 words), 40% seminar participation and papers (2 x 1,000 words).

A systematic study of problems of environmental ethics. Among the topics for critical discussion will be a selection of the following: the place of humankind in nature and the ethical principles that ought govern our treatment of the environment; the ethics of research using non-human animals, and the use and production of non-human animals for food, clothing, etc; the nature and extent of our moral obligations to the third world and to future generations; 'deep' versus 'shallow' theories of environmental ethics; whether a new, environmental ethic is necessary.

Co-ordinator: Dr J Burgess.

PHIL999 Major Thesis
Double session (A); 48 credit points.
POLITICS

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 1997 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.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>POL902</td>
<td>Advanced Topics in Australian Politics</td>
<td>12</td>
</tr>
<tr>
<td>POL903</td>
<td>Issues in Australian Public Policy</td>
<td>12</td>
</tr>
<tr>
<td>POL914</td>
<td>Power and the Modern State</td>
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</tr>
<tr>
<td>POL922</td>
<td>Advanced International Relations</td>
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</tr>
<tr>
<td>POL931</td>
<td>From Revolution to Reform in CIS, Eastern and Central Europe</td>
<td>12</td>
</tr>
<tr>
<td>POL932</td>
<td>Contemporary Chinese Politics</td>
<td>12</td>
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<tr>
<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>
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</tbody>
</table>

For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

<table>
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<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<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.

SUBJECT DESCRIPTIONS

POL902 Advanced Topics in Australian Politics

Autumn session; 12 credit points (3 hrs per wk lectures and tutorials).

Assessment: 9,000 words of essays and tutorial papers.

The subject provides opportunities for detailed study of significant issues, institutions and processes affecting politics in Australia. The focus is on public policy and on the exploration and 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.

Co-ordinator: Dr S Reglar

POL903 Issues in Australian Public Policy

Spring session; 12 credit points (4 hrs per wk lectures and tutorials).

Assessment: review of 1,000 words 10%, essay of 2,500 words 25%, critique of 2,500 words 25% and research paper of 3,000 words 40%.

This subject 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. It 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.

Co-ordinator: Dr S Reglar.

POL914 Power and the Modern State  
Spring session; 12 credit points (3 hrs per wk lectures and tutorials).  
Assessment: 9,000 words in essays and tutorial papers.

This subject examines a variety of perspectives on the nature and exercise of power in the modern state. It includes an advanced study of 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. Concepts such as authority, processes such as legitimization, and relationships between classes, interest groups, social movements and the state are analysed in detail. Students are encouraged to pay close attention to issues in which they have particular interest, experience and/or expertise.

Co-ordinator: Dr G Melleuish.

POL932 Contemporary Chinese Politics  
Spring session; 12 credit points (4 hrs per wk lectures and tutorials).  
Assessment: 2 x 3,000 word essays each 25%, 1 x 2,000 word tutorial paper 10%, journal 20%.

This subject examines the reasons for reform in the government and administration of the People's 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.

Textbooks:  

Co-ordinator: Dr S Reglar.

POL941 Government and Politics in the South Pacific Islands  
Autumn session; 12 credit points (3 hrs per wk lectures, seminars and tutorials).  
Assessment: 9,000 words in essays, seminar and tutorial papers.

This subject examines pre-colonial and colonial politics and government in the South Pacific Islands. Particular attention is paid to nationalism, political parties and other forms of popular mobilisation, and decolonisation. Issues studied include constitution making, independence, and post-independence political arrangements, including challenges to the authority of successor states. The role of politics, government, policy-making and implementation, including the impact of external forces (aid donors, lenders, investors, etc) is discussed. Students are encouraged to undertake detailed case-studies of particular issues, institutions, countries or regions; to draw on, apply and test-relevant bodies of theory; and to make systematic comparisons (which need not be confined to the region).

Co-ordinator: Professor E P Wolfers.

POL951 Major Thesis  
Double session (A); 48 credit points.  
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. Honours Master of Arts by coursework and/or research
3. Master of Arts (Science and Technology Studies)
4. Graduate Diploma in Arts

POSTGRADUATE PROGRAMS

Science and Technology Studies

CURRENT RESEARCH AREAS

The following areas of research available to candidates undertaking the Honours Master of Arts degree by research and the Doctor of Philosophy degree include:

Environment and socio-technical change
Science, technology and public policy
Political sociology of scientific knowledge
The social and economic context of technological change
Technology policy and industrial performance
The politics of medicine and health
Women and science
Evolutionary theory in the nineteenth century
Scientific controversy and the sociology of knowledge
Darwinism, social Darwinism and neo-Darwinism
The impact of genetics in agriculture and medicine
The social impact and politics of information and communications technology
Politics of atmospheric crisis
Philosophy and sociology of scientific change
Technical, ideological and institutional origins of Mechanism and Cartesianism 1600-1660
Structure of scientific discourses - 'systems of nature', and doctrines of 'method'
History and Sociology of technology
Work, automation and employment
Artificial intelligence and social control
Technical controversies and political intervention
Risk assessment and the politics of hazard
Energy strategies and organisation for sustainable development
Peace and war

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN SCIENCE AND TECHNOLOGY STUDIES

leading to the Honours Master of Arts (Program 1).

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<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>STS901</td>
<td>Theories and Methods of Science and Technology Studies</td>
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<tr>
<td>STS921</td>
<td>Dynamics of Science and Technology</td>
<td>12</td>
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<tr>
<td>STS902</td>
<td>Advanced Topics in Science &amp; Technology Studies</td>
<td>12</td>
</tr>
<tr>
<td>STS909</td>
<td>Topics in History of Western Science and Technology</td>
<td>12</td>
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<td>plus either</td>
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<tr>
<td>STS903</td>
<td>Minor Thesis</td>
<td>24</td>
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<tr>
<td>Electives</td>
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<td>or</td>
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<tr>
<td>STS924</td>
<td>Major Thesis</td>
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Electives:

- STS910 Gender and Body Politics 8
- STS914 Master Narratives, Myth and Symbolic Politics in Science 12
- STS929 Studies in Resource and Environmental Policy 8
- STS931 Risk Assessment, Health & Safety 12
- STS933 Energy and Technological Development 12
- STS934 Genetics and Technological Innovation 12
- STS935 The Impact of Computers and Communication Technology 12
- STS936 Critical Studies in Medicine and Health 12

For further details, see Course Requirements below.
POSTGRADUATE PROGRAM IN SCIENCE AND TECHNOLOGY STUDIES
leading to the Master of Arts (Program 2).

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>STS921</td>
<td>The Dynamics of Science and Technology</td>
<td>12</td>
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<tr>
<td>STS901</td>
<td>Theory and Methods of Science and Technology Studies</td>
<td>12</td>
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<tr>
<td>STS902</td>
<td>Advanced Topics in Science and Technology Studies</td>
<td>12</td>
</tr>
<tr>
<td>STS951</td>
<td>Research Report</td>
<td>12</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in STS999.

2. HONOURS MASTER OF ARTS

The Department of Science and Technology Studies offers Honours Masters programs to students with a background in Science and Technology Studies who wish to pursue their studies at a higher level.

PROGRAM 1 - Honours Master of Arts (Science and Technology Studies)

This program is open to students with a substantial background in Science and Technology Studies who wish to pursue their studies at a higher level. Students entering the program with a degree in Science and Technology Studies, or its equivalent (as determined by the Head of Department), at a standard below Honours Class II, Division 2 will be required to complete subjects with a value of at least 96 credit points. Those with an Honours degree in Science and Technology Studies, or its equivalent, at a standard of Class II, Division 2 or higher will be required to complete subjects with a value of at least 48 credit points.

Students required to complete 96 credit points must complete 48 credit points before they enrol in either STS903 Minor Thesis, or STS924 Major Thesis, one of which must be completed by all students enrolled in Program 1.

3. MASTER OF ARTS

Science and technology play central and crucial roles in our society. Their social and economic implications are becoming increasingly important and contentious issues. This postgraduate course is offered by the Department of Science and Technology Studies to science, applied science, humanities and social science graduates who wish to further their understanding of the forces shaping science and technology and their social, economic and political dimensions in modern industrial society.

PROGRAM 2 - Master of Arts (Science and Technology Studies)

This program offers a coherent set of courses in the area of science and technology in their socio-economic and political contexts, together with a research component.

The degree of Master of Arts in Science and Technology Studies has been designed for graduates without an extensive STS background and is of particular relevance to those employed in government, administration and management, teaching and educational planning; and relevant to those more generally concerned with the social relations of science, medicine and technology.

Students entering the Masters program in Science and Technology Studies will be required to complete subjects with a value of 48 credit points as set out in the Schedule for this Program.

Interdisciplinary Seminar
Students enrolled in either Program 1 or Program 2 are required to attend and contribute to a series of regular informal seminars and discussion meetings held within the Department of Science and Technology Studies during Autumn and Spring Sessions.

Assessment
Continuous assessment by written assignments and seminar presentations, together with a research report (Program 2), minor or major thesis (Program 1).

Entry to Course
Will be dependent upon approval by the Head of Department.

Program Determination
Students wishing to enrol for the Honours Master of Arts, Program 1 or Master of Arts, Program 2, must have their proposed course of study approved by the Head of the Department.

4. 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 Department of Science and Technology Studies and the Head of the other department concerned, 12 credit points may be taken from suitable subjects listed in the Arts Schedule under other Departments;

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 Department;

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 candidacy for the Graduate Diploma is on the recommendation of the Head of the Department of Science and Technology Studies.

SUBJECT DESCRIPTIONS

Where textbooks, materials and/or subject co-ordinators are not specified, details will be made available at a later date. The Co-ordinators for STS901, 902, 910, 921, 934, 935, 936, 945, 946, 947, 948 and 951 are yet to be finalised and the Department will make the final details available to students.

STS901 Theories and Methods of Science and Technology Studies

Autumn or Spring session; 12 credit points (3 hrs seminars per wk).
Assessment: essays and seminar papers. Students will study topics appropriate to their field of special interest subject to the approval of the Head of Department.

STS902 Advanced Topics in Science and Technology Studies

Autumn or Spring session; 12 credit points (3 hrs seminars per wk).
Assessment: essays and seminar papers. Students will study topics appropriate to their field of special interest subject to the approval of the Head of Department.

STS903 Minor Thesis

Autumn or Spring session; 24 credit points (3 hrs per wk).
Assessment: thesis. A thesis embodying the result of an original investigation of a problem approved by the Head of the Department under the supervision of a staff member.
The cultural meanings of science have become co-opted by the institution of science, by historically contingent discursive weapons. Accordingly, the previously received wisdom — including some of its internal conflicts — and examines the grounds of its deconstruction and collapse, as seen from within recent critical theoretical developments in the history, philosophy and sociology of science. Topics will include: (1) Traditional master narratives of the history of science — idealist/ Marxist/ functionalist — and their construction from Bachland, through Kuhn to post-Kuhnian history and sociology of science; the common ‘whiggish’ discursive ‘deep structure’ of formally opposed ‘internalist’ and ‘externalist’ narratives of science. (2) The lingering cult and symbolism of method: the discursive dynamics and rhetorical functions of method discourse (Feyerabend/Schuster); the abortive careers of ‘born-again’ methods narratives from Popper to Lakatos and Laudan. (3) Science as subscription: scientific discoveries, facts and tests as textual and rhetorical accomplishments; and textuality and historicity of scientific hardware. (4) The possibility and ways to deconstruct new master narratives for old in the 17th century rise of modern science and the 18th century emergence of experimental fields. (5) Myth, symbol and master narrative in current science policy discourse and the wider public politics of science.

Assessment: major essay, seminar paper, presentation and participation.

Co-ordinator: Associate Professor J. A. Schuster.

STS921 The Dynamics of Science and Technology
Spring session; 12 credit points (3 hrs per wk).

The aim of this subject is to introduce students to contemporary research on the dynamics of science and technology (S & T) in their social context. This general aim is addressed through an assessment of the alternative explanations of scientific and technological change and how they inform the promotion and regulation of S & T for economic and political purposes. Against the background of a critical evaluation of traditional linear approaches to science, technology and development, the subject introduces the student to (i) contemporary approaches to scientific and technological change and their implications for the promotion of science and technology; (ii) alternative perspectives on scientific and technological control and their implications for the regulation of science and technology; and (iii) the realities of bureaucratic politics and socio-technical engineering in combining ‘internal’ and ‘external’ influences on S & T and ‘promotion’ and ‘regulation’ mechanisms in shaping sectoral, institutional and national forms of development. The course concludes with a discussion of the implications of contemporary perspectives on the dynamics of S & T for the role of the policy analyst.


STS924 Major Thesis
Double session (A); 48 credit points (2 hrs per wk).

A thesis embodying the results of a significant and original investigation of a Problem approved by the Head of the Department under the supervision of a staff member.

STS929 Studies in Resource and Environmental Policy
Autumn session; 8 credit points (1 hr lecture, 2 hr tutorial).

The subject will provide advanced study of the social, economic and political aspects of environmental and technological change and their implications for the social, economic and political purpose of environmental policy. It is expected that students will undertake an extensive and critical study of significant recent books which will be the focus of discussion.

The study program will rely on extensive library study in journals and books, supplemented by case study material assembled for the subject.

Co-ordinator: Professor J. Falk.

STS931 Risk Assessment, Health and Safety
Spring session; 12 credit points (3 hrs per wk).

Assessment: essay 30%, review exercise 15%, seminar paper 15%, take-home examination 20%.

The subject investigates scientific and political aspects of environmental and occupational hazards, with special reference to contemporary Australia. Themes will include: concept of acceptable risk, public participation in decisions about risks, shaping of attitudes to risks, the social production of scientific knowledge. The course will draw on case studies which are currently being debated in Australia: eg herbicides, asbestos, radiation, fuel additives.

Co-ordinator: Dr S. Russell.

STS936 Critical Studies in Medicine and Health Care
Spring session; 12 credit points (3 hrs per wk).
Assessment: essay 50%, two seminar papers 50%.
An examination of the increasing technological dependency and automation of diagnosis and treatment in modern medicine and health care; their socio-economic and political implications.

Textbooks:

STS938 Case Studies in Science and Technology Policy
Spring session; 6 credit points (3 hrs per wk).
Assessment: tailored to individual student projects and will include a major case study report of at least 5,000 words. The objectives of this subject are to provide practical insights and experience in the application of methods of analysis, policy formulation, implementation and monitoring of science and technology in their social and political context. Case studies will be chosen on the basis of departmental and student interests and expertise. Students will engage in the analysis of one or more case studies of technological controversy taking into account their political, economic and technical dimensions. Topic areas may include consideration of issues such as the problems raised in developing and evaluating; a pesticide residue control policy; a national set of research priorities; a set of performance indicators for education funding; and negotiating a major computing system purchase.
SOCIOLOGY

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
8. Graduate Certificate in Migration and Development

POSTGRADUATE COURSEWORK PROGRAMS

Social Policy
Sociology
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 Department's research and scholarship. These interests are developed through concentration on a few key areas which the Department classifies in two crosscutting ways: by specialisation and by regional foci.

The disciplinary specialisations are Urban and Regional studies, Intercultural studies (encapsulating the areas of multiculturalism, migration, Asian societies and indigenous peoples) and Women's studies. The principal regional research foci of the Department are Australia and the Asia/Pacific region, with the emphasis being on comparative perspectives.

These are the Department's priority areas for postgraduate teaching, research and scholarship.

Members of the Department are active in a number of Research Centres and Groups in the Faculty. The University's Centre for Multicultural Studies is also a unit within the Department. These structures enhance the Department'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.

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<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>Core:</td>
<td>Postgraduate Sociology Seminar</td>
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<tr>
<td>SOC933</td>
<td>Advanced Research Techniques</td>
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<tr>
<td>Plus at least two of the following:</td>
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<tr>
<td>SOC940</td>
<td>Contemporary Social Policy Theory and Practice</td>
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<tr>
<td>SOC942</td>
<td>Advanced Race and Ethnic Studies</td>
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<tr>
<td>SOC943</td>
<td>Advanced Urban Society</td>
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<tr>
<td>SOC946</td>
<td>Practical Communication and Communication Theory</td>
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<tr>
<td>SOC959</td>
<td>Advanced Studies of Gender in Society</td>
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<tr>
<td>Electives:</td>
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<tr>
<td>SOC906</td>
<td>Sexuality, Health Issues and Social Policy</td>
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<td>SOC918</td>
<td>Advanced Sociology of Development</td>
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<tr>
<td>SOC938</td>
<td>Sociology, Ethics and Health</td>
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</tr>
<tr>
<td>SOC949</td>
<td>Advanced Social Regulation: Policies and Issues</td>
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<tr>
<td>SOC950</td>
<td>Advanced Studies of the Individual in Society</td>
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<tr>
<td>SOC961</td>
<td>Women, Migration and Development</td>
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<tr>
<td>SOC962</td>
<td>Nationalism and Minorities in the Asia-Pacific Region</td>
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<td>SOC970</td>
<td>Advanced Social Movements</td>
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<tr>
<td>CMS904</td>
<td>Australian Multiculturalism: Social Policy and Cultural Identity in a Changing Society</td>
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<tr>
<td>CMS905</td>
<td>New Migrations and Global Change</td>
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(A Special Topic may be substituted for one of the electives with the permission of the Head of Department.)
For further details see, Course Requirements below.

*Not on offer in 1997
1 Subject currently offered by PAGE. For further details see Subject descriptions.
POSTGRADUATE PROGRAM IN SOCIAL POLICY
leading to the Master of Policy (Social Policy).

Core: Subject Credit Points
SOC904 An Introduction to Policy and Program Evaluation 8
SOC933 Research Techniques 8
SOC940 Contemporary Social Policy Theory and Practice 8
Electives: at least two of the following:
SOCI905 Social Policy Research Project 8
SOC906 Sexuality, Health Issues and Social Policy 8
SOC918 Sociology of Development 8
SOC938 Sociology, Ethics and Health 8
SOC942 Advanced Race and Ethnic Studies 8
SOC949 Advanced Social Regulation, Policies and Issues 8
Eldctives
CMS904 1 Australian Multiculturalism: Social Policy and Cultural Identity in a Changing Society 8
CMS905 1 New Migrations and Global Change 8
SOC918 Advanced Sociology of Development 8
SOC921 Special Topic in Sociological Studies 8
SOC943* Advanced Urban Society 8
SOC999 Advanced Studies of Gender in Society 8
SOC961 Women, Migration and Development 8
SOC962 Nationalism and Minorities in the Asia-Pacific Region 8
SOC970 Advanced Social Movements 8
LAW960 Law for Professionals 8

(A Special Topic may be substituted for one of the electives with the permission of the Head of the Department).

For further details, see Course Requirements below.

OTHER POSTGRADUATE REQUIREMENTS

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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 Department, 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. Students may enrol in Sociology or Multicultural Studies as appropriate.

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 a 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 the Department or post-graduate coordinator 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 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 prerequisite for subjects included in the

*Not on offer in 1997.
1 Subject currently offered by PAGE. For further details see Subject Descriptions.
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 the Department 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 the Department;
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 Department who shall assess the applicant's aptitude for sustained sociological study at a reasonably advanced level.

8. GRADUATE CERTIFICATE IN MIGRATION AND DEVELOPMENT*

This certificate is offered only by distance education via the Profession and Graduate Education (PAGE) consortium and in collaboration with the Special Broadcasting Service (SBS). The course is concerned with aspects of contemporary processes of globalisation, linking issues of social, economic, political and cultural change as they relate to Australia and the Asia-Pacific region. This course is run in conjunction with the Centre for Multicultural Studies. For further details on this course only, contact (042) 214 444.

SUBJECT DESCRIPTIONS

CMS904 Australian Multiculturalism: Social Policy and Cultural Identity in a Changing Society

Autumn/Spring session; 8 credit points (14 TV units).
Assessment: short essay 20%, book review 30%, major essay 50%.
Please note: This subject is currently offered by PAGE. Students wishing to take this subject will need to contact the Head of the Department concerning availability.

This subject will describe and analyse multiculturalism in Australia as a public policy, and relate it to changes in Australia's demographic and social structure. It starts with an examination of the historical emergence of multiculturalism, showing the way in which Australian identity was constituted prior to 1945, and the factors which led to changes in the wake of the post-1945 mass immigration program. The policy of assimilation and the reasons for its failure will be examined. The demographic, socio-economic and political dimensions of community formation and the development of cultural pluralism will be analysed. The subject will go on to look at the institutional and policy implications of multiculturalism, as it has developed since 1972. The consequences of multicultural policies for the definition of citizenship and for international relations will also be examined.
Co-ordinator: Professor S Castles.

CMS905 New Migrations and Global Change

Autumn/Spring session; 8 credit points (14 TV units).
Assessment: short essay 20%, book review 30%, major essay 50%.
Please note: This subject is currently offered by PAGE. Students wishing to take this subject will need to contact the Head of the Department concerning availability.

This subject will describe and analyse contemporary mass population movements and their consequences for society. It introduces basic concepts of theoretical approaches to understanding migration, covering a number of disciplines, including sociology, political economy, economics, geography and political science. Theories of migration will be linked to analyses of global change covering economic, political and cultural dimensions. The history of international migration and its links with the emerging world market will be discussed. International migration will be examined both from the perspective of less-developed sending countries and highly-developed receiving countries. The main emphasis will be on the receiving countries. Issues to be examined include effects on labour markets, community formation and effects on cities, racism and resistance, ethnic diversity and the state, and the effects of ethnic diversity on national identity and the character of nation-states.
Co-ordinator: Professor S Castles.

SOC904 An Introduction to Policy and Program Evaluation

Spring session; 8 credit points (2 hrs seminar/workshop).
Pre-requisite: successful completion of SOC940.
Assessment: workshop participation, seminar reports, assignments.
A case-centred approach is used to examine policy issues, concentrating on exploring the methodologies of issue identification, definition, investigation, and policy development, implementation, outcome and review. Students will develop case analyses based on reading and visits to community groups. Topics may include welfare, health, employment and communications policies, programs addressed to the needs of the aged, youth, the disabled and government strategies attempting to overcome disadvantage experienced by Aboriginals, immigrants or women. Where appropriate, comparative international perspectives will be used to explore the relationships between state forms and social policies.
Co-ordinator: Mr M Morrisey.

SOC905 Social Policy Research Project

Spring session; 8 credit points (2 hrs seminar a fortnight).
Assessment: Research report of 8,000 - 10,000 words; participation in fortnightly work in progress seminars.
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.
Co-ordinator: Prof. John Bern.

SOC906 Sexuality, Health Issues and Social Policy

Spring session; 8 credit points (2 hrs seminar).
Assessment: participation, 7000 words of written work which will include a book review, a short essay and a long essay.
The 1980s and 1990s have been a time of a resurgence of politics and policy making about 'private' aspects of human social relations: sexual expression and sexual reproduction. This subject will trace the ways that feminist and sexual liberationist politics have challenged previous social theory and public policy practice by liberal democracies in these areas. Current social theory regarding gender relations and human sexuality will be considered. It will then critically examine the attempts by various Australian governments to make policy about fertility and fertility control, including reproductive technology, HIV/AIDS and other aspects of sexual health, and sexual and physical abuse of women and children.
Co-ordinator: Ms R Albury.
SOC910 Postgraduate Sociology Seminar
Autumn session; 8 credit points (2 hrs seminar)
Assessment: seminar presentations and essay.
The subject matter will explore contemporary theoretical and substantive issues in sociology. The subject will provide a means of exploring particular areas of current debate within the discipline.
Co-ordinator: Professor J Bern

SOC918 Advanced Sociology of Development
Autumn session; 8 credit points (2 hrs seminar)
Assessment: Two seminar papers, one major essay.
This subject 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 agencies will be studied, with illustrative examples from current development debates.
Co-ordinator: Dr F. Cooke

SOC921 Special Topic in Sociological Studies
Autumn/Spring session; 8 credit points (variable combination of individual supervision and seminars).
Pre-requisite: permission of Head of Department.
Assessment: one essay and tutorial assignments.
Topics for this subject may be chosen from any area of Sociology which the Head of the Department considers to be of suitable substance and level to be offered as a SOC920 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 the Department.
Co-ordinator: Refer to Head of Department.

SOC933 Advanced Research Techniques
Autumn session; 8 credit points (2 hrs seminar).
Assessment: research project and continuous assessment of work set in 'practical' seminars.
This subject 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 - questionnaire, semi-structured interviewing and formal observation. Some of the following alternative methods will be considered - film, video, analysis of public documents, participant observation, unobtrusive measures and evaluation research.
Co-ordinator: Mr M Morrissey

SOC938 Sociology, Ethics and Health
Spring session; 8 credit points (3 hrs lecture/seminar)
Assessment: 1 seminar paper and presentation, 1 essay/research project.
This subject draws on a wide range of sociological theories and a substantial body of sociological research as applied to health. Functionalism, Symbolic Interactionism, Weberian, Marxist, Feminist and Foucauldian perspectives will be examined amongst others. The subject is designed to be of interest to students of sociology as well as to people involved in the health care industry. The first part of the subject focuses on the classical sociological tradition most closely associated with the founding parents of sociology - Durkheim, Weber, and Marx. In this first part we will pay particular attention to the social origins of ethics and the cultural construction of morality using the work of these theorists as starting points for discussion. The subject then follows through the development of social theorising about health and examines issues such as role theory, the social construction of health knowledge, consumer participation in health care and the 'new public health' in the Australian context.
Textbooks:
Co-ordinator: Ms T. Vezgoff

SOC940 Contemporary Social Policy Theory and Practice
Autumn session; 8 credit points (3 hrs lecture/seminar).
Assessment: written exercises and group project.
The aim of the subject is to 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.
Co-ordinator: Dr R. Melville

SOC942 Advanced Race and Ethnic Studies
Spring session; 8 credit points (3 hrs lecture/seminar).
Assessment: essay, seminar paper, presentation and participation.
This subject 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 exploration 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.
Co-ordinators: Professor S Castles and Dr E Vasta

SOC943 Advanced Urban Society
Spring session; 8 credit points (2 hrs seminar).
Assessment: major essay, seminar paper and participation.
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.
Co-ordinator: Dr T Jagtenberg.

SOC947 Cultural Theory
Spring session; 8 credit points (2 hrs seminar).
Assessment: major essay, seminar paper, and in-class textual exercise.
This subject aims to introduce 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 Marxism 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.
Co-ordinators: Dr T Jagtenberg and Dr E Vasta.

SOC949 Advanced Social Regulation: Policies and Issues
Spring session; 8 credit points (3 hrs lecture/seminar).
Assessment: major essay/research paper, and continuous assessment of seminar work.
In this subject we analyse social regulation as a complex social process with the penal, welfare and medical spheres comprising three major areas of social control in modern industrial/post-industrial societies. The first section of the course covers a detailed examination of the competing theories in the field and an investigation of the changes in modes of social control since the sixteenth century. This provides the basis for the second part of the course in which we investigate current issues and policies of social control with an emphasis on the specific populations regulated and controlled within the three spheres.
Co-ordinator: Dr A Aungles.

* Not on offer in 1997
SOC950 Advanced Studies of the Individual in Society  
Spring session; 8 credit points.  
(3 hrs lecture/seminar/workshop).  
Assessment: major essay, seminar project, and participation.  
This subject examines fundamental aspects of human identity and explores the extent to which an individual is 'socially constructed'. The individual is located in the historical, cultural, and institutional context of 'modern'/post-modern times through a consideration of contemporary myths, ideologies and practices which provide structure and meaning to daily life (eg. love, gender, truth). The course broadly addresses the question of how personal identity is achieved in the context of change and uncertainty. These issues involve cross-cultural exploration of different models of self, identity and relationship. Students have the opportunity to explore a range of perspectives including interactionist, structuralist, post-structuralist and post-modern approaches to questions of identity. This also involves some consideration of 'non-western' traditions and questions about the ecological status of human identity.  
Co-ordinator: Dr T Jagtenberg.

SOC959 Advanced Studies of Gender in Society  
Autumn session; 8 credit points (3 hrs lecture/seminar).  
Assessment: participation, seminar papers and long essay: maximum of 2000 words.  
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. The debates to be addressed include those about the sexual division of labour, the contradictory position of women in relation to the family and the state, and the nature and role of sexuality in the constitution of femininity and masculinity. Each year the subject concentrates on a particular aspect of gender relations in Australia. The focus will be on the interaction of the state and other social institutions of gender division. Examples will be drawn from current literature.  
Please Note: Students with little or no background in the study of gender relations must consult the lecturer for preliminary reading.  
Co-ordinator: Ms L. Lyons-Lee.

SOC961 Women, Migration and Development  
Autumn or Spring session; 8 credit points.  
Assessment: to be advised.  
Pre-requisite: none  
The central theme of this subject is the increasingly important role of women in processes of development, urbanisation and migration. For many women, rural urban movement is merely the first link in a migratory chain. The subject will examine this feminisation of migration as a global tendency. The theoretical framework will include feminist theory, political economy, demography, sociological theories of migration and ethnic relations.  
Co-ordinator: Dr E Vasta.

SOC962 Nationalism and Minorities in the Asia-Pacific Region  
Autumn or Spring session; 8 credit points.  
Assessment: to be advised.  
Pre-requisite: none  
This subject will focus on the emergence of modern nation states in Southeast Asia, and the links between ethnicity and concepts of nationalism in this process. Through a series of case studies it will develop an analysis of the relationship between the state and minority groups, raising both theoretical and practical concerns.  
Co-ordinator: Refer to Head of Department

SOC970 Advanced Social Movements  
Spring session; 8 credit points (3 hrs lecture/seminar).  
Assessment: major essay, seminar paper and presentation, participation.  
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.  
Co-ordinator: Dr E Vasta.

SOC990 Minor Thesis  
24 credit points.

SOC999 Major Thesis  
48 credit points.
WOMEN’S STUDIES

COURSES OFFERED

The following postgraduate course is available:

1. 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. The listed specialisations allow students to focus their study in a particular area at a greater depth. In 1996 this degree will be administered by the Department of Philosophy.

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 departments of the Faculty of Arts which offers subjects in this degree.

POSTGRADUATE PROGRAM IN WOMEN’S STUDIES

leading to the Master of Arts.

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Specialisations

Students choose 2 subjects (at least 16 credit points) from one of the two specialisations listed below and a further 2 subjects (at least 16 credit points) as electives. It is strongly recommended that students choose one elective from another specialisation. The second may be chosen from their specialisation or from any of the subjects listed as electives below.

Textual and Visual Representation

Core

- ENGL925: Writing the Gendered Body * | 8

Options

- EDGA973: Language, Ideology and Culture | 8
- ENGL910: 20th Century Women Writers * | 8
- ENGL933: Early Women Writers | 8
- VIS910: Visual Arts Theory | 12

Gender, Policy and Society

Core

- SOC959: Advanced Studies in Gender in Society | 8

Options

- EDGA923: Sport, Culture and Education | 8
- PHIL990: Feminist Political Philosophy* | 8
- SOC906: Sexuality, Health Issues and Social Policy | 8
- SOC938: Sociology, Ethics and Health | 8
- SOC949: Social Regulation: Policies and Issues | 8
- HIST913: The Making of the Modern Australian Woman | 12

Electives

- ENGL909: Deconstructing Australia: Cultural Dissidence and the Ethics of Difference | 8
- PHIL965: Bioethics | 8
- SOC942: Advanced Race and Ethnic Studies | 8
- STS934: Genetics and Technological Innovation | 12
- STS936: Critical Studies in Medicine and Health Care | 12
- WMST903: Advanced Topics in Women's Studies | 8

Please note: Not all subjects will be available each year, refer to the relevant department and the Co-ordinator of Women’s Studies before enrolling.

For further details, see Course Requirements below.

* Not on offer in 1997.
† For 1997 only, substitute SOC 959
COURSE REQUIREMENTS

1. MASTER OF ARTS

(Administered in 1997 by the Department of Philosophy.)

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 Departments 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.

(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

WMST902 Feminist Theory

Spring session; 8 credit points (3 hrs lecture/seminar).

Pre-requisite: WMST901.

Assessment: seminar presentation and participation plus a minimum of 7000 words comprising 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 connection between feminist theory and discourses used to investigate the meanings of gender in contemporary Western culture. The subject will be divided into three parts: the social and intellectual foundations of theories of sexuality and gender; the contribution of feminist scholarship to the theoretical developments in the humanities and social sciences during the past two decades, and recent developments within feminist theory. 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.

Co-ordinator: Dr S Dodds.

WMST903 Advanced Topics in Women's Studies

Autumn/Spring session; 8 credit points (contact hrs by arrangement).

Pre-requisites: WMST901, WMST902 and specialisation (part-time students), WMST901 (full-time students).

Co-requisite: WMST 902 (full-time students).

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. The topics will be determined annually according to the availability of staff for supervision. 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.

Co-ordinator: Dr S Dodds.

Interdisciplinary Subjects

For the following subject descriptions, please refer to individual Department listing.

Faculty of Arts

Dept of English

ENGL909 Deconstructing Australia: Cultural Dissidence and the Ethics of Difference

ENGL910 20th Century Women Writers

ENGL925 Writing the Gendered Body*

ENGL933 Early Women Writers

Dept of History & Politics

HIST913 The Making of the Modern Australian Woman

Dept of Philosophy

PHIL965 Bioethics

PHIL990 Feminist Political Philosophy*

Dept of Science & Technology Studies

STS934 Genetics and Technological Innovation

STS936 Critical Studies in Medicine and Health Care

Dept of Sociology

SOC906 Sexuality, Health Issues and Social Policy

SOC938 Sociology, Ethics and Health

SOC949 Social Regulations: Policies and Issues

SOC959 Advanced Studies in Gender in Society

Faculty of Education

EDGA923 Sport, Culture and Education

EDGA973 Language, Ideology and Culture
FACULTY OF COMMERCE
FACULTY OF COMMERCE

FACULTY OFFICE

Dean: Professor Gill Palmer
Sub Dean: Dr Robert Williams
Executive Officer: Ms Anne Mitchell
Faculty Finance Officer: Ms Rosemary Cooper
External Relations Officer: Ms Belinda Schuster
Administrative Assistant: Ms Carol Wett (042) 21 3665

MEMBER UNITS

The Faculty is made up of the following 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 Total Quality Management program.

POSTGRADUATE PROGRAMS

Postgraduate programs are available in the following areas:

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To be advised

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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

POSTGRADUATE PROGRAMS

Auditing
Controllership
External Reporting
Information Systems in Accounting
International Accounting & Finance
Management Accounting
Finance

Note: All programs leading to the Master of Commerce degree have three components from which subjects are to be selected - an inner core, an outer core and approved electives.

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
Management accounting
Small business management

SCHEDULE OF PROGRAMS

POST GRADUATE PROGRAM IN EXTERNAL REPORTING
leading to the Master of Commerce or the Honours Master of Arts or Commerce.

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For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN INTERNATIONAL ACCOUNTING & FINANCE

leading to the Master of Commerce or the Honours Master of Arts or Commerce.

(i) Master of Commerce

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For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN MANAGEMENT ACCOUNTING

leading to the Master of Commerce or the Honours Master of Arts or Commerce.

(i) Master of Commerce

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For further details, see Course Requirements below.
### POSTGRADUATE PROGRAM IN MANAGEMENT ACCOUNTING (cont’d).
leading to the Master of Commerce or the Honours Master of Arts or Commerce.

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For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN FINANCE
leading to the Master of Commerce or the Honours Master of Arts or Commerce.

(i) Master of Commerce

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plus approved electives

Note: With the Approval of the Head of Department students may substitute other relevant subjects for ACCY921 and ACCY922.

(ii) Honours Master of Arts or Commerce

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For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN INFORMATION SYSTEMS IN ACCOUNTING
leading to the Master of Commerce or the Honours Master of Arts or Commerce.

(i) Master of Commerce

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<td>ACCY973</td>
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<td>ACCY974</td>
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<tr>
<td>ACCY983</td>
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</tbody>
</table>

plus approved electives
## POSTGRADUATE PROGRAM IN INFORMATION SYSTEMS IN ACCOUNTING (cont’d.)
leading to the Master of Commerce or the Honours Master of Arts or Commerce.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>(ii) Honours Master of Arts or Commerce</td>
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<tr>
<td>Compulsory</td>
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<tr>
<td>ACCY903</td>
<td>Accounting Theory</td>
<td>6</td>
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<td>ACCY904</td>
<td>Financial Accounting</td>
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<tr>
<td>ACCY913</td>
<td>Management Accounting</td>
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<tr>
<td>ACCY993</td>
<td>Research Essay</td>
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<tr>
<td>ACCY914</td>
<td>Management Planning And Control Systems</td>
<td>6</td>
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<tr>
<td>ACCY931</td>
<td>Advanced Decision Support Systems</td>
<td>6</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>ACCY936</td>
<td>Management and Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>ACCY995</td>
<td>Research Project</td>
<td>24</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

## POSTGRADUATE PROGRAM IN CONTROLLERSHIP
leading to the Master of Commerce or the Honours Master of Arts or Commerce.

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<thead>
<tr>
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<tbody>
<tr>
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<td>ACCY904</td>
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<td>ACCY906</td>
<td>Issues in Financial Accounting</td>
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<td>ACCY924</td>
<td>Corporate Financial Information Analysis</td>
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<tr>
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<td>Studies in Information Systems in Accounting</td>
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<tr>
<td>ACCY944</td>
<td>Issues in Auditing</td>
<td>6</td>
</tr>
<tr>
<td>ACCY973</td>
<td>History of Accounting Thought</td>
<td>6</td>
</tr>
<tr>
<td>ACCY974</td>
<td>Accounting Regulation</td>
<td>6</td>
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<tr>
<td>ACCY983</td>
<td>Studies in Government Accounting</td>
<td>6</td>
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<td>plus approved electives</td>
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</tbody>
</table>

(ii) Honours Master of Arts or Commerce

| Compulsory |                                        |               |
| ACCY903 | Accounting Theory                       | 6             |
| ACCY904 | Financial Accounting                    | 6             |
| ACCY913 | Management Accounting                   | 6             |
| ACCY993 | Research Essay                          | 12            |
| Electives, at least 12 credit points from |                        |               |
| ACCY907 | Empirical Research Methods in Accounting | 6       |
| ACCY914 | Management Planning and Control Systems | 6             |
| ACCY924 | Corporate Financial Information Analysis | 6       |
| ACCY933 | Studies in Information Systems in Accounting | 6       |
| ACCY973 | History of Accounting Thought           | 6             |
| ACCY995 | Research Project                        | 24            |

For further details, see Course Requirements below.

## POSTGRADUATE PROGRAM IN AUDITING
leading to the Master of Commerce or the Honours Master of Arts or Commerce.

<table>
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<tr>
<th>Number</th>
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<td>ACCY933</td>
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<tr>
<td>ACCY943</td>
<td>Auditing and Accounting Information Systems</td>
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<td>Electives, at least 2 from</td>
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<td>ACCY907</td>
<td>Empirical Research Methods in Accounting</td>
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<td>ACCY914</td>
<td>Management Planning and Control Systems</td>
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<td>ACCY968</td>
<td>Insolvencies</td>
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<tr>
<td>ACCY983</td>
<td>Studies in Government Accounting</td>
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<tr>
<td>plus approved electives</td>
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</table>
## Postgraduate Program in Auditing (Cont’d)

leading to the Master of Commerce or the Honours Master of Arts or Commerce.

<table>
<thead>
<tr>
<th>Number</th>
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<tr>
<td>ii)</td>
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<td>ACCY913 Management Accounting</td>
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<td>ACCY993 Research Essay</td>
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<td>Electives, at least 12 credit points from</td>
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<tr>
<td></td>
<td>ACCY924 Corporate Financial Information Analysis</td>
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<td>ACCY933 Studies in Information Systems in Accounting</td>
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<tr>
<td></td>
<td>ACCY943 Auditing and Accounting Information Systems</td>
<td>6</td>
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<td></td>
<td>ACCY944 Issues in Auditing</td>
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<tr>
<td></td>
<td>ACCY974 Accounting Regulation</td>
<td>6</td>
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<td></td>
<td>ACCY995 Research Project</td>
<td>24</td>
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</tbody>
</table>

For further information, 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>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>ACCY985</td>
<td>Special Topic in Accounting - A</td>
<td>6</td>
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<tr>
<td>ACCY986</td>
<td>Special Topic in Accounting - B</td>
<td>6</td>
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<tr>
<td>ACCY994</td>
<td>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 for this degree enrol in ACCY996.

2. **Honours Master of Arts**

(a) Candidates who have completed at 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 least 96 credit points of which subjects aggregating not less than 48 credit points may be selected from those offered by other Departments, where approval is given by the Head of the Department of Accounting and Finance.

(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 specialisation Schedule.

3. **Honours Master of Commerce**

(a1) Candidates who have completed the requirements for the award of the BCom(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 MCom(Hons) degree by completing at least 48 credit points.

(i) Thesis (48 credit points);

(ii) Project (12 credit points, Accounting and Finance; 16 credit points, Economics) plus course work to aggregate not less than 48 credit points;

(iii) Research report (24 credit points) and course work aggregating not less than 24 credit points;

(iv) Course work aggregating not less than 48 credit points.

(a2) Subjects are to be selected from 900-level subjects offered by the Department of Accounting and Finance as set out in the Schedule of Graduate Programs.

Subjects aggregating not more than 12 credit points may be selected from those offered by other Departments, where approval is given by the Department offering the subject and the Head of the Department of Accounting and Finance.

(a3) A candidate may not include for this degree subjects similar in content to subjects included in the honours part of the undergraduate course.

(b) 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.

(c) 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.

(d) 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 or Finance specialisation for the BCom degree, with the opportunity of further in-depth study of advanced topics in accounting or finance. This degree should be particularly suitable for students wishing to specialise in professional areas, or wishing to complete graduate specialisations...
approved by the Australian Society of CPA's. The degree of 48 credit points may be studied full-time over one year, or may be studied part-time. Subjects are to be select-ed from the Schedule of Graduate Subjects in accordance with the postgraduate programs. Entry requires a BCom degree with a specialisation in Accountancy or Finance, or equivalent degree.

Candidates who do not have a specialisation in Accountancy and wish to complete an accounting program in their degree may be permitted to study for the degree provided that they include Financial Accounting III and Management Accounting III (or, in special situations, other undergraduate accountancy subjects); thus the total credit points required for these candidates is 72.

Members of not less than five years standing of the Australian Society of Accountants 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- 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 or 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- 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 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 readings will be selected from the Department of Accounting and Finance.

Subject Co-ordinators
Where a subject co-ordinator has not been specified, details will be available at a later date.

ACCY901 Accounting for Managers
Autumn and Spring session; 6 credit points
The interpretation and utilisation of the major types of reports and analyses prepared by accountants for management decision making.
Co-ordinator: Ms J F Moore

ACCY903 Accounting Theory
Autumn session; 6 credit points
Co-ordinator: Professor M J R Galfkin

ACCY904 Financial Accounting
Autumn session; 6 credit points
The objectives and functions of financial reporting, including periodic profit measurement. Evaluation of accounting measurement methods including historical cost, general price level, current value and relative price change models. Communication in accounting reports.
Co-ordinator: Mr R Perrin

ACCY905 International Accounting
Autumn session; 6 credit points
Co-ordinator: Mr G Gniewosz

ACCY906 Issues in Financial Accounting
Spring session; 6 credit points
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.
Co-ordinator: Mr H W Collier

ACCY907 Empirical Research Methods in Accounting
Autumn session; 6 credit points
The subject provides an overview of the ways accounting researchers identify, formulate and investigate accounting and information systems issues. This includes a study of the criteria adopted to select research projects and of the relationship between research and accounting and information systems issues such as experimental design, validity threats, measurement problems, and statistical analysis will also be considered. Selected published accounting research will be used to illustrate the method of empirical research in accountancy and information systems.
Co-ordinator: Professor D Johnstone

ACCY908 Applied Financial Accounting
Spring session; 6 credit points
An in-depth examination of external financial reporting addressing both practice reporting issues and resultant economic implications. Specific applications will be presented in relevant case studies based on realistic business situations drawn from published financial statements and press reports.
Co-ordinator: Mrs A Abraham

ACCY909 Comparative Accounting Systems
Spring session; 6 credit points
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.
Co-ordinator: Mr G Gniewosz

ACCY 910 Issues in International Accounting
Spring session; 6 credit points
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.
Co-ordinator: Mr G Gniewosz

ACCY 913 Management Accounting
Autumn session; 6 credit points
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
explore areas including market efficiency
decision-making, portfolio theory, capital
in the modern theory of optimal investment.
The subject examines some advanced topics
investment evaluation.
application of capital asset pricing models in
decision analysis and a study of the
The incorporation of risk into investment
conditions and in different market settings.
ACCY923 Investment Management
Spring session; 6 credit points
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 (CAPM, APT,
and Factor models) and securities, bond,
analysis, portfolio management and
performance evaluation. A special emphasis
will be given to exploring the properties of
these derivative securities which are
commonly encountered in practice. The
subject will not only provide a theoretical
framework within which all derivative
securities can be valued and hedged, but
will also examine the way they are traded in
more detail.
Co-ordinator: Dr S C Lodh

ACCY924 Corporate Financial
Information Analysis
Autumn session; 6 credit points
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.
Co-ordinator: Associate Professor M McCrae

ACCY925 Banking Theory and
Practice
Autumn session; 6 credit points
This subject focuses on accounting aspects
of the practices and operations of banks and
other financial institutions in Australia.
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.
Co-ordinator: Mr H Deo

ACCY926 Studies in Business
Finance
Autumn session; 6 credit points
Contemporary business finance theory, inc-
cluding option pricing theory, arbitrage
pricing models, bond swapping and bond
immunisation.
Co-ordinator: Associate Professor D Edelman

ACCY927 Small Business Finance
Spring session; 6 credit points
Planning the structure and finances of a
small business from establishment of the
small business through to flotation. The
choice of the structure of business and an
examination of alternative sources of finan-
cce, requirements of financiers, improved
utilisation of existing resources, and relevant
costs in financing.
Not to count with ACCY942.
Co-ordinator: D R B Williams

ACCY928 Multinational Financial
Management
Spring session; 6 credit points
The role of multinationals in international
investment; aspects of the international
monetary system; Euromarkets; foreign
exchange markets; internal and external
exposure management techniques; curren-
cy futures and options; swaps; financing
MNC investment; MNC investment
decision making; political risk analysis; inter-
national taxation.
Co-ordinator: Mr G Gnieiewosz

ACCY931 Advanced Decision
Support Systems
Spring session; 6 credit points
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.
Co-ordinator: Mr A Gardiner

ACCY932 Studies in Information
Systems in Accounting
Autumn session; 6 credit points
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.
Co-ordinator: Ms M A Kaidonis

ACCY936 Management and
Information Systems
Spring session; 6 credit points
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 session; 6 credit points
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.
Co-ordinator: Mr G M E Mickhai

ACCY944 Issues in Auditing
Spring session; 6 credit points
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, external audit function and
governmental and professional
sector auditing.
Co-ordinator: Mr A I Chowdhury

ACCY961 Professional Practice
Accounting
6 credit points
Statements of Accounting Standards and
Statements of Accounting Practice. Accou-

ACCY962 Professional Practice
Auditing and EDP
6 credit points
Statements of Auditing Standards and
Statements of Auditing Practice. EDP
Systems and Controls.
ACCY963 Professional Practice - Taxation
6 credit points

ACCY968 Insolvencies
Spring session; 6 credit points
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.
Co-ordinator: Ms C Spasich

ACCY973 History of Accounting Thought
Autumn session; 6 credit points
Co-ordinator: Dr K A Cooper

ACCY974 Accounting Regulation
Spring session; 6 credit points
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.
Co-ordinator: Ms J F Moore

ACCY983 Studies in Government Accounting
Spring session; 6 credit points
A detailed examination of selected areas in federal, state, regional or local government accounting.
Co-ordinator: Associate Professor W N Funnell

ACCY985 Special Topic in Accounting - A
6 credit points

ACCY986 Special Topic in Accounting - B
6 credit points

ACCY987 Special Topic in Finance
6 credit points
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.
Co-ordinator: Associate Professor M McCrae

ACCY993 Research Essay
12 credit points

ACCY994 Project
12 credit points

ACCY995 Research Project
24 credit points

ACCY996 Thesis
48 credit points per year
Information may be obtained from the Head of Department regarding ACCY985, ACCY986, ACCY993, ACCY994, ACCY995 and ACCY996.
COURSES OFFERED

The Business School was established to manage and co-ordinate the MBA and related executive management and graduate programs offered by the Faculty of Commerce. The School is structured to enable it to draw on the strengths of the Faculty’s teaching departments in Accountancy, Finance, Business Systems, Economics, Marketing and Management, and to co-ordinate the Faculty’s provision of multi-disciplinary, fee paying courses.

The Business School also co-ordinates the Total Quality Management programs on offer from the Faculties of Commerce, Engineering and Informatics.

The following postgraduate courses are available:

1. Graduate Certificate in Management
2. Graduate Diploma in Commerce (Management)
3. Master of Business Administration
4. Master of Logistics and Operations Management
5. Graduate Certificate in Total Quality Management
6. Graduate Diploma in Total Quality Management
7. Honours Master of Total Quality Management

For descriptions of subjects listed in the Business School’s schedule of programs, please refer to the relevant Departmental or Cross-Faculty sections of this Calendar.

SCHEDULE OF PROGRAMS

GRADUATE CERTIFICATE IN MANAGEMENT

The objective of the Graduate Certificate is to provide an introductory study of the concepts of management and management practice. Admission to the Graduate Certificate requires Bachelor qualifications and relevant work experience, although in special circumstances an applicant holding other academic or professional qualifications, and with relevant work experience, may be admitted as a candidate. Students qualifying for the Graduate Certificate in Management who have achieved an average of a credit grade or better over all subjects may be admitted to the Graduate Diploma program. They will receive a credit of up to 24CP depending upon the particular program of study undertaken.

The Certificate is deliberately structured to provide different approved programs of study, including off-campus programs for specific professional groups. The current schedules are available:

Schedule 1: The General On-campus Program
Schedule 2: The NSW Police Academy Program (Off-campus Study)
Schedule 3: The TAFE Systems/University of Wollongong Program (Off-campus Study)

Schedule 1: The General On-Campus Program

This award is equivalent to 6 months full-time study. Students complete 24CP of study selected from the Graduate Diploma in Commerce (Management) schedule.

Schedule 2: The NSW Police Academy Program

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<tr>
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<th>Subject</th>
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<tbody>
<tr>
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<td>6</td>
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<tr>
<td>MGMT802</td>
<td>Managing Service and Program Delivery</td>
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<td>MGMT803</td>
<td>Information and Finance Management</td>
<td>6</td>
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<td>MGMT804</td>
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<tr>
<td>MGMT899</td>
<td>Workbased Project</td>
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</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.

Schedule 3: The TAFE Systems/University Of Wollongong Program

<table>
<thead>
<tr>
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<tr>
<td>MGMT811</td>
<td>Management Skills and Concepts</td>
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<td>MGMT812</td>
<td>Managing Operations and Change</td>
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<td>MGMT813</td>
<td>Managing People</td>
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<td>MGMT814</td>
<td>Managing Finance and Information</td>
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<td>MGMT899</td>
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Note: Admission to this program and its subjects is restricted to students enrolled in the TAFE Systems/University of Wollongong Program. This is a full fee, off-campus program of study.

Co-ordinator: Dr. Robert Jones, MBA Director
GRADUATE DIPLOMA IN COMMERCE (Management)

Entry to this program is based on graduate qualifications and relevant work experience. Students completing the Graduate Diploma in Commerce (Management) with better than credit average results will be eligible for admission to the MBA program. The Graduate Diploma in Commerce (Management) is a one year full-time or two year part-time course comprising eight core subjects.* Subjects focus on the fundamental issues that relate to essential managerial understandings and skills in that area. This is a 48CP course.

<table>
<thead>
<tr>
<th>Number</th>
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<tr>
<td>Core subjects**</td>
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<tr>
<td>ACCY901 Accounting for Managers</td>
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<tr>
<td>ECON932 Economics Analysis of the Business Environment</td>
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<td>BUSS903 Information Systems for Managers</td>
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<tr>
<td>MGMT905 Business Ethics and Law</td>
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<td>MGMT906 Managing People at Work</td>
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<tr>
<td>MGMT907 Managerial Skills Workshop</td>
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<tr>
<td>MARK922 Marketing Management</td>
<td>6</td>
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<tr>
<td>MGMT979 Financial Decision Making</td>
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</table>

*These subjects are only available to students enrolled in the MBA/Graduate Diploma in Commerce (Management) programs.

**Core subjects are compulsory unless judged by the relevant Departmental Head that a similar subject has been successfully completed at a similar level of education, in which case students will be directed to an alternative subject.

Co-ordinator: Dr. Robert Jones, MBA Director

MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration (MBA) is a two year full-time or four year part-time course. Students will be required to complete the core elements of study, as for the Graduate Diploma in Commerce (Management), in the first half of the MBA. These subjects will serve as an introduction to the subsequent specialisation subjects. A number of specialisation options are available in the second year of the two year full-time program, representing the final 48CP of the 96CP MBA program. Subjects offered depend on student demand and available resources. The MBA is a 96CP course awarded at Pass or Merit level.

Students intending to enrol in the Master of Business Administration, please note:
• Some subjects require prerequisites or are subject to entry requirements. Refer to individual subject descriptions in this Calendar.
• Enrolment in some subjects may require the approval of the MBA Director.
• Not all subjects and specialisations are offered every year.

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<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tr>
<td>Core subjects* - 48CP, as specified for the Graduate Diploma in Commerce (Management)</td>
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<td>ECON932 Economics Analysis of the Business Environment</td>
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<td>BUSS903** Information Systems for Managers</td>
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<td>MGMT905 Business Ethics and Law</td>
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<td>MGMT979 Financial Decision Making</td>
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*Core subjects are compulsory unless judged by the relevant Departmental Head that a similar subject has been successfully completed at a similar level of education, in which case students will be directed to an alternative subject. These subjects are only available to students enrolled in the MBA/Graduate Diploma in Commerce (Management) programs.

**Students who study the specialisation in Systems Development do not enrol for BUSS903.

Specialisations - 42CP of approved specialisation studies from one of the following schedules:

1. General Management
2. Marketing
3. Human Resource Management
4. Total Quality Management
5. Public Sector Management
6. International Business
7. Operations Management
8. Strategic Management
9. Technology and Innovation Management
10. Finance
11. Industrial Relations
12. Business Economics
13. Systems Management
14. Systems Development
15. Legal Studies

Plus 6CP of integration studies

MGMT931 Strategic Planning and Policy 6

or

MGMT976 Competitive Analysis and Strategy 6

Co-ordinator: Dr. Robert Jones, MBA Director
MBA SPECIALISATION SCHEDULES

Most specialisation schedules include the option of a project within the prescribed 42CP.

### SCHEDULE 1: GENERAL MANAGEMENT

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tr>
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<tr>
<td></td>
<td>42CP of MGMT900 subjects (not MBA core subjects)</td>
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<td>MGMT931 Strategic Planning and Policy</td>
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<td>Project Option</td>
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<tr>
<td></td>
<td>24CP of project studies either</td>
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<tr>
<td></td>
<td>MGMT980 Business Research Methods</td>
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<td>MGMT982 Project</td>
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<tr>
<td></td>
<td>or</td>
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<td></td>
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<td>MArk957 International Marketing Strategy</td>
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<td>MGMT967 Quantitative Methods</td>
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<td>MGMT931 Strategic Planning and Policy</td>
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<tr>
<td></td>
<td>and</td>
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<td>MArk939 Contemporary Issues in International Marketing</td>
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<td>MArk956 New Product Marketing</td>
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<td>MArk935 Marketing Planning and Strategy</td>
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<td>or</td>
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### SCHEDULE 3: HUMAN RESOURCE MANAGEMENT

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<td>plus either</td>
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<td></td>
<td>ECON954 Industrial Relations in Australia</td>
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<td>or ECON975 Advanced Industrial Relations Processes</td>
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<td>MGMT915 Management of Change</td>
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<td>MGMT918 Organisational Processes</td>
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<td>MGMT924 Organisations and their Environments</td>
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<td>MGMT947 Quality Management</td>
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<td>MGMT963 Management of Occupational Health and Safety</td>
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*Not on offer in 1997.*
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### SCHEDULE 4: TOTAL QUALITY MANAGEMENT

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<td>TQM911 Introduction to Quality Concepts</td>
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<td>MGMT919 Human Resource Strategies and TQM</td>
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<td>MGMT920 Organisational Analysis</td>
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<td>MGMT924 Organisations and their Environments</td>
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<td>MARK970 Contemporary Issues in Service Quality</td>
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### SCHEDULE 5: PUBLIC SECTOR MANAGEMENT

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<td>MGMT927 Australian Government Administration</td>
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<td>MGMT928 Public Policy and Administration</td>
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<td>MGMT919 Human Resource Strategies and TQM</td>
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<td>MGMT916 Management and Employment Relations</td>
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<td>MGMT920 Organisational Analysis</td>
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<td>MGMT915 Management of Change</td>
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<td>MGMT963 Management of Occupational Health &amp; Safety</td>
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<td>MGMT948 Project in Regional Administration</td>
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<td>ACCY983 Studies in Government Accounting</td>
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<td>ECON903 Public Finance</td>
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### SCHEDULE 6: INTERNATIONAL BUSINESS

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<td>MARK957 International Marketing Strategy</td>
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<td>MGMT961 International Business Management</td>
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<td>ACCY928 Multinational Financial Management</td>
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<td>MGMT976 Competitive Strategy and Analysis</td>
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<td>MGMT976 Cross Cultural Management</td>
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<td>ECON924 International Economic Relations - B</td>
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### SCHEDULE 6: INTERNATIONAL BUSINESS (cont’d)

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<td>MARK939</td>
<td>Contemporary Issues in International Marketing</td>
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<td>Any 900-level MGMT subject(s) which are not core subject(s) for the MBA, or previously studied.</td>
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*Any 6CP postgraduate subject approved by the Head of the relevant Department.*

**Project Option**
24CP of project studies either

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>MGMT980 Business Research Methods</td>
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### SCHEDULE 7: OPERATIONS MANAGEMENT

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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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**Coursework Option**
24CP of coursework from

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<tr>
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<td>MGMT933 Management of Process Innovation I</td>
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<td>MGMT976 Competitive Strategy and Analysis</td>
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plus one elective postgraduate subject from any of the Commerce Schedules, as approved by the Head of the relevant Department.

**Project Option**
24CP of project studies either

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<tbody>
<tr>
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<tr>
<td>MGMT982 Project</td>
<td>18</td>
</tr>
<tr>
<td>MGMT981 MBA Project</td>
<td>24</td>
</tr>
</tbody>
</table>

### SCHEDULE 8: STRATEGIC MANAGEMENT

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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</tr>
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<tbody>
<tr>
<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MGMT915</td>
<td>Management of Change</td>
<td>6</td>
</tr>
<tr>
<td>MGMT931</td>
<td>Strategic Planning and Policy</td>
<td>6</td>
</tr>
<tr>
<td>MGMT967</td>
<td>Quantitative Methods</td>
<td>6</td>
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</tbody>
</table>

**Coursework Option**
24CP of coursework from the 900-level MGMT Schedule, except core subjects for the MBA

**Project Option**
24CP of project studies either

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT980 Business Research Methods</td>
<td>6</td>
</tr>
<tr>
<td>MGMT982 Project</td>
<td>18</td>
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<tr>
<td>MGMT981 MBA Project</td>
<td>24</td>
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</table>

### SCHEDULE 9: TECHNOLOGY AND INNOVATION MANAGEMENT

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT931</td>
<td>Strategic Planning and Policy</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>BUS9952</td>
<td>Information Systems Management</td>
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</table>

**Coursework Option**
24CP of coursework from

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>MGMT915 Management of Change</td>
<td>6</td>
</tr>
<tr>
<td>MGMT954 Special Topic in Management A</td>
<td>6</td>
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</table>

plus 12CP from any non-core MGMT subjects listed in MBA Specialisation Schedules 3, 4, 7 or 13

**Project Option**
24CP of project study either

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT980 Business Research Methods</td>
<td>6</td>
</tr>
<tr>
<td>MGMT982 Project</td>
<td>18</td>
</tr>
<tr>
<td>MGMT981 MBA Project</td>
<td>24</td>
</tr>
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</table>
### SCHEDULE 10: FINANCE

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td></td>
<td><strong>Compulsory Subjects</strong></td>
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</tr>
<tr>
<td>ACCY923</td>
<td>Investment Management</td>
<td>6</td>
</tr>
<tr>
<td>ACCY926</td>
<td>Studies in Business Finance</td>
<td>6</td>
</tr>
<tr>
<td>ECON934</td>
<td>Advanced Financial Economics</td>
<td>8</td>
</tr>
<tr>
<td>ACCY921</td>
<td>Managerial Finance</td>
<td>6</td>
</tr>
<tr>
<td>MGMT931</td>
<td>Strategic Planning and Policy</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>and 18CP of coursework from</strong></td>
<td></td>
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<tr>
<td>ACCY922</td>
<td>Capital Investment</td>
<td>6</td>
</tr>
<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>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>ECON902</td>
<td>Advanced International Monetary Economics</td>
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</tr>
<tr>
<td></td>
<td>Note: A project option is available with permission from the Head of Accounting and Finance or the designated Departmental nominee.</td>
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</table>

### SCHEDULE 11: INDUSTRIAL RELATIONS

<table>
<thead>
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<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td></td>
<td><strong>Compulsory Subjects</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>12 CP from either</strong></td>
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</tr>
<tr>
<td>ECON954</td>
<td>Industrial Relations in Australia’</td>
<td>6</td>
</tr>
<tr>
<td>or ECON973</td>
<td>Employers and Industrial Relations - A</td>
<td>6</td>
</tr>
<tr>
<td>or ECON975</td>
<td>Advanced Industrial Relations Processes</td>
<td>6</td>
</tr>
<tr>
<td>MGMT931</td>
<td>Strategic Planning and Policy</td>
<td>6</td>
</tr>
<tr>
<td>or ECON916</td>
<td>Management and Employment Relations</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Coursework Option</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>24CP of coursework from either</strong></td>
<td></td>
</tr>
<tr>
<td>MGMT916</td>
<td>Management and Employment Relations</td>
<td>6</td>
</tr>
<tr>
<td>or ECON953</td>
<td>Human Resource Management</td>
<td>6</td>
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<tr>
<td>or 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>ECON956</td>
<td>Advanced Industrial Relations Processes</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>
<tr>
<td>or ECON992</td>
<td>Research Report</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>or one 6CP subject from MBA Specialisation Schedule 3</td>
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### SCHEDULE 12: BUSINESS ECONOMICS

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<thead>
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<th>Number</th>
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<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>ECON907</td>
<td>Cost-Benefit Analysis</td>
<td>8</td>
</tr>
<tr>
<td>ECON936</td>
<td>Graduate Macroeconomics</td>
<td>8</td>
</tr>
<tr>
<td>ECON937</td>
<td>Graduate Microeconomics</td>
<td>8</td>
</tr>
<tr>
<td>MGMT931</td>
<td>Strategic Planning and Policy</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Coursework Option</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>24CP of coursework from</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>plus 12CP from any non-core MGMT subjects listed in MBA Specialisation Schedules 3, 4, 7 or 13</td>
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<tr>
<td>ECON909</td>
<td>Econometric Theory</td>
<td>8</td>
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<tr>
<td>or any 2 of ECON913</td>
<td>Industrial Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON916</td>
<td>Microeconomic Analysis</td>
<td>8</td>
</tr>
<tr>
<td>ECON924</td>
<td>International Economic Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON933</td>
<td>Game Theory</td>
<td>8</td>
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<td>ECON934</td>
<td>Advanced Financial Economics</td>
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<td>ECON935</td>
<td>Advanced Managerial Economics and Operations Research</td>
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<tr>
<td>ECON938</td>
<td>Environmental Economics</td>
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</tr>
<tr>
<td>ECON944</td>
<td>Advanced Topics in Economics D</td>
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</tr>
<tr>
<td>or any postgraduate subject approved by the Head of the relevant Department, or</td>
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<td></td>
</tr>
<tr>
<td></td>
<td><strong>Project Option</strong></td>
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</tr>
<tr>
<td>ECON992</td>
<td>Research Report</td>
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</table>

*Not on offer in 1997*
### Schedule 13: Systems Management

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td></td>
<td>Compulsory Coursework</td>
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<tr>
<td>BUS945</td>
<td>Information Systems Project</td>
<td>12</td>
</tr>
<tr>
<td>BUS952</td>
<td>Information Systems Management</td>
<td>6</td>
</tr>
<tr>
<td>BUS953</td>
<td>Management of Systems Development</td>
<td>6</td>
</tr>
<tr>
<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
<td>6</td>
</tr>
<tr>
<td>BUS950</td>
<td>Programming for Managers</td>
<td>6</td>
</tr>
<tr>
<td>BUS931</td>
<td>Database for Managers</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Plus a 6CP 900-level BUSS subject selected from Schedule 3 in the Business Systems Calendar section.</strong></td>
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</table>

### Schedule 14: Systems Development

<table>
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<tr>
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<th>Subject</th>
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<tbody>
<tr>
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<tr>
<td>BUS945</td>
<td>Information Systems Project</td>
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<tr>
<td>BUS952</td>
<td>Information Systems Management</td>
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<tr>
<td>BUS953</td>
<td>Management of Systems Development</td>
<td>6</td>
</tr>
<tr>
<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
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</tr>
<tr>
<td>BUS950</td>
<td>Systems Development Methodologies</td>
<td>6</td>
</tr>
<tr>
<td>BUS951</td>
<td>Critical Issues in Systems Development</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Plus a 6CP 900-level BUSS subjects selected from Schedule 3 in the Business Systems Calendar section.</strong></td>
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</table>

### Schedule 15: Legal Studies

<table>
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<tbody>
<tr>
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</tr>
<tr>
<td>LAW810</td>
<td>Law in Society</td>
<td>8</td>
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<tr>
<td>LAW811</td>
<td>Law of Contracts</td>
<td>8</td>
</tr>
<tr>
<td>MGMT931</td>
<td>Strategic Planning and Policy</td>
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</tr>
<tr>
<td></td>
<td><strong>Coursework Option</strong></td>
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<td></td>
<td><strong>30CP of coursework from</strong></td>
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</tr>
<tr>
<td>LAW951</td>
<td>Taxation Policy and Practice</td>
<td>6</td>
</tr>
<tr>
<td>LAW953</td>
<td>Studies in Taxation</td>
<td>6</td>
</tr>
<tr>
<td>LAW964</td>
<td>Studies in Business Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW965</td>
<td>Studies in Administrative Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW966</td>
<td>Studies in Industrial Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW967</td>
<td>Studies in Trade Practices and Consumer Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW988</td>
<td>Special Topic in Law</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Or any 6CP postgraduate subject approved by the Dean of the Faculty of Law.</strong></td>
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<tr>
<td></td>
<td><strong>Project Option</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>6CP selected from one of</strong></td>
<td></td>
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<tr>
<td>LAW951</td>
<td>Taxation Policy and Practice</td>
<td>6</td>
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<tr>
<td>LAW953</td>
<td>Studies in Taxation</td>
<td>6</td>
</tr>
<tr>
<td>LAW964</td>
<td>Studies in Business Law</td>
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</tr>
<tr>
<td>LAW965</td>
<td>Studies in Administrative Law</td>
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<tr>
<td>LAW966</td>
<td>Studies in Industrial Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW967</td>
<td>Studies in Trade Practices and Consumer Law</td>
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</tr>
<tr>
<td>LAW988</td>
<td>Special Topic in Law</td>
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</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>MGMT980</td>
<td>Business Research Methods</td>
<td>6</td>
</tr>
<tr>
<td>MGMT982</td>
<td>Project</td>
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</tr>
<tr>
<td>or MGMT981</td>
<td>MBA Project</td>
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</tr>
</tbody>
</table>

### Master of Logistics and Operations Management

The objective of the Master of Logistics and Operations Management 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 off-campus program of study for senior managers within BHP.

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></td>
<td>Compulsory Subjects</td>
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</tr>
<tr>
<td>MGMT951</td>
<td>Manufacturing Management 1</td>
<td>6</td>
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<tr>
<td>MGMT952</td>
<td>Productions and Operations Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT958</td>
<td>Manufacturing Management 2</td>
<td>6</td>
</tr>
<tr>
<td>MGMT959</td>
<td>Transport Logistics Management</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Plus 24CP of coursework selected from</strong></td>
<td></td>
</tr>
<tr>
<td>ECON935</td>
<td>Advanced Managerial Economics and Operations Research</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>MGMT950</td>
<td>Inventory Management</td>
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</table>

(cont’d)
MASTER OF LOGISTICS AND OPERATIONS MANAGEMENT (cont’d)

<table>
<thead>
<tr>
<th>Number</th>
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</thead>
<tbody>
<tr>
<td>MGMT797</td>
<td>Financial Decision Making</td>
<td>6</td>
</tr>
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</table>

Note: Admission to this program is restricted to students enrolled in the BHP/University of Wollongong Master of Logistics and Operations Management Program. This is a full fee, off-campus program of study.

Co-ordinator: Mr John Flanagan

COURSE REQUIREMENTS

1. MASTER OF BUSINESS ADMINISTRATION

This degree is offered to allow practising managers to broaden their understanding of key managerial processes including skills, concepts and disciplines. This is achieved by the first year of the full-time program (or part-time equivalent) offering the core issues of managerial skills and concepts, followed by the second year of the full-time program (or part-time equivalent) enabling either a deliberate 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 satisfy the criteria set out above in 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.

Selection for admission to the degree will be on the basis of an appropriate balance between academic qualifications, managerial experience and career intent. In addition to the requirement of the standard University application form, candidates are required to submit a detailed statement with supporting documentation of their previous work/managerial experience and a statement of their career strategy. A typical applicant will be expected to have a recognised University degree, 5 years full-time work experience (or 2 years full-time work experience at a managerial level), and be committed to a career in management. Applicants may be required to demonstrate an adequate command of English in a commercial context.

The MBA is intended to be completed in 3-4 sessions full-time or 3-4 years part-time. It is expected that the 8 core subjects will normally be studied first, followed by the specialisation selected. Within each specialisation there is the option of 24 credit points of project studies. The project must be within the area of specialisation and wherever possible participants are encouraged to relate their studies to issues or problems connected with their current working environment. The degree concludes with the study of a capstone subject which integrates the ideas of the program, and is normally studied in the final session of the program or before the commencement of the project.

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 MBA Director from any such subjects, but will be required to substitute another subject nominated by the relevant Departmental Head 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/Graduate Diploma/Certificate and MCom programs.

2. GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT)

In accordance with the General Rules for 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, an applicant holding other academic or professional qualifications and with relevant work experience of not less than five years may be admitted as a candidate. The objective of the Graduate Diploma 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.

Selection into the program will be on the basis of a balance between academic qualifications, managerial experience and career intent. Where an applicant for the MBA is otherwise qualified except for meeting the full work experience requirements for the degree, they may be admitted to the Graduate Diploma as a way of establishing their appropriateness and readiness for full MBA study. The core subjects of the Graduate Diploma constitute the first year of study in the MBA, and students who have achieved an average of Credit grade or higher over all subjects may be admitted to the full MBA program, with a credit of up to 48 credit points. On satisfactory completion of the MBA, they will not be entitled to receive the Graduate Diploma in Commerce (Management). The Graduate Diploma is intended to be completed over 2 sessions by full-time study, or in 4 sessions by part-time study. Applicants may be required to have adequate command of English in a commercial context.

3. GRADUATE CERTIFICATE IN MANAGEMENT

In accordance with the general rules for graduate admission, candidates for the Graduate Certificate in Management must have been admitted to the degree of Bachelor in the University or other approved institution and possess relevant work experience. In special circumstances an applicant holding other academic or professional qualifications and with relevant work experience may be admitted as a candidate.

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 (eg. the NSW Police Service) or specified professional groups (eg. Public Sector managers). There is an on-campus program of study; each approved program is discrete, and when successfully completed will lead to the award of the Graduate Certificate in Management.

The Graduate Certificate is intended to be completed in one session of full-time study or in two sessions by part-time study. Students qualifying for the Graduate Certificate in Management who have achieved an average of a credit grade or better over all subjects, may be admitted to the Graduate Diploma program. They will receive a credit of up to 24 credit points, depending upon the particular program of study undertaken. On successful completion of the Graduate Diploma in Commerce (Management) they will not be entitled to receive a Graduate Certificate in Management. Applicants for the Graduate Certificate may be required to demonstrate an adequate command of English in a commercial context.

EXTERNAL COURSES

The Graduate Diploma in Commerce (Management) and the Graduate Certificate in Management are available externally through PAGE, Wollongong Online and through The University Centre, Sydney.
POSTGRADUATE PROGRAM IN TOTAL QUALITY MANAGEMENT

This program provides the Graduate Certificate in Total Quality Management, Graduate Diploma in Total Quality Management and Honours Master of Total Quality Management.

For descriptions of subjects listed in the TQM schedule of programs, please refer to the relevant departmental or Cross-Faculty sections of this Calendar.

SCHEDULE OF PROGRAMS

GRADUATE CERTIFICATE IN TOTAL QUALITY MANAGEMENT

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>TQM911</td>
<td>Introduction to Quality Concepts</td>
<td>6</td>
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<tr>
<td>STAT949</td>
<td>Statistical Thinking</td>
<td>6</td>
</tr>
<tr>
<td>ENGG921</td>
<td>Engineering Data Reduction and Error Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MECH961</td>
<td>Quality Improvement Systems and Implementation</td>
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<tr>
<td>MGMT906</td>
<td>Managing People at Work</td>
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<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
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Co-ordinator: Associate Professor G John Montagner

GRADUATE DIPLOMA IN TOTAL QUALITY MANAGEMENT

<table>
<thead>
<tr>
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<tr>
<td>STAT941</td>
<td>Statistical Quality Control 1</td>
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<td>ENGG922</td>
<td>Statistical Process Control in Manufacturing and Service Industries</td>
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<td>MECH960</td>
<td>Industrial Quality Management</td>
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<td>MGMT915</td>
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<tr>
<td>TQM912</td>
<td>An Overview of Quality Management</td>
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Co-ordinator: Associate Professor G John Montagner

HONOURS MASTER IN TOTAL QUALITY MANAGEMENT

<table>
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<tr>
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<td>MECH967</td>
<td>International Quality Techniques</td>
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<tr>
<td>STAT942</td>
<td>Design and Analysis for Quality Control</td>
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<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
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<tr>
<td>MARK970</td>
<td>Contemporary Issues in Services Quality</td>
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<td>MECH965</td>
<td>Quality in Engineering Design</td>
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<tr>
<td>TQM913</td>
<td>Thesis in Quality Management</td>
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<tr>
<td>or any other postgraduate subject approved by the Co-ordinator and</td>
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</tr>
<tr>
<td>or applicants with an outstanding achievement record at Graduate Diploma level may be admitted to:</td>
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<tr>
<td>TQM914</td>
<td>Thesis in Quality Management</td>
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</table>

Co-ordinator: Associate Professor G John Montagner

COURSE REQUIREMENTS

GENERAL

Students seeking Advanced Standing or Exemption are advised to refer to the University Rules, in the General Information volume of the Calendar.

1. HONOURS MASTER OF TOTAL QUALITY MANAGEMENT

This course will be offered on a part-time and full-time basis and will require a minimum study period of one year full-time or two years part-time. Candidates will be required to complete the Graduate Diploma in Total Quality Management and a further 48 credit points. The 48 credit points must include a 24 credit point research thesis and 4 subjects as outlined above. Alternatively applicants with outstanding entry qualifications may complete their Honours Master of TQM by thesis only through enrolling in a 48 credit point thesis (TQM914). The research thesis must be completed with supervision from one of the Faculties of Commerce, Informatics or Engineering. This research project can be industry based and tailored to the candidate’s work-place requirements.

Entry Requirements:
A Graduate Diploma in Total Quality Management or an appropriate Graduate Diploma or Honours degree in the University or other approved institution. Prior to the conferring of the degree of Honours Master of Total Quality Management upon a candidate, the candidate must surrender the testamur for the Diploma in Total Quality Management and in doing so be deemed to have surrendered all rights pertaining to the diploma.

2. GRADUATE DIPLOMA IN TOTAL QUALITY MANAGEMENT

The candidate is required to successfully complete 48 credit points of course work as outlined in the schedule.

Entry Requirements:
Three or four year Bachelor Degree from the University or other approved institution with the qualifications of candidates applying for entrance to be assessed by the course co-ordinator(s).
3. GRADUATE CERTIFICATE IN TOTAL QUALITY MANAGEMENT

The candidate is required to successfully complete 24 credit points of course work as outlined in the schedule.

Entry Requirements:
The University may consider candidates who do not possess formal qualifications but can offer substantial professional experience in the area.

EXTERNAL COURSES

The Graduate Diploma in Total Quality Management and the Graduate Certificate in Total Quality Management are available externally through PAGE, Wollongong Online and through The University Centre, Sydney.
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

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 PROGRAM 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>
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<tbody>
<tr>
<td>(i) Master of Commerce</td>
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<tr>
<td>Schedule 1</td>
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<td>BUS945</td>
<td>Information Systems Project</td>
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<td>BUS950</td>
<td>Systems Development Methodologies</td>
<td>6</td>
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<td>BUS951</td>
<td>Critical Issues in Systems Development</td>
<td>6</td>
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<td>BUS952</td>
<td>Information Systems Management</td>
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<td>BUS953</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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<td>Schedule 2</td>
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<td>BUS981</td>
<td>Advanced Information Systems Topic A</td>
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<td>BUS982</td>
<td>Advanced Information Systems Topic B</td>
<td>6</td>
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<tr>
<td>BUS983</td>
<td>Advanced Information Systems Topic C</td>
<td>12</td>
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<td>BUS984</td>
<td>Advanced Information Systems Topic D</td>
<td>12</td>
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<tr>
<td>BUS986</td>
<td>Research Report</td>
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<tr>
<td>BUS987</td>
<td>Thesis</td>
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For further details, see Course Requirements below.
OTHER POSTGRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tr>
<td>BUSS906</td>
<td>Information in Organisations</td>
<td>6</td>
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<tr>
<td>BUSS907</td>
<td>Electronic Commerce</td>
<td>6</td>
</tr>
<tr>
<td>BUSS908</td>
<td>Intelligent Tutoring Systems</td>
<td>6</td>
</tr>
<tr>
<td>BUSS909</td>
<td>Office Automation</td>
<td>6</td>
</tr>
<tr>
<td>BUSS924</td>
<td>Systems Modelling and Simulation</td>
<td>6</td>
</tr>
<tr>
<td>BUSS925</td>
<td>Techniques for Knowledge-Based Systems Development</td>
<td>6</td>
</tr>
<tr>
<td>BUSS926</td>
<td>Decision Support Systems</td>
<td>6</td>
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<tr>
<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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</table>

Not all subjects in Schedule 4 are on offer in any year. BUSS 907 is available only to MBA students.

Graduate Diploma in Commerce
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

Graduate Certificate in Business Information Systems
Schedule 5
BUSS211 Business Systems Development A 6
BUSS212 Business Systems Development B 6
BUSS311 Database Management Systems 6
BUSS312 Distributed Information Systems 6

For further details, see Course Requirements below.

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
(ii) Research report (24 credit points) and course work aggregating not less than 24 credit points.

(b) Subjects are to be selected from 900-level subjects offered by either the Department of Accounting and Finance the Department of Economics, the Department of Business Systems, or the Department of Management, and included in the Schedule of Graduate Subjects; provided that:

(i) A combination of subjects from two departments must be approved by the Heads of the two Departments concerned, 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 (i.e. the Department offering the subject on one hand, and on the other, either Accountancy, Economics, Business Systems, 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).
(iii) 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 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: (i) a degree in computing and/or IS; or (ii) a degree with a major study in computing and/or IS; or (iii) 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 computing subject at tertiary level. Applicants not meeting this requirement may do a Summer Session course 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: (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.

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 24 credit points of specified credit. These students will not be entitled to receive the Graduate Certificate in Business Information Systems.

SUBJECT DESCRIPTIONS

Where textbooks are not specified, details will be provided at a later date. The subject co-ordinator for all 900-level subjects is Dr I. Schafe.

BUSS903 Information Systems for Managers
Spring session; 6 credit points (3 hrs per wk).
Assessment: assignments, and examination.
This subject provides an analysis of the structures and functions of the range of typical computer-based business information systems. Other issues considered are the integration of discrete applications into the total information system and organisational implications of such integration and automation. As a core MBA subject, there is an emphasis on the international nature of business and wherever possible and appropriate, case study examples and problems which illustrate the increasing globalisation of the business and management environment.

BUSS906 Information in Organisations
Autumn session; 6 credit points (3 hrs per wk).
Assessment: examination, assignments and case studies.
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.

BUSS 907 Electronic Commerce
Spring session; 6 credit points (3 hrs per wk).
Assessment: assignments and examination.
This subject examines the principles, techniques, methodologies, organisational and human implications of the business approach to telecommunication functions and electronic commerce. It describes and evaluates the services available from communication suppliers, the business approach to using the internet, commercial applications for the information superhighway and the competitive advantage obtainable from electronic commerce.

On successfully completing this subject, students will be able to define and describe electronic commerce and business re-engineering techniques including a knowledge of paperless trading methodologies such as electronic data interchange, electronic funds transfer, point of sale, barcodes, optical character recognition and data imaging. Students will have an understanding of business applications of communication systems and available communication services, including the information superhighway and internet.

BUSS908 Intelligent Tutoring Systems
Spring session; 6 credit points (3 hrs per wk).
Assessment: examination, assignments and case studies.
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
Spring session; 6 credit points (3 hrs per wk).
Assessment: examination and assignments.
This subject considers the integration of key elements in office automation - 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; decision support systems; human and ergonomic factors; office systems analysis; personnel and professional management aids; and computer-based information services.

BUSS924 Systems Modelling and Simulation
Spring session; 6 credit points (3 hrs per wk).
Assessment: assignments, examination.
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 session; 6 credit points (3 hrs per wk).
Assessment: assignments and examination.
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 session; 6 credit points (3 hrs per wk).
Assessment: assignments and examination.
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 session; 6 credit points (3 hrs per wk).
Assessment: assignments and examination.
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 session; 6 credit points (3 hrs per wk).
Assessment: assignments and examination.
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 strategies for successful knowledge-based systems applications in the business environment. Topics covered include existing types of knowledge-based systems in business applications, problems in knowledge-based systems development, existing development methodologies, strategies for successful knowledge-based system implementation, management and institutionalisation, current issues in knowledge acquisition, knowledge representation, search techniques, reasoning and uncertainty. Other issues considered are the alternative technologies to complement knowledge-based systems: object oriented programing, fuzzy systems, neural networks, machine learning and natural language processing.

BUSS930 Programming for Managers
Autumn session; 6 credit points (3 hrs per wk).
Assessment: tutorials, assignments and examination.
This subject provides an appreciation of the program development tasks of the information systems professional. Topics include: the historical development of programing and computer languages; the fundamentals of computer use, the operating system and appropriate software packages; the program development process including basic programing concepts; programing as part of the systems development cycle; software development approaches in modern organisations and current and future trends in computer programing.

BUSS931 Database for Managers
Spring session; 6 credit points (3 hrs per wk).
Assessment: assignments and examination.
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 (A) or Autumn or Spring session; 12 credit points.
Assessment: written report.
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 departments of 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 session; 6 credit points (3 hrs per wk).
Assessment: essays, presentation and examination.
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 session; 6 credit points (3 hrs per wk).
Assessment: essay and major reports.
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 session; 6 credit points (3 hrs per wk).
Assessment: assignments and examination.
This subject examines a number of current management issues pertinent to the effective and efficient use of IS/IT resources throughout an organisation in pursuit of organisational objectives. 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 session; 6 credit points (3 hrs per wk).
Assessment: assignments and examination.
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 credit points.

BUSS982 Advanced Information Systems Topic B
6 credit points.

BUSS983 Advanced Information Systems Topic C
12 credit points.

BUSS984 Advanced Information Systems Topic D
12 credit points.

BUSS986 Research Report
24 credit points.

BUSS987 Masters Thesis
48 credit points.

BUSS988 Doctoral Thesis
48 credit points per year.

BUSS989 Doctoral Thesis
48 credit points per year.
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Commerce by Coursework or Research
   Honours Master of Arts by Coursework 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*

SCHEDULE 1: MASTER OF COMMERCE (HONOURS) ECONOMICS

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<td>ECON996</td>
<td>Advanced Macroeconomic Theory</td>
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<tr>
<td>ECON997</td>
<td>Advanced Microeconomic Theory</td>
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<td>ECON998</td>
<td>Graduate Quantitative Analysis</td>
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<td>Plus</td>
<td>ECON992 Research Report</td>
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<td>or</td>
<td>ECON993 Thesis</td>
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SCHEDULE 2: GENERAL ECONOMICS

(a) Graduate Certificate/Graduate Diploma

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<td>Macroeconomic Theory and Policy</td>
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<tr>
<td>ECON215</td>
<td>Microeconomic Theory and Policy</td>
<td>8</td>
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<tr>
<td>Any approved 200 or 300 level Economics subject</td>
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(b) Master of Commerce

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<td>Graduate Macroeconomics</td>
<td>8</td>
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<tr>
<td>ECON937</td>
<td>Graduate Microeconomics</td>
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<td>and one of</td>
<td>ECON906 History of Economic Thought</td>
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<tr>
<td>or</td>
<td>ECON942 Advanced Topics B</td>
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<tr>
<td>or</td>
<td>ECON998 Graduate Quantitative Analysis</td>
<td>8</td>
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</tbody>
</table>

* Variations to the Schedules 1-10 must be approved by the Head of the Department of Economics or the Postgraduate Co-ordinator.
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 3: DEVELOPMENT ECONOMICS

<table>
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<tr>
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<td>ECON251</td>
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<tr>
<td>ECON303</td>
<td>Economic Development Issues</td>
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<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>
<td>ECON907</td>
<td>Cost-Benefit Analysis</td>
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<tr>
<td></td>
<td>ECON908</td>
<td>Advanced Topics in the Economics of Development</td>
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SCHEDULE 4: GLOBAL ECONOMICS

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<td>ECON216</td>
<td>International Economics A</td>
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<tr>
<td>ECON251</td>
<td>Industry and Trade in East Asia</td>
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<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>
<tr>
<td>ECON307</td>
<td>International Monetary Economics</td>
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<tr>
<td>(b) Master of Commerce*</td>
<td>ECON902</td>
<td>Advanced International Monetary Economics</td>
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<td>ECON911</td>
<td>Advanced International Economics</td>
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<tr>
<td></td>
<td>ECON924</td>
<td>International Economic Relations - B</td>
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SCHEDULE 5: HUMAN RESOURCE ECONOMICS

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<td>ECON240</td>
<td>Industrial Relation B: Wage Determination in Australia</td>
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<td>ECON308</td>
<td>Labour Economics</td>
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<tr>
<td>ECON315</td>
<td>Applied Microeconomics</td>
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<tr>
<td>ECON317</td>
<td>Economics of Health Care</td>
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<td>ECON912</td>
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<td>Microeconomic Analysis</td>
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<td>ECON917</td>
<td>Economics of Health Care</td>
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<td></td>
<td>ECON957</td>
<td>Productivity and Labour*</td>
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SCHEDULE 6: ENVIRONMENTAL AND RESOURCE ECONOMICS

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<tr>
<td>ECON310</td>
<td>Cost-Benefit Analysis</td>
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<tr>
<td>ECON311</td>
<td>Natural Resource Economics</td>
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<tr>
<td>ECON313</td>
<td>Economics of Energy Resources</td>
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<td>Cost-Benefit Analysis</td>
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<td>ECON919</td>
<td>Economics of Energy Economics</td>
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<td>ECON938</td>
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SCHEDULE 7: MANAGERIAL ECONOMICS

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<td>(a) Graduate Certificate/Graduate Diploma</td>
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* Head of Department of Economics may agree to the substitution of another subject if required subject is not on offer in 1997.
### SCHEDULE 7: MANAGERIAL ECONOMICS (cont’d).

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<thead>
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<td>ECON332</td>
<td>Managerial Economics</td>
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b) Master of Commerce

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<tr>
<td>ECON913</td>
<td>Industrial Economics</td>
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<td>ECON935</td>
<td>Advanced Managerial Economics</td>
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### SCHEDULE 8: MONEY, BANKING AND FINANCE

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<td>ECON331</td>
<td>Financial Economics</td>
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### SCHEDULE 9: PUBLIC POLICY

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<td>ECON304</td>
<td>Economic Policy</td>
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<td>Applied Microeconomics</td>
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(b) Master of Commerce*

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<tr>
<td>ECON903</td>
<td>Public Finance*</td>
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<td>ECON916</td>
<td>Microeconomic Analysis</td>
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### SCHEDULE 10: QUANTITATIVE ECONOMICS

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<tr>
<td>ECON221</td>
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<td>ECON222</td>
<td>Mathematical Economics</td>
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<tr>
<td>ECON228</td>
<td>Quantitative Analysis for Decision Making - I</td>
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<tr>
<td>ECON231</td>
<td>Business Statistics and Forecasting</td>
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<tr>
<td>ECON322</td>
<td>Mathematical Economics B</td>
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<tr>
<td>ECON327</td>
<td>Advanced Econometrics</td>
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<td>ECON328</td>
<td>Applied Econometric Modelling</td>
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<td>Managerial Economics</td>
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(b) Master of Commerce*

<table>
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<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>ECON909</td>
<td>Econometric Theory</td>
<td>8</td>
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<tr>
<td>ECON921</td>
<td>Econometric Models</td>
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<tr>
<td>ECON935</td>
<td>Advanced Managerial Economics and Operations Research</td>
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<td>ECON939</td>
<td>Principles of Econometrics</td>
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<td>ECON940</td>
<td>Econometric Analysis</td>
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<td>ECON941</td>
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### SCHEDULE 11: SUPPLEMENTARY

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<tr>
<td>ECON905</td>
<td>Input-Output Analysis</td>
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<tr>
<td>ECON918</td>
<td>Economics of Health Care - A (Not to count with ECON 917)</td>
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<td>ECON925</td>
<td>Advanced Economic Theory</td>
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<tr>
<td>ECON929</td>
<td>Macrodynamics</td>
<td>8</td>
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<tr>
<td>ECON932</td>
<td>Economic Analysis of the Business Environment</td>
<td>6</td>
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</table>

* Head of Department of Economics may agree to the substitution of another subject if required subject is not on offer in 1997.


SCHEDULE 11: SUPPLEMENTARY (Cont'd).

<table>
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<tr>
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<td>ECON945</td>
<td>Advanced Topics in Economics - E</td>
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<td>ECON946</td>
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<td>ECON980</td>
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<td>ECON981</td>
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<td>ECON991</td>
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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 as an economist. 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 Schedule 2 + 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
(ii) 24 credit points from section (a) of one of the Schedules 3-10.

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
Three hours lectures/seminars per week.

Assessment
Continuous assessment by written assignments, essays and Departmental examinations.

Textbooks and subject co-ordinators
Where textbooks or subject co-ordinators are not specified, details will be provided at a later date.

ECON901 Monetary Economics
8 credit points.

The subject is in two sections. The first section compares the monetarist theory of money with the reinterpreted Keynesian theory of money, examining: theories and evidence on the demand for money; the relative stability debate; the transmission mechanism and the policy implications of both theories. The second section examines conflicting theories such as Monetarist and Keynesian Neutral. The topics to be covered are: the theories of the supply of money; the effect of the growth of financial institutions on the efficacy of monetary policy; and the debate on the term structure of interest rules. Much of the subject will be based on journal articles in which most of the debates have been carried.

Co-ordinator: Dr C Harvie and Dr B Lee.

ECON902 Advanced International Monetary Economics*
8 credit points.

Foreign exchange markets; banking and financial institutions; money supply, price

* Not on offer in 1997.
level and international adjustment; international monetary system.
Co-ordinator: Dr K Chowdhury.

ECON903 Public Finance* 8 credit points.
This subject further develops topics encountered in the undergraduate Public Finance course. Particular emphasis will be placed on issues surrounding inter-governmental fiscal relations in a federal system. Questions of fiscal transfer mechanism, division of powers and responsibilities and the equalisation measures which might be used will be considered.
Co-ordinator: Associate Professor R Castle.

ECON905 Input-Output Analysis* 8 credit points.
Design and estimation of input-output matrices. Basic equilibrium, optimising and forecasting techniques. Application to planning and some regional problems.

ECON906 History of Economic Thought 8 credit points.
A study of the history of Economics, mainly concerned with the origins and development of modern Economics.
Co-ordinator: Associate Professor R Castle.

ECON908 Advanced Topics in the Economics of Development 8 credit points.
The subject provides an in-depth analysis of formulation of development policies in less developed countries in the light of theory and experience. The formulation of an integrated strategy of development is preceded by problem description and application of relevant economic theory. Possible 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 planning.
Co-ordinator: Associate Professor D P Chaudhri.

ECON909 Econometric Theory 8 credit points.
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 course will be based on journal articles in which the current econometric issues have been discussed.
Co-ordinator: Associate Professor Tran Van Hoa.

ECON911 Advanced International Economics 8 credit points.
Aspects of some of the following topics are studied: growth and trade; factor transfers (foreign investment); tariffs; import-substitution; industrialisation; foreign exchange market; internal and external balance (the two-gap model).
Co-ordinator: Dr CS Suh.

ECON912 Labour Economics 8 credit points.
The theory of the labour market and applications to the Australian situation, including labour supply and demand. Special emphasis is placed on analysing the character of the workforce and the structural changes in industries and occupations. Wage theory and practice are examined under conditions of collective bargaining and arbitration. The development of the arbitration system in Australia and principles of wage determination followed by the Commission are of particular importance. Wages and income policies, including indexation policies will also be studied, as will wage developments outside the arbitration system.
Co-ordinator: Ms N Verrucci.

ECON913 Industrial Economics 8 credit points.
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.
Co-ordinator: Dr C-S Suh.

ECON916 Microeconomic Analysis 8 credit points.
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.
Co-ordinator: Professor D Lewis.

ECON917 Economics of Health Care 8 credit points.
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.
Co-ordinator: Associate Professor D Lewis.

ECON919 Economics of Energy Resources* 8 credit points.
The main objects of the subject are to review the applications of economic theory to contemporary energy problems; and to evaluate the available options for energy policies. The course topics include: social objectives with respect to energy; renewable and non-renewable energy resources; optimisation frameworks for the extraction of energy resources; the demand for energy; energy supply and the role of alternative energy technologies including the role of nuclear energy; energy deficits and the role of international trade; and the design and implementation of energy policies.

ECON921 Econometric Models 8 credit points.
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 estimating models with desirable properties, on testing procedures, on model evaluation and selection, and applications. Examples from current Australian econometric models will be critically examined.
Co-ordinator: Associate Professor Tran Van Hoa.

ECON923 Applied Economic Development Planning 8 credit points.
This subject will develop the skills needed by those engaged in economic development planning and analysis. Topics covered will include: identification of program objectives, program planning, program evaluation and appraisal, program implementation and management. Several programs in developing nations will be reviewed.
Co-ordinator: Associate Professor A Levy.

ECON924 International Economic Relations - B 8 credit points.
Not to count with INTR920.
The subject will examine policy issues in the international economy, especially as they affect the Asia-Pacific region. The role of international economic organisations such as the IMF, World Bank, and GATT will be emphasised as well as issues such as free trade, protectionism, exchange rate determination and international capital flows. Options available to individual countries for international economic policy will be explored.
Co-ordinator: Associate Professor R Castle.

ECON925 Advanced Economic Theory* 8 credit points.
Advanced topics in economic theory will be studied. Topics in microeconomics will normally include game theory, general
equilibrium analysis, welfare economics and economics of regulation. Topics in macroeconomics will normally include growth theory, trade cycle theory, open economy dynamics, rational expectations and post-Keynesian economics.

**Co-ordinator:** Mr E Wilson.

**ECON929 Macrodynamics**

* 8 credit points.

This subject covers dynamic aspects of macroeconomics, including economic growth theory and business cycle theories. The role of technological change, balanced and unbalanced growth, shock adjustment, and optimal growth will all be studied in a framework of macroeconomic modelling.

**Co-ordinator:** Associate Professor A Levy.

**ECON932 Economic Analysis of the Business Environment**

* 6 credit points.

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.

**Co-ordinator:** Ms A Hodgkinson.

**ECON933 Game Theory**

* 8 credit points.

Pre-requisite: ECON111 and ECON112 or their equivalents.

A study of advanced topics in game theory. The objective of this subject is to build on traditional analytical techniques in economics based on assumptions of certainty and competitive markets. Using game theory, the analysis is extended to settings that traditional economic analysis is unable to cope with. These typically involve settings incorporating risk and uncertainty, asymmetric and incompleteinformation and strategic situations where the assumptions of competitive markets do not apply. The emphasis is on theoretical developments and the application of the central tools of game theory to real world problems of business and economics involving strategic interactions between parties.

**Co-ordinator:** Dr B Lee.

**ECON934 Advanced Financial Economics**

* 8 credit points.

Pre-requisite: ECON121 or equivalent.

An advanced study of the theory of optimal acquisition, financing and composition of assets and production activities with applications in the fields of economics of the firm, agricultural economics and international economics. The optimal control method and phase-plane diagrams will be applied in the analysis of the optimal trajectories of capital investment, advertising and borrowing. Investors' portfolio choices and producers' activity sets will be analysed within a mean-variability expected utility maximisation framework incorporating the notions of risk aversion, costs of risk bearing and diversification. The determinants and implications of debt accumulation, insolvency, continuation or liquidation will be analysed within the context of international economics.

**Co-ordinator:** Associate Professor A Levy.

**ECON935 Advanced Managerial Economics and Operations Research**

* 8 credit points.

Pre-requisite: ECON228 or ECON320 or equivalent.

A study of advanced quantitative techniques and their applications in 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.

**Co-ordinator:** Associate Professor M Metwally.

**ECON936 Graduate Macroeconomics**

* 8 credit points.

The aim of the subject is to analyse the major factors which determine economic behaviour in the aggregate and to evaluate how alternative macroeconomic policies may improve some performance. In doing so the course examines the major determinants of aggregate demand equilibrium, namely consumption and investment demands, international factors, money and interest. Monetary and fiscal policies are examined using this analytic structure to determine the effectiveness of these policies. Aggregate supply equilibrium is then analysed in terms of wages, prices and employment. The problems of inflation and unemployment are also considered along with possible wages policies. The subject concludes with a brief review of longer term growth explanations of economic behaviour and associated policy prescriptions.

**Co-ordinator:** Mr E Wilson.

**ECON937 Graduate Microeconomics**

* 8 credit points.

The subject provides the theoretical basis for analysis of a wide range of microeconomic issues and policies. Topics include demand and supply theory; consumer 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.

**Co-ordinator:** Dr C-S Suh.

**ECON938 Environmental Economics**

* 8 credit points.

This subject will provide a comprehensive analysis of environmental issues utilizing 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.

**Co-ordinator:** Ms A Hodgkinson.

**ECON939 Principles of Econometrics**

* 8 credit points.

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.

**Co-ordinator:** Associate Professor Tran Van Hoa.

**ECON940 Econometric Analysis**

* 8 credit points.

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.

**Co-ordinator:** Dr K Chowdhury.

**ECON941 Advanced Topics in Economics - A**

* 8 credit points.

**ECON942 Advanced Topics in Economics - B**

* 8 credit points.

**ECON943 Advanced Topics in Economics - C**

* 8 credit points.

**ECON944 Advanced Topics in Economics - D**

* 8 credit points.

**ECON945 Advanced Topics in Economics - E**

* 8 credit points.

**ECON946 Advanced Topics in Economics - F**

* 8 credit points.

Topics for these subjects (A-F) may be drawn from any area of Economics which has been approved by Head, Department of Economics and seminars.

**Co-ordinator:** Professor D Lewis.

**ECON980 Special Topics in Economics - G**

* 6 credit points (3 hrs per wk of lectures, tutorials and seminars)

Pre-requisites: ECON932 or other ECON as approved by Head, Department of Economics

Note: Enrolment must be specifically approved by the Head, Department of Economics

The purpose of this subject is to make available a 6 credit point form of specialised ECON subjects for MBA students.

**Co-ordinator:** Dr B Lee.
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).

Co-ordinator: Associate Professor R Castle.

ECON981 Special Topics in Economics - H
6 credit points (3 hrs per wk of lectures, tutorials and seminars)
Pre-requisites: ECON932 or other ECON as approved by Head, Department of Economics
Note: Enrolment must be specifically approved by the Head, Department of Economics
The purpose of this subject is to make available a 6 credit point form of specialised 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).

Co-ordinator: Associate Professor R Castle.

ECON991 Project
16 credit points.

ECON992 Research Report
24 credit points.

ECON993 Thesis
48 credit points per year.

ECON996 Advanced Macroeconomic Theory
8 credit points.
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 in 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.

Co-ordinator: Mr E Wilson.

ECON997 Advanced Microeconomic Theory
8 credit points.
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.

Co-ordinator: Dr T Webber.

ECON998 Graduate Quantitative Analysis
8 credit points.
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 Research
   Honours Master of Arts by Coursework and 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

SCHEDULE 12: INDUSTRIAL RELATIONS
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>
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<tbody>
<tr>
<td>ECON912</td>
<td>Labour Economics</td>
<td>8</td>
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<tr>
<td>ECON913</td>
<td>Industrial Economics</td>
<td>8</td>
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<tr>
<td>ECON944</td>
<td>Advanced Topics in Economics - D</td>
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<td>ECON945</td>
<td>Advanced Topics in Economics - E</td>
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<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>
</tr>
<tr>
<td>ECON958</td>
<td>Industrial Relations and Management Thought</td>
<td>8</td>
</tr>
<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT962</td>
<td>Environmental and Occupational Health</td>
<td>6</td>
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<tr>
<td>LAW966</td>
<td>Studies in Industrial Law</td>
<td>6</td>
</tr>
<tr>
<td>LAW969</td>
<td>Occupational Health and Safety Law</td>
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<tr>
<td>GMHC954</td>
<td>Organisational Psychology*</td>
<td>8</td>
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</table>

1Subject available only to those doing ECON992 Research Report (24 credit points).

For further details, see Subject Requirements in Economics section.

SCHEDULE 13: OTHER POSTGRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>ECON954</td>
<td>Industrial Relations in Australia*</td>
<td>6</td>
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<tr>
<td>ECON956</td>
<td>Advanced Industrial Relations Processes</td>
<td>8</td>
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<tr>
<td>ECON973</td>
<td>Employers and Industrial Relations - A</td>
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<tr>
<td>ECON975</td>
<td>Advanced Industrial Relations Processes</td>
<td>6</td>
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<tr>
<td>ECON991</td>
<td>Project</td>
<td>16</td>
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<tr>
<td>ECON992</td>
<td>Research Report</td>
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<tr>
<td>ECON993</td>
<td>Thesis</td>
<td>48</td>
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</table>

SCHEDULE 14: INDUSTRIAL RELATIONS
leading to the Graduate Diploma.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<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>
<tr>
<td>ECON243</td>
<td>Work and Employment Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON340</td>
<td>Comparative Studies in Industrial Relations</td>
<td>8</td>
</tr>
<tr>
<td>ECON341</td>
<td>International and Comparative Employment Relations</td>
<td>8</td>
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<tr>
<td>ECON342</td>
<td>Research Topics in Industrial Relations*</td>
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</table>

* Not on offer in 1997.
SCHEDULE 14: INDUSTRIAL RELATIONS (Cont'd)  
leading to Graduate Diploma

<table>
<thead>
<tr>
<th>Number</th>
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<tr>
<td>ECON348</td>
<td>Employers and Industrial Relations</td>
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<tr>
<td>ECON352</td>
<td>Industrial Relations Processes</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.

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 ECON993 Thesis - 48 credit points together with 48 credit points of approved subjects chosen from Schedules 12 and 13; or
- ECON992 Research Report - 24 credit points together with 72 credit points of approved subjects chosen from Schedules 12 and 13.

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**

Where textbooks and/or co-ordinators are not specified, details will be provided at a later date.

**Composition of Subjects**

Three hours lectures/seminars per week.

**Assessment**

Continuous assessment by written assignments, essays and Departmental examinations.

**ECON948 Employers and Industrial Relations**

8 credit points.

The objective of this subject is to develop a better understanding of the role of management/employers in industrial relations. The subject matter divides into two main areas. First, the role of management in industrial relations within the individual enterprise or organisation, which involves a critical analysis of various theories about management and the enterprise and a survey of management strategies in industrial relations, including negotiating and advocacy techniques. The second area concerns the combination of individual managements into coalitions in the form of employer associations. This covers the bases of employer organisation, the structure and function of employer associations in Australia, and a comparison of Australian employer associations with those in other countries.

Co-ordinator: Ms D Kelly.

**ECON952 Workplace and Enterprise Industrial Relations**

8 credit points.

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.

Co-ordinator: Ms D Kelly.

**ECON953 Political Economy of Australian Wage Determination**

8 credit points.

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.

Co-ordinator: Associate Professor R Markey.

**ECON954 Industrial Relations in Australia**

6 credit points.

Topics include: the structure and nature of Trade Unions; the structure and nature of Employer Organisations; issues in Industrial Relations; strategies and tactics in Industrial Relations; the role of the state in Industrial Relations.

Note: ECON954 is available only to students enrolled in the Diploma in Management or in the Master of Business Administration.

**ECON955 Comparative Studies in Industrial Relations**

8 credit points.

A comparative examination of the development and organisation of industrial relations systems in a variety of different countries.

Co-ordinator: Associate Professor R Markey.

**ECON956 Advanced Industrial Relations Processes**

8 credit points.

This subject will develop concepts, theories and techniques for the choice and evaluation of strategies and tactics in collective bargaining and advocacy.

Co-ordinator: Ms D Kelly.

**ECON957 Productivity & Labour**

8 credit points.

An examination of the meaning and measurement of labour productivity, and its relationship to wage bargaining at national industry and enterprise levels. The subject also examines the impact of productivity based wage bargaining on unions, employer organisation and the economy.

Co-ordinator: Associate Professor R Castle.

*Not on offer in 1997.
ECON958 Industrial Relations and Management Thought
8 credit points.
An examination of the ideas and strategies which modern management theorists have developed in order to deal effectively with the open-ended nature of the employment relationship. Particular attention is paid to the reasons why management has developed and applied these theories and the extent to which they have proven successful.

ECON973 Employers and Industrial Relations - A
6 credit points.
Not to count with ECON948.
The subject aims to develop an understanding of the role of employers/management in industrial relations, at the level of the firm and at the level of employer association. It examines theories and strategies of IR management in the firm, and the structure and function of employer associations in Australia and overseas.

ECON975 Advanced Industrial Relations Processes
6 credit points.
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.
Co-ordinator: Dr M Murray

For descriptions of subjects not listed here, refer to Economics section.
MANAGEMENT

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.

- Business policy
- Enterprise development and entrepreneurship
- Human resource management
- International management
- Interorganisational relations
- Management of Change
- Management training
- Manufacturing strategy
- Operations management
- Organisational behaviour and structure
- Organisational politics and culture
- Public sector management
- Regional Development
- Sociology of Work
- Strategic management
- Technology and Organisational Change
- Total quality management
- Women in management

SCHEDULE OF PROGRAMS

GRADUATE CERTIFICATE IN MANAGEMENT

This is a 24 credit point course which may be taken from several approved schedules. Refer to The Business school Entry.

GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT)

This is a 48 credit point course. Refer to The Business School Entry.

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.
5. Subject to the approval of the Program Director.

GENERAL POSTGRADUATE PROGRAM SCHEDULE

<table>
<thead>
<tr>
<th>Number</th>
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<th>Credit Points</th>
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<tr>
<td>ACCY921</td>
<td>Managerial Finance</td>
<td>6</td>
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<tr>
<td>ACCY922</td>
<td>Capital Investment</td>
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<tr>
<td>ACCY923</td>
<td>Investment Management</td>
<td>6</td>
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<tr>
<td>ACCY927</td>
<td>Small Business Finance</td>
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<tr>
<td>ACCY928</td>
<td>Multinational Financial Management</td>
<td>6</td>
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## GENERAL POSTGRADUATE PROGRAM SCHEDULE (cont’d).

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<td>Special Topic in Accounting A</td>
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<tr>
<td>ACCY986</td>
<td>Special Topic in Accounting B</td>
<td>6</td>
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<tr>
<td>BUSS903</td>
<td>Information Systems for Managers</td>
<td>6</td>
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<tr>
<td>ECON907</td>
<td>Cost Benefit Analysis</td>
<td>8</td>
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<tr>
<td>ECON954</td>
<td>Industrial Relations in Australia</td>
<td>6</td>
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<td>GHEMA914</td>
<td>Ergonomics</td>
<td>8</td>
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<td>LAW961</td>
<td>Selected Legal Topics in Management</td>
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<td>MGMT911</td>
<td>Organisational Behaviour</td>
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<tr>
<td>MGMT915</td>
<td>Management of Change</td>
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<tr>
<td>MGMT916</td>
<td>Management and Employment Relations</td>
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<tr>
<td>MGMT917</td>
<td>Business Ethics</td>
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<td>MGMT918</td>
<td>Organisational Processes</td>
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<tr>
<td>MGMT919</td>
<td>Human Resource Strategies and TQM</td>
<td>6</td>
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<tr>
<td>MGMT920</td>
<td>Organisational Analysis</td>
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<tr>
<td>MGMT924</td>
<td>Organisations and their Environments</td>
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<td>MGMT925</td>
<td>Selected Topics A</td>
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<td>MGMT926</td>
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<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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<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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<td>Innovation and Entrepreneurship</td>
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<td>MGMT941</td>
<td>Small Business Management I</td>
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<td>MGMT944</td>
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<td>MGMT945</td>
<td>Technology Enterprise Project</td>
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<td>MGMT947</td>
<td>Quality Management</td>
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<tr>
<td>MGMT948</td>
<td>Project in Regional Administration</td>
<td>6</td>
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<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>
<td>6</td>
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<tr>
<td>MGMT960</td>
<td>Case Study</td>
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<td>MGMT961</td>
<td>International Business Management</td>
<td>6</td>
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<tr>
<td>MGMT963</td>
<td>Management of Occupational Health and Safety</td>
<td>6</td>
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<td>MGMT965</td>
<td>Occupational Hazards</td>
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<td>MGMT966</td>
<td>Occupational Hazards II</td>
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<td>MGMT967</td>
<td>Quantitative Methods</td>
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<td>MGMT968</td>
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<td>MGMT976</td>
<td>Competitive Strategy &amp; Analysis</td>
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<td>Cross Cultural Management</td>
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<td>MGMT979</td>
<td>Financial Decision Making</td>
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<td>MGMT980</td>
<td>Business Research Methods</td>
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<td>MGMT981</td>
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<td>MGMT982</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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</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.

MCom Program Director: Dr Robert Jones.

### MASTER OF COMMERCE - HUMAN RESOURCE MANAGEMENT SPECIALISATION

<table>
<thead>
<tr>
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<th>Subject</th>
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<tr>
<td>MGMT911</td>
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<td>MGMT920</td>
<td>Organisational Analysis</td>
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<td>MGMT919</td>
<td>Human Resource Strategies and TQM</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>
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<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
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<tr>
<td>LAW960</td>
<td>Law for Professionals</td>
<td>6</td>
</tr>
</tbody>
</table>

and an Industrial Relations Subject approved by the Course Director

Specialisation Director: To be advised

For further details, see Course Requirements below.
### MASTER OF COMMERCE - PUBLIC SECTOR MANAGEMENT SPECIALISATION*

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MGMT920</td>
<td>Organisational Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MGMT915</td>
<td>Management of Change</td>
<td>6</td>
</tr>
<tr>
<td>MGMT927</td>
<td>Australian Government Administration</td>
<td>6</td>
</tr>
<tr>
<td>MGMT928</td>
<td>Public Policy and Administration</td>
<td>6</td>
</tr>
<tr>
<td>MGMT924</td>
<td>Organisations and their Environments</td>
<td>6</td>
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<tr>
<td>plus one of</td>
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<tr>
<td>ACCY983</td>
<td>Studies in Government Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ECON903</td>
<td>Public Finance</td>
<td>8</td>
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<tr>
<td>plus a subject from the General Postgraduate Schedule.</td>
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Specialisation Director: to be advised.

*This specialisation is not on offer in 1997.

For further details, see Course Requirements below.

### MASTER OF COMMERCE - OPERATIONS MANAGEMENT SPECIALISATION

<table>
<thead>
<tr>
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<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
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<tr>
<td>MGMT947</td>
<td>Quality Management</td>
<td>6</td>
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<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>
<td>6</td>
</tr>
<tr>
<td>MGMT967</td>
<td>Quantitative Methods</td>
<td>6</td>
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<tr>
<td>MGMT979</td>
<td>Financial Decision Making</td>
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<tr>
<td>MGMT933</td>
<td>Management of Process Innovation 1</td>
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<tr>
<td>or</td>
<td>MGMT934</td>
<td>Management of Process Innovation 2</td>
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</table>

Specialisation Director: Mr J Flanagan.

For further details, see Course Requirements below.

### MASTER OF COMMERCE - ORGANISATIONAL BEHAVIOUR SPECIALISATION*

<table>
<thead>
<tr>
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<tbody>
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<td>MGMT911</td>
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<td>Organisational Analysis</td>
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<td>MGMT915</td>
<td>Management of Change</td>
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<tr>
<td>MGMT953</td>
<td>Human Resource Management</td>
<td>6</td>
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<tr>
<td>MGMT979</td>
<td>Financial Decision Making</td>
<td>6</td>
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<tr>
<td>MGMT918</td>
<td>Organisational Processes</td>
<td>6</td>
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<tr>
<td>or</td>
<td>MGMT961</td>
<td>International Business Management2</td>
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<td>plus a subject from the Postgraduate Schedules.</td>
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</table>

Specialisation Director: to be advised.

For further details, see Course Requirements below.

*This specialisation is not on offer in 1997.

### GRADUATE DIPLOMA IN COMMERCE (OCCUPATIONAL HEALTH AND SAFETY)*

Course Director: Dr M Zanko.

*This course will not be offered in 1997.

### 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>
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<tr>
<td>MGMT989</td>
<td>Special Topic D</td>
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<td>plus</td>
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<tr>
<td>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:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT990</td>
<td>Minor Thesis</td>
<td>24</td>
</tr>
</tbody>
</table>
DOCTOR OF PHILOSOPHY

MGMT991 Major Thesis
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

(i) 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 a 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. HONOURS MASTER OF ARTS

(1) Candidates who have completed 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. The appropriate standard may be a credit average of Class II, Division 2 or equivalent.

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 96 credit point course, which may include 48 credit points of undergraduate subjects from the Commerce Schedule, as determined by the Program Director. 24 credit points of this undergraduate course work must be taken at the 300-level.

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

Where textbooks and/or co-ordinators are not specified, details will be made available at a later date.

MGMT905 Business Ethics and Law

6 credit points (3 hrs per wk).

Assessment: projects, tutorials and examination.

The legal studies component covers the following: legal basis of business and organisations; the liabilities of managers and company directors in law; legal processes that impinge on the managerial function eg EEO, FOI, IR, anti discrimination legislation. The ethics component will cover both Australian and international business environments to deal with the ethical issues of: codes of conduct and practice; morality and business; controlling and coding ethical practices within organisations; ethical issues in running organisations; environmental and personal factors affecting ethical choices; professional codes of conduct.
MGMT906 Managing People At Work
6 credit points (3 hrs per wk).
Assessment: tutorials, seminars, assignment(s) and examination.

STUDENTS TAKING MGMT906 CANNOT ALSO ENROL IN MGMT911
It is recommended that MGMT906 and MGMT907 be studied in parallel or MGMT906 taken before MGMT907.

A study of the contemporary environment of human resource management with particular reference to organisational strategies 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.

Textbook:
Co-ordinator: Professor S Linstead.

MGMT907 Managerial Skills Workshop
6 credit points (3 hrs per wk).
Assessment: tutorials, workshops, and examination.

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
6 credit points (2 hrs per wk).
Assessment: seminars, case studies, essay(s) and examination(s).

STUDENTS TAKING MGMT911 CANNOT STUDY MGMT906.

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.

Co-ordinator: Dr R Jones.

MGMT915 Management of Change
6 credit points (3 hrs lectures/seminars).
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; control and monitoring change; sustaining change.

Co-ordinator: Dr R Jones.

MGMT916 Management and Employment Relations
6 credit points (3 hrs per wk).
Assessment: assignments, seminars, examination.

The subject explores the use of different social theories of management for the analysis of the managerial policies that cover the employment relationship. The impact of technical, administrative skill, of negotiation and of culture creation in the management of work and employment relationships are assessed. The development of policies on recruitment and selection, training and career development, job design, organisational design, job evaluation, performance appraisal and incentive payment schemes are analysed.

Co-ordinator: Dr M Zanko.

MGMT917 Business Ethics*
6 credit points (3 hrs per wk).
Pre-requisite: Not to count with MGMT351
Assessment: essay, case study, examination.

An examination of central issues in business ethics. Topics covered will be ones such as: the concept of social responsibility; individual values and corporate values; competing models for making ethical decisions, ie consequentialist and non-consequentialist: ethics for the employee, the customer, the environment, the community, the government and the multinational context. Specialised assignments and tutorials will relate these topics to postgraduate levels of analysis and experience in the business environment.

Textbook:

MGMT918 Organisational Processes
6 credit points (3 hrs per wk).
Assessment: assignments, seminars, examination.

This subject will examine the nature of organisational processes using three primary lenses: analysis of the organisation, the work group and the individual. The focus will be on advanced theoretical and applied skills in 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 in the human resource domain.

Co-ordinator: Dr W Rikkin.

MGMT919 Human Resource Strategies and TQM
6 credit points (3 hrs lectures/seminars per wk).
Assessment: assignments, seminars, examination.

This subject will examine the human resource management aspects of Total Quality Management (TQM). TQM developed as a set of managerial practices, a concept of 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.


Co-ordinator: Dr G Sewell.

MGMT920 Organisational Analysis
6 credit points (3 hrs per wk).
Assessment: seminars, essays examinations.

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, organisation culture, and organisation-employment relations will also be considered.

Co-ordinator: Dr G Sewell.

MGMT924 Organisations and their Environments*
6 credit points (3 hrs/wk lectures/seminars).
Assessment: assignments, seminars examinations.

Relations between the different levels of Australian government, public-private sector interactions, relations between unions, government and business, and inter-departmental relations. These inter-organisational relations will be examined as bases for collaborative strategies and action within regions, including processes and problems of developing such bases.

Co-ordinator: Dr M Zanko.

MGMT925 Selected Topic A
6 credit points.

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
6 credit points.

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.

MGMT927 Australian Government Administration
6 credit points (2 hrs per wk lecture/seminar).
Assessment: assignments, tutorials, examinations.

An introduction to the development of government administration in the Australian States, the Commonwealth and Local Government. Inter-governmental relations within a federal system. Basic principles of government, public sector management, including the Westminster parliamentary system and features of Australian Government administration such as state, federal and statutory authorities. An introduction to regional government administration, including an overview of

* Not on offer in 1997.
its development in Australia and the political and administrative issues raised.

MGMT928 Public Policy and Administration
6 credit points (3 hrs per wk).
Assessment: assignments, tutorials, examinations.
The process of formulating public policy through existing governmental machinery, the pressures created by present and emerging public policy issues, problems and solutions in regional public policy formulation, and the role and problems of regional administration.

MGMT931 Strategic Planning and Policy
6 credit points (3 hrs per wk).
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.
Assessment: examination and essays.
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 structure and the organisational context; strategy and competitive advantage; inter-relationships, diversification, integration, acquisition and internal development; global strategies.
Co-ordinator: Associate Professor AB Sim.

MGMT933 Management of Process Innovation 1
6 credit points (3 hrs per wk).
Assessment: group project, essays, and examination.
A key concern of contemporary technology management is improving the rate and quality of process innovation by adopting new methods to successfully integrate the human, organisational and technological factors. This subject introduces the student to the interdependent human and technological character of production systems and methods for integrating technical and organisational expertise in new production system designs. The nature of production systems and process innovation is introduced through a critique of traditional technological determinist and contingency models, and the use of contemporary configurational theory. The different approaches to production system design are introduced through a critical examination of the changing perspectives within organisations of process engineering, enterprise management, information systems management, and workers representatives.
Co-ordinator: Professor RJ Badham.

MGMT934 Management of Process Innovation 2
6 credit points (3 hrs per wk).
Assessment: group presentation, essays, and examination.
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, critically reviews alternative explanations of the nature and direction of process innovation, and examines a range of implementation strategies and methods for integrating technical and organisational innovation in the effective realisation of new production systems. This subject introduces students to the following models of process innovation: sequential-engineering model; labour process and socio-technical models; strategic choice and processual models; paradigm, trajectory, and configurational models, and inter-organisational and network models of incremental learning and innovation. Implementation strategies and methods are investigated through a discussion of the implied strategies in different models of innovation, strategic choices in implementation strategies, and contemporary strategic planning, cross functional team formation, participation, and problem solving methods.
Textbooks:
Co-ordinator: Associate Professor RJ Badham.

MGMT940 Innovation and Entrepreneurship
6 credit points (2 hrs lectures per wk).
Assessment: essay(s) and examinations.
The nature and role of entrepreneurs and entrepreneurialship. The economic, behavioural and institutional conditions associated with entrepreneurship. Entrepreneurship and new high technology enterprises: empirical analysis at a firm and industry level, spin-off enterprises. Entrepreneurship and managing the corporate venturing process.
Co-ordinator: Mr L Kirchmajer.

MGMT941 Small Business Management I
6 credit points (2 hrs lectures per wk).
Assessment: essay(s) and examinations.
This subject develops financial, marketing, organisational and production strategies for established and growing small businesses. It integrates functional knowledge developed in earlier subjects and examines this in a small business context through the development of business planning procedures.
Co-ordinator: Mr L Kirchmajer.

MGMT943 Small Business Management II
6 credit points (2 hrs lectures per wk).
Assessment: essay(s) and examinations.
Selected issues in small business management. These may draw from a wide field depending on student interest. Topics may include licensing, franchising, use of advisory services, negotiating skills, stress management, service sector management and marketing, co-operatives, family business and management succession.
Co-ordinator: Mr L Kirchmajer.

MGMT944 Enterprise Project
12 credit points (2 hrs lectures per wk).
Assessment: project work.
Students will develop their own small business project. This would normally involve them in developing new product/service proposals and planning the establishment of a new enterprise. The completion of a business plan in a form that could be assessed by potential investors and/or financiers would be a major goal of this project.

MGMT945 Technology Enterprise Project
6 credit points (2 hrs lectures per wk).
Assessment: assignments, examination, seminar.
This subject will cover the preparation of feasibility studies, sources of business opportunities, key elements of business plans and development of a business plan. Not to be taken with MGMT944.
Co-ordinator: Mr L Kirchmajer.

MGMT946 Quality Management
6 credit points (2 hrs lectures per wk).
Assessment: assignments and examination.
This subject provides the student with an understanding of how an organisation can successfully make the transition to Total Quality Management (TQM). Specific topics will include: Japanese management practices and the impact on competitive advantage; TQM as part of corporate strategy; Kanban and JIT production management; quality circles; statistical tools and controls; Kaizen management; applications, implementation and auditing of TQM. Special emphasis is placed on the necessary changes in organisational structure and culture.
Co-ordinator: Mr J Flanagan.

MGMT948 Project in Regional Administration
6 credit points (3 hrs per wk lectures/seminars).
Assessment: major project.
Participants will be challenged to investigate a regional issue or the application of a wider public policy to a region and develop proposals for effective strategies, working in the mode of a governmental task force.

MGMT952 Production and Operations Management
6 credit points (3 hrs per wk).
Assessment: case studies, essay(s) and examination.
A study of the design and operation of activities for the production of goods and services. Topics include: qualitative and quantitative forecasting, production planning and scheduling, management of quality and productivity, project management, and flexible manufacturing systems (FMS). Particular emphasis will be placed on a comparison of Japanese production and quality management methods with the traditional Western methods, total quality management (TQM), computer aided manufacturing (CAM), and implications for human resource management.
Co-ordinator: Mr J Flanagan.

MGMT953 Human Resource Management
6 credit points (3 hrs per wk).
Assessment: seminars, case studies, essay(s) and examination(s).
Managing people at work, including recruitment, selection, human resources planning, performance appraisal, training and development, employee relations, employee management, employee management, employee management, employee management.
and development, compensation, health and safety, and ergonomics. Co-ordinator: Dr G Sewell.

MGMT955 Special Topic in Management
6 credit points.
Assessment: seminars, case studies, essay(s) and examination(s).
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 Case Study
6 credit points.
An in depth analysis of a particular managerial problem encountered in a specific company or industry situation. Co-ordinator: Dr M Zanko.

MGMT961 International Business Management
6 credit points (2 hrs lectures/ tutorials/seminars).
Assessment: examination and/or coursework.
This course will deal with the identification, analysis and resolution of Malaysian issues of strategy and action within the context of firms operating in international and global business environment. Through the study of major issues in strategic and functional areas of international business 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. Co-ordinator: Associate Professor AB Sim.

MGMT963 Management of Occupational Health and Safety
6 credit points (3 hrs per wk).
Assessment: assignments, seminars, examination.
This subject examines issues associated with the establishment of programs for the effective management of Occupational Health, Safety and Rehabilitation. Topics include: Technical and motivational approaches to the role of the specialist, benefit-cost analysis, emergency and disaster management, networking within and between organisations, design of accident investigation and hazard assessment reporting systems, and the impact of work organisation on occupational health and safety.

MGMT965 Occupational Hazards
6 credit points (3 hrs per wk lecture/seminar).
Assessment: assignments, tutorials, examinations.
This subject will deal with the various hazards which may affect the health of employees; significant agents of injury or disease encountered in work places: their effects, methods of avoidance or control and preliminary as well as rehabilitative treatment of workers affected by those agents will be discussed.

MGMT966 Occupational Hazards II
6 credit points (3 hrs per wk lecture/seminar).
Assessment: research report.
This subject extends the study initiated in Occupational Hazards I, and affords the opportunity for students to make an intensive study of a hazard or group of hazards of particular interest to them.

MGMT967 Quantitative Methods
6 credit points (3 hrs per wk lecture/seminar).
Assessment: assignments, tutorials, examination.
This subject introduces the quantitative techniques used to compile, interpret and analyze data. A particular emphasis will be given on the role of the computer, and the subject will provide a coverage of the main quantitative techniques used in business as an aid to decision making.

MGMT968 Communication*
6 credit points (3 hrs per wk lecture/seminar).
Assessment: assignments, tutorials, examinations.
This subject enables a study of effective communication techniques, with a view to optimising students’ intervention on organisational issues. This subject requires a high standard of English. Students with limited fluency will be encouraged to take MGMT961 as an alternative.

MGMT976 Cross Cultural Management
6 credit points (3 hrs per wk).
Assessment: case analysis, seminar presentation, and examination.
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.

MGMT978 Competitive Strategy and Analysis
6 credit points (3 hrs per wk).
Assessment: seminars, essays and examination.
This subject introduces the quantitative techniques used for analysing competitors and competition in industry. Topics include: introduction to financial decision making under conditions of risk and uncertainty; models and criteria for rational decision making in organizations. The quantitative dimensions will be based on decision models and criteria for rational decision making under conditions of risk and uncertainty. Emphasis will be given to financial decision making in areas such as capital investments, forecasting, budgeting and financial planning.

MGMT980 Businocc Research Methods
6 credit points (3 hrs per wk).
Assessment: seminars, assignments, essay(s), examination(s).
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: 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.

MGMT981 MBA Research Project
24 credit points.
Assessment: project report.
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. Co-ordinator: Professor M Hough.

MGMT982 Project
18 credit points (individual contact with supervisor).
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. Co-ordinator: Professor M Hough.

MGMT986 Special Topic A
12 credit points.
NB. May be taken only with permission of the Head of Department of Management.

MGMT987 Special Topic B
12 credit points.
NB. May be taken only with permission of the Head of Department of Management.

MGMT988 Special Topic C
12 credit points.
NB. May be taken only with permission of the Head of Department of Management.

MGMT989 Special Topic D
12 credit points.
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.
Co-ordinator: to be advised.

MGMT990 Minor Thesis
24 credit points.

MGMT991 Major Thesis
48 credit points.
Approved program of study agreed with the Head of the Department of Management or Course Director.

MGMT996 Managing for Innovation
6 credit points (2 hrs per wk).
Assessment: assignments, examinations. 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.
MARKETING

COURSSES 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)

MASTER OF COMMERCE PROGRAM

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
- Product Policy and Branding
- Environmental Marketing
- Relationship Marketing
- Sales Management
- Services Marketing

MASTER OF COMMERCE - MARKETING SPECIALISATION

Subjects to be taken from the following list after discussion and approval from the MCom Marketing director:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<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>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>
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<tr>
<td>MGMT967</td>
<td>Quantitative Methods</td>
<td>6</td>
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<tr>
<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MARK977</td>
<td>Research for Marketing Decisions</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>
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<tr>
<td>MARK956</td>
<td>New Product Marketing</td>
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<tr>
<td>MARK957</td>
<td>International Marketing Strategy</td>
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</tr>
<tr>
<td>MARK970</td>
<td>Contemporary Issues in Services Quality</td>
<td>6</td>
</tr>
</tbody>
</table>

Specialisation Director: Mr J P Scott.

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.

2. HONOURS MASTER OF COMMERCE

(i) 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 the honours standard any one of the following courses of study:

(ii) A combination of thesis and coursework as approved by the Head of Department, Management, which fulfills 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

Subjects aggregating not more than 12 credit points may be selected from those offered by her Departments, where approval is given the Heads of the respective Departments (i.e. 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 his 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.

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 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 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 Program Director. 24 credit points of this undergraduate course work must be taken at the 300-level.

SUBJECT DESCRIPTIONS

Where textbooks and subject Co-ordinators are not specified, details will be provided at a later date.

MARK922 Marketing Management 6 credit points (3 hrs per wk).
Assessment: case studies, essays, examination.

The subject examines the contemporary view of marketing and focuses on the following areas: identification of marketing opportunities; segmentation and target marketing; pricing decisions; service marketing; international marketing

MARK935 Marketing Planning and Strategy 6 credit points (3 hrs per wk).
Pre-requisite: MARK922.
Assessment: case studies, presentations and examination.

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.

Co-ordinator: Dr M Cicic

MARK936 Consumer Behaviour 6 credit points (3 hrs per wk).
Pre-requisite: MARK922 or equivalent.
Assessment: group project, assignment, final examination.

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.

Co-ordinator: Dr C Hill

MARK937 Relationship Marketing and Communications 6 credit points (2 hrs lectures/seminars per wk).
Pre-requisite: MARK922.
Assessment: case studies and essays.

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; evaluation of promotional effectiveness of promotion. This subject only available to MCom students.

Co-ordinator: Mr P Scott

MARK938 Managing Services Marketing 6 credit points (3 hrs lectures per wk).
Pre-requisite: MARK922 or equivalent.
Assessment: assignment, class presentation, examination.

This advanced course is designed to provide an in-depth analysis of the problems facing services marketing managers in both consumer and business-to-business service firms. 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; Application of Consumer Decision Models to Service Marketing; Role Theory Perspectives on Dyadic Interactions; Dimensions of Service Quality; Services Marketing Mix: Growth Strategies for Service Firms; Marketing Implementation

MARK939 Contemporary Issues in International Marketing 6 credit points (3 hrs per wk; lectures/seminars).
Pre-requisite: MARK922 or equivalent.

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 contexts, and the role of government in international marketing.

Co-ordinator: Dr S Banerjee

MARK940 Special Topic in Marketing A 6 credit points.
Assessment: seminars, case studies, essays and examination(s).

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.

MARK945 New Product Marketing 6 credit points (3 hrs per wk).
Pre-requisite: MARK922 or equivalent
Assessment: seminars, case studies and examination(s).

The subject will be taught in two parts. The first part will involve critical analysis of certain concepts that can be used to obtain a deeper understanding about the nature of products. This includes product life cycle, segmentation, product positioning and the product portfolio concepts. The major emphasis of the subject will be placed on the second part which will be concerned with the new product development process. This process will be examined in detail and special consideration will be given to new industrial products. In essence, the subject will be concerned with the question of how to reduce the risk of new product failure.

MARK956 New Product Marketing 6 credit points (3 hrs per wk).
Pre-requisite: MARK922 or equivalent
Assessment: seminars, case studies and examination(s).

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.

MARK957 International Marketing Strategy 6 credit points (3 hrs lecture/seminar).
Pre-requisite: MARK922.
Assessment: class participation, two essays and final examination.

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.

MARK970 Contemporary Issues in Services Quality 6 credit points (3 hrs per wk).
Pre-requisite: MARK938 and not applicable to TQM students.
Assessment: critique of academic literature, case presentations, assignments.
This advanced course is designed to follow on from MARK938 (Managing Services Marketing). It 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
6 credit points (3 hrs per wk).
Assessment: seminars, essays and examination
Pre-requisite: MARK922. If students have not studied Quantitative Methods in their previous undergraduate work, it is strongly recommended that MARK967 is taken prior to, or concurrently with MARK977.

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.

Co-ordinator: Dr S Banerjee
FACULTY OF
CREATIVE ARTS
FACULTY OF CREATIVE ARTS

FACULTY OFFICE

Dean: Professor Sharon Bell
Associate Dean: Associate Professor Andrew Schultz (Research and Postgraduate)
Sub Dean: To be advised.
Faculty Officer: Ms Olena Cullen (042) 214621
Dean’s Assistant: Ms Mary Street (042) 213985

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

Postgraduate programs are available in the Faculty in the following areas:

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<td>Theatre</td>
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<td>Visual Arts</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 the method of presentation of any unit of study, or to withdraw any unit or course of study which offers, or impose limitations on enrolment in any unit or course as a result of resource limitations or for any other reason.
FULL TIME STAFF

Dean
Professor Sharon Bell, BA PhD Syd

Associate Dean
Associate Professor Andrew N Schultz, BMus PhD Q'ld, MMus Lond

Sub-Dean
To Be Advised

Faculty Officer
Olena Cullen, BA DipEd

Dean's Assistant
Ms Mary Street

Associate Professor
Ronald K Pretty, BA MA Syd, Assoc Inst Ed Lond

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

Lecturers
Merlinda Bobis, BA MA Manila, DCA
Gregor Cullen, DipArt Alex Mackie
Wayne Dixon, AMusA, LTCL, MA
Houston Dunheavy, BA BMus Melb, MM(Comp) MM(Choral Cond) Cleveland, PhD Buffalo
Frances Dyson, BA ANU, PhD UTS
Ian Gentle, DipArt Alex Mackie, MCA
Clem Gorman, DipArts Admin Lond Cent Poly, BA Syd
Janya Hayes, BSc Melb, DipAct Drama Centre Lond
Richard Hook, BA WAust, PostGradCertEd Lond, MFA Tas
Jeff Kevin, Dip Act PG Act NIDA, MCA
Marilyn Meier, BMus (Hons) Art Dip Cincinnati, Diplom Mozarteum, DCA
Leonie Molloy, BFA Syd Coll Arts, MA
Ken Orchard, BAFA South Aust Coll, MAFA Syd Coll of Arts
John A Scott, BA DipEd Monash
John Senczuk, DipDesign NIDA
Jelle van den Berg, Dip Ed HerremoenAcP, Art Cert GroningenAcP, Grad Dip Art GroningenAcVisArts
Diana Wood Conroy, BA Syd, DCA

Professorial Fellow
Herbert Flugelman

Director Permanent Collection
Guy Warren

Administrative Assistants
Jenny Fullerton
Sheila Hall
Jenny Railings, TDipT

Technical Staff Co-ordinator
Kevin Bowley, Mgt Cert W'gong TAFE

Technical Officers, Theatre
John Hamilton
Simon Luckhurst

Technical Officer, Visual Arts
Michael Young, AssocDipMusicology, BCA

GRADUATE SCHOOL OF JOURNALISM

Head and Professor
Clement Lloyd, BA BEc Syd, BLegSt Macq, MA PhD ANU, AO

Senior Lecturer
Eric Loo, BA BComm Malaysia, MA Uni of Philippines

Lecturer
David Blackall, DipApplSc CSU, DipEd MA(Jour)

Technical Officer
Vicky Wallace, MA(Jour)

Administrative Assistant
Lorraine Lynch

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
Leon Paroissien, Director, Museum of Contemporary Art
Keith Yates, retired Technical Manager, Sydney Opera House
CREATIVE ARTS

COURSES OFFERED

The following postgraduate courses are available in Creative Writing, 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
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**
  - 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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<td>CREA930</td>
<td>Doctoral Presentation Creative Arts</td>
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POSTGRADUATE SUBJECTS leading to the Master of Arts (Honours)

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<td>Masters Thesis Creative Arts</td>
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<tr>
<td>CREA921</td>
<td>Preliminary Topics in Creative Arts</td>
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POSTGRADUATE PROGRAM IN CREATIVE WRITING leading to the Master of Creative Arts

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<td>WRIT913</td>
<td>Major Presentation - Writing</td>
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<tr>
<td>WRIT910</td>
<td>Analysis of Texts</td>
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<tr>
<td>WRIT911</td>
<td>Literary Composition</td>
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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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<tbody>
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<td>Major Presentation - Music Performance</td>
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<tr>
<td>MUS910</td>
<td>Minor Thesis Music</td>
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<tr>
<td>MUS912</td>
<td>Studies in Performance Technique</td>
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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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<td>Major Presentation - Music Composition</td>
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<tr>
<td>MUS910</td>
<td>Minor Thesis Music</td>
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</tr>
<tr>
<td>MUS915</td>
<td>Studies in Composition Technique</td>
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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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<td>THEA913</td>
<td>Major Presentation - Theatre</td>
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<tr>
<td>THEA910</td>
<td>Theatre Analysis</td>
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<td>THEA911</td>
<td>Advanced Techniques in Theatre</td>
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For further details, see Course Requirements below.

POSTGRADUATE PROGRAM IN VISUAL ARTS
leading to the Master of Creative Arts

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<th>Subject</th>
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<tbody>
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<td>VIS913</td>
<td>Major Presentation - Visual Arts</td>
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<tr>
<td>VIS910</td>
<td>Visual Arts Theory</td>
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<tr>
<td>VIS911</td>
<td>Minor Thesis Visual Arts</td>
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</tbody>
</table>

For further details, see Course Requirements below.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY
The Doctor of Philosophy (PhD) is based on submission of a scholarly thesis.

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 Bachelor degree with Honours Class II, Division 1, or higher or possess equivalent qualifications and be able to demonstrate evidence of high artistic attainment. As a guide, students completing the Master of Creative Arts will need to achieve a High Distinction average to be considered for entry to the DCA. 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.

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 have a relevant Bachelor degree with Honours Class II, Division 1, or higher or possess equivalent qualifications and be able to demonstrate evidence of high artistic attainment. As a guide, students completing the Master of Creative Arts will need to achieve a High Distinction average to be considered for entry to the DCA. 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. In some circumstances, outstanding arts practitioners without the required formal qualifications may be allowed to enrol in the degree 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 Master of Arts (Honours) is a research degree that prepares students for entry to a doctoral program. Research areas include music, theatre, writing and visual arts disciplines as previously listed. Candidates may also undertake an interdisciplinary study or a study of the relationships of more than one of these areas.

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 a relevant Bachelor degree with Honours Class II, Division 1, or higher, or possess equivalent qualifications.

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 at the pass masters level. It normally consists of 48 credit points consisting 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.

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 normally 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 normally have professional experience in their chosen area of study.

**SUBJECT DESCRIPTIONS**

**CREA920 Masters Thesis Creative Arts**
*Double session (A); 48 credit points per year*
Assessment: by two external assessors.
Submission will be in the form of:
- a) scholarly thesis; or
b) scholarly thesis combined with creative work.
The exact nature of each submission will vary subject to the student's educational and professional background and will be negotiated in consultation with the supervisor and the Associate Dean (Research and Postgraduate).
Co-ordinator: Associate Professor A Schultz.

**CREA921 Preliminary Topics in Creative Arts**
*Double session (A); 48 credit points*
Assessment: by two internal assessors.
In this preparatory subject students will undertake a combination of essays and presentation or performance of creative work. The program of study will be decided in consultation with the supervisor and the Associate Dean (Research and Postgraduate).
Co-ordinator: Associate Professor A Schultz.

**CREA930 Doctoral Presentation Creative Arts**
*Double session (A); 48 credit points per year*
Assessment: by two external assessors.
The submission for the DCA will normally be by exhibition, performance or publication of creative work in the area of specialisation, supported by written documentation focusing on such aspects as origins of the work, structures and techniques used, and artistic theories underpinning the work. It may be appropriate to support written documentation with documentation in other forms, for example, photographic material or sound and video recordings. Students presenting their work by exhibition or performance are required to present their dissertation for examination no later than three months after the final performance or exhibition. Students presenting their work by folio or similar means should present their dissertation and folio in one submission.
Co-ordinator: Associate Professor A Schultz.

**CREA940 Doctoral Thesis Creative Arts**
*Double session (A); 48 credit points per year*
Assessment: by two external assessors.
The Doctor of Philosophy is normally examined on the basis of a scholarly thesis in an approved area of research. However, students may use creative work to illustrate the written thesis. In some cases, with the approval of the Associate Dean (Research and Postgraduate), a student may be permitted to submit for assessment work combining a scholarly thesis and creative work.
Co-ordinator: Associate Professor A Schultz.

**MUS914 Major Presentation-Music Composition**
*Double session (A); 24 credit points*
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 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 for 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 Associate Dean (Research and Postgraduate).
Co-ordinator: Mr D Vance.

**MUS915 Studies in Composition Technique**
*Autumn, Spring or Double (A) session; 12 credit points*
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 participate in a performance seminar and will participate, where requested, in Faculty ensembles.
Co-ordinator: Mr D Vance.

**MUS913 Major Presentation-Music Performance**
*Double session (A); 24 credit points*
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 coordinator. A portfolio of at least four compositions, including one major work for large ensemble; sketches, tapes and other supporting material; analytical commentaries on the works submitted – approximately 2,000 words.
Detailed annotations for both the concerto and recital presentation – approximately 2000 words – should be submitted.
Under normal circumstances students will receive 21 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 Associate Dean (Research and Postgraduate).
Co-ordinator: Dr H Dunlevy.

**THEA910 Theatre Analysis**
*Autumn, Spring or Double (A) session; 12 credit points*
Assessment: by two internal assessors and will consist of two 5,000 word essays.
This course 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 methods of research. All work must be submitted by the last teaching week of session.

Co-ordinator: Dr I McGrath.

THEA911 Advanced Techniques in Theatre
Autumn, Spring or Double (A) session; 12 credit points
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 course with the emphasis upon developing and refining techniques. All work must be submitted by the last teaching week of session.

Co-ordinator: Dr I McGrath.

THEA913 Major Presentation-Theatre
Double session (A); 24 credit points
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 or costume design, and lighting. 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 Associate Dean (Research and Postgraduate).

Co-ordinator: Dr I McGrath.

VIS910 Visual Arts Theory
Autumn, Spring or Double (A) session; 12 credit points
Assessment: by two internal assessors and will be by presentation of two essays of approximately 4000 words each on topics related to the seminar series and after consultation with the lecturer. This subject aims to explore contemporary arts practice and theory in order that students may place their own work within the broader contexts of arts practices, and the debates and developments in the visual arts and cultural theory.

Co-ordinator: Dr D Wood Conrony.

VIS911 Minor Thesis Visual Arts
Autumn, Spring or Double (A) session; 12 credit points
Assessment: by two internal assessors and will be by a 10,000 word analytical dissertation with appropriate visual material such as photographs, slides or video presentation. In consultation with their supervisor students will prepare a documentation of their creative work-both preparatory work and the final work selected for the major presentation. This will show an analysis of the processes, experimentation, materials and content of the work. It will contextualise the work within its field and should address related theoretical issues and analyse the work of other artists considered relevant.

Students will be expected to work at an advanced level and with a high degree of independence in their chosen studio discipline. They will consult with their supervisor on a regular basis. The thesis will be submitted by the last teaching week of the session. Two suitably presented and bound copies of the thesis will be retained by the Faculty.

Co-ordinator: Dr D Wood Conrony.

VIS913 Major Presentation-Visual Arts
Double session (A); 24 credit points
Pre or Co-requisite: VIS910 and VIS911
Assessment: by one internal and one external assessor.
Students will present a substantial exhibition of work that reflects technical skill, knowledge and use of materials, and an ability to develop, sustain and execute original ideas in a cohesive and thematic way.
Preparation of the major presentation should occupy students for at least four hours per day for the period of enrolment. As an example of content, painters should submit at least eight major pieces plus drawings and supporting material of exhibitable standard. Equivalent workloads will be expected of students working in other areas of the visual arts.

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 Associate Dean (Research and Postgraduate).

Co-ordinator: Dr D Wood Conrony.

WRIT910 Analysis of Text
Autumn, Spring or Double (A) session; 12 credit points
Assessment: by the subject coordinator. Students will present three seminars on topics decided upon in consultation with their supervisor. After the seminar, each presentation will be written up and handed in within three weeks of presentation, in the form of an essay of approximately 3,000 words.

In fortnightly seminars students will undertake a detailed study of relevant texts in the student's area of specialisation, which may be in poetry, prose fiction or scriptwriting. The course aims to develop and refine the ability to trace in detail the relationships between the effects gained by a text and the techniques of writing used to achieve them. To some extent the course will resemble advanced literary criticism, except that the emphasis will be on the techniques used by the writer rather than the reader's response.

Co-ordinator: Associate Professor R Pretty.

WRIT911 Literary Composition
Autumn, Spring or Double (A) session; 12 credit points
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 writing. 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.

Co-ordinator: Associate Professor R Pretty.

WRIT913 Major Presentation-Creative Writing
Double session (A); 24 credit points
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(s), 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 Associate Dean (Research and Postgraduate).

Co-ordinator: Associate Professor R Pretty.
**JOURNALISM**

**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 Arts (Honours) (Journalism) by Coursework
4. Master of Arts (Journalism) by on-campus coursework and by distance education
5. Graduate Certificate in Multicultural Journalism by on-campus coursework and distance education

**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 offered by the Graduate School of Journalism through the Office of Postgraduate Continuing Education are not listed in this Calendar. For information on these distance education courses, please contact the OPCE consortium at the University of Wollongong, or the Graduate School of Journalism Office.

**SCHEDULE OF PROGRAMS**

**POSTGRADUATE PROGRAM IN JOURNALISM**

leading to the Graduate Certificate (in Multicultural Journalism), Master of Arts or Master of Arts (Honours) (Journalism) by coursework.

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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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**COURSE REQUIREMENTS**

1. **DOCTOR OF PHILOSOPHY**
   
   Candidates for this degree enrol in JOUR999.

2. **MASTER OF ARTS HONOURS (JOURNALISM) BY RESEARCH**
   
   Candidates for this degree enrol in JOUR999.

3. **MASTER OF ARTS HONOURS (JOURNALISM) BY COURSEWORK**
   
   Candidates for this degree enrol in JOUR992.

4. **MASTER OF ARTS (JOURNALISM)**

   1. The purposes of the Master of Arts in 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 attainments 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 Professor of Journalism, who may prescribe an advanced standing;
      (b) pass students are required to complete successfully a program of studies approved by the Professor of Journalism which must total 72 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 Professor of Journalism 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 Professor of Journalism, and the relevant Faculties and Departments, students may also take a maximum of three subjects from other postgraduate and undergraduate courses where it can be shown that this will assist in the development of specialist skills in journalism.

   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 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 JOUR903 Journalism Ethics and Standards, JOUR933 Journalism Research and Investigation, JOUR949 Multicultural Journalism and, except where advanced standing has been given, one of the following three subjects: JOUR901 News and Feature Writing, JOUR931 Radio Journalism and JOUR932 Television Journalism. 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 substantial professional experience in either print, radio or television journalism.

**SUBJECT DESCRIPTIONS**

JOUR901 News Writing

Autumn session; 6 credit points (3 hrs newsroom work a wk plus practical work).

Assessment: written assignments and practical work.

This subject develops news and feature writing skills from basic news stories to extended feature writing for newspapers and magazines. Attention will also be given to subjective aspects of news and feature writing, including the use of comment and opinion; colour stories;
JOUR902 Journalistic Method and Practice
Autumn session; 6 credit points (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 content, notions of news value, the conventions of news sources, and the structure of news gathering. It introduces students to the initiation and conduct of a news assignment, the structure and conventions of a news round, use of recording devices, checking stories, interviewing techniques, working with photographers and camera teams, presentation of news copy, follow-ups, competition and co-operation in news gathering, news management and news manipulation.
Textbooks:
Graduate School of Journalism Course Materials.
Co-ordinator: Mr E Loo.

JOUR903 Journalism, Ethics and Standards
Autumn session; 6 credit points (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 Australian Journalists' Association's 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.
Textbooks:
Graduate School of Journalism Course Materials.
Co-ordinator: Mr E Loo.

JOUR904 Journalism, History and Structure
Autumn session; 6 credit points (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.
Textbooks:
Graduate School of Journalism Course Materials.
Co-ordinator: Professor C Lloyd.

JOUR905 Specialist Journalism 1
Spring or Summer session; 6 credit points (3 hrs lectures and project work).
Assessment: practical assignments and project.
This subject offers a range of options in specialist areas of journalism. It is designed to complement and amplify preliminary courses which cover broader aspects of news gathering and presentation. Specialist areas dealt with include: environmental journalism; science and technology journalism; public affairs journalism; arts journalism; lifestyle and leisure journalism; economics and business journalism; sports journalism. 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 below.
Textbooks:
Graduate School of Journalism Course Materials.
Co-ordinator: Professor C Lloyd.

JOUR906 Specialist Journalism 2
Autumn or Summer session; 6 credit points (3 hrs lectures and 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.
Textbooks:
Graduate School of Journalism Course Materials.
Co-ordinator: Professor C Lloyd.

JOUR931 Radio Journalism
Spring session; 6 credit points (3 hrs lectures, 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 the School's radio studio.
Textbooks:
Co-ordinator: Mr D Blackall.

JOUR932 Television Journalism
Autumn session; 6 credit points (3 hrs lectures, 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 in the field.
Textbooks:
Co-ordinator: Mr D Blackall.

JOUR933 Journalism, Research and Investigation
Autumn or Spring session; 6 credit points (3 hrs lectures and practical work).
Assessment: written 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.
Textbooks:
Graduate School of Journalism Course Materials.
Co-ordinator: Professor C Lloyd.

JOUR934 Print Production and Publication
Autumn session; 6 credit points (3 hrs lectures and workshop production).
Assessment: written assignments and workshop assessment.
This subject provides advanced skills in copy editing, production techniques, manipulation of equipment and software, and typesetting and desktop publishing applications.
Textbooks:
Graduate School of Journalism Course Materials.
Co-ordinator: Mr E Loo.

JOUR936 International Journalism
Autumn or Spring session; 6 credit points (3 hrs lectures and seminars).
Assessment: assignments and one hour examination in class.
This subject comprises three parts: (a) the organisation and technology of international news gathering; (b) a comparative account of the organisation of news gathering in other countries, particularly the nations of East and South Asia and the Pacific; and (c) news coverage of limited conflict.
Textbooks:
Co-ordinator: Mr E Loo.
JOUR942 Current Affairs Journalism
Autumn or Spring session; 6 credit points (3 hrs lecture/field work).
Assessment: assignments and field work.
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 specialization in one of the three media areas. Textbook: No set text.
Co-ordinator: Mr D Blackall.

JOUR943 Directed Readings in Journalism
Autumn, Spring and Summer sessions; 6 credit points (1 hr tutorial, directed reading).
Assessment: tutorial paper and major written evaluation 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: the journalism of Colonial Australia; 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. Textbooks: There are no prescribed textbooks. Reading lists will be issued according to topics chosen.
Co-ordinator: Professor C Lloyd.

JOUR945 Applied Journalism Project
Autumn, Spring and Summer sessions; 6 credit points (one hour tutorial, 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. Textbooks: No set text.
Co-ordinator: Professor C Lloyd.

JOUR948 News Design
Spring or Autumn session; 6 credit points (3 hrs lecture/field work).
Assessment: assignments and publications.
This subject provides practical instruction in imaging, graphics and design applicable to print news media. Students are instructed in the latest digital software for producing print news materials.
Textbooks: Graduate School of Journalism Course Materials.

JOUR949 Multicultural Journalism
Spring or Autumn session; 6 credit points (3 hrs lecture/field work per wk).
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.
Textbooks: Graduate School of Journalism Course Materials.
Co-ordinator: Mr D Blackall.

JOUR954 Journalism and Multi-media
Spring or Autumn session; 6 credit points (3 hrs lectures, practical and laboratory work).
This subject prepares journalists for the impact on 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 interactive multi-media to news gathering, news delivery, and news presentation.
Textbook: Graduate School of Journalism Course Materials.
Co-ordinator: Mr D Blackall.

JOUR955 Journalism and the Law
Autumn session; 6 credit points.
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.
Co-ordinator: Professor C Lloyd.

JOUR956 On-Line Journalism
Spring or Autumn session; 6 credit points (3 hrs instruction and project work).
Assessment: assignment and project.
This subject introduces students to news research and production on the Internet and the World Wide Web (WWW). Projects will include publishing of home pages, on-line magazines and newspapers. Students will learn to link specific Web resources, navigate WebSpace, use a variety of searching tools, and apply principles of page design to publishing on the Web. Content will also cover on-line information networking, editorial framing and composition for on-line presentation, typography and graphic design for on-line publications. The subject aims to expand the definition of print editorial design to include presentation in on-line format and provide a basis for the critical examination of existing and future non-print news media.
Textbooks: Graduate School of Journalism Course Materials.
Co-ordinator: Mr E Loo.

JOUR961 Community Journalism
Autumn or Summer sessions; 6 credit points (3 hrs lectures and project work).
Assessment: assignments and project work.
This subject offers a theoretical and practical introduction to the role of the journalist as a mediator in the community and in the production of community news material. It aims to develop in students a critical understanding of their community functions and responsibilities and to identify ways in which they can assist in adapting new technologies and skills for community usage and enhancement. Finally, it looks at ways in which communities acquire access to media production facilities and how they may use these facilities most effectively in the production of news material at the community level.
Textbooks: Graduate School of Journalism Course Materials.
Co-ordinator: Mr E Loo.

JOUR963 Major Journalism Project
Autumn, Spring and Summer sessions; 12 credit points (supervised research and field work).
Assessment: two interim reports and major research or fieldwork report.
This subject is designed to give students the opportunity to undertake either a major research project or substantial supervised practical work. In particular, it allows students to take an employment placement or internship in a news media or related area. Such placement should generally have a minimum duration of three to four weeks. Students undertaking such placement or internship are required to submit detailed records and assessments of their work experience, supported by certificates of verification from news media or related agencies. Research projects should be linked directly to subject areas represented in the journalism schedule, and may include essay, visual, sound and multi-media components.
Textbooks: No set text.
Co-ordinator: Professor C Lloyd.
The Faculty of Education

FACULTY OFFICE

Dean: Associate Professor John Patterson
Associate Dean: Associate Professor John Hedberg
Associate Dean: Dr Nita Temmerman
Sub Dean: Ms Yvonne Kerr
Faculty Executive Officer: Ms Jan James (042) 21 3572
Administrative Assistant: Ms Jacqui Collins (042) 21 3961

Graduate School of Education:
Head: Associate Professor John Hedberg
Professional Officer: Ms Debbie McGavin (042) 21 3578
Administrative Assistant: Ms Bev Sheen (042) 21 3316

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

Postgraduate coursework programs are available in the Faculty in the following areas:

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The University attempts to ensure that information contained in this publication is up to date at the time of printing. However, 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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Professor Shirley Grundy, Faculty of Education, Murdoch University, Western Australia and Chair of AARE
Dr Terry Burke, Deputy Director-General, NSW Department of School Education, Sydney

Mr Alan Ruby, Deputy Secretary, Department of Employment, Education and Training, Canberra
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. Graduate Certificate in Adult Career Development
7. Graduate Certificate in Computer-Based Learning
8. Graduate Certificate in Environmental Education
9. Graduate Certificate in Gifted Education
10. Graduate Certificate in Higher Education
11. Graduate Certificate in History Education
12. Graduate Certificate in Literacy
13. Graduate Certificate in Special Education
14. Graduate Certificate in TESOL
15. Graduate Diploma in Adult Education and Training
16. Graduate Diploma in Education
17. 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.

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 1997 it is expected that the major Programs will be as follows:

- Adult Education and Training
- Curriculum Development and Evaluation
- Early Childhood Education
- Education Policy and Planning
- Information Technology in Education and Training
- Education Leadership
- Language and Literacy
- Physical and Health Education
- Special 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 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 1997. 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
Social and cultural context of education
Special education
Talented and gifted education
Research Programs and Groups are the University's major mechanism for fostering research. The University Research Program structure was reviewed at the end of 1994 and the School received strong support to continue to focus its research in the areas indicated by the three Research Programs.

These are:
- the Centre for Educational Policy and Performance Technology Research (Co-ordinator: Professor Carla Pasano): CEPPTTR pursues a wide range of research activities into policy and planning issues in Australia, the Asia Pacific region and OECD countries. In addition, the Center has a strong focus on policies and strategies related to information technology in education and training, particularly through the applications of interactive multimedia;
- the Research Group, Social Literacy (Co-ordinator: Dr Bill Winser) researches all areas concerned with first and second language learning and teaching, including literacy development, functional language and discourse studies in education, language curricula and the role of language in school and other social environments, and examines the variables involved in access to educational and social opportunities;
- 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 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 designed for those students already qualified in Education and the Head of the Graduate School to ensure that the coursework component of the program does not duplicate 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) Curriculum and Evaluation

The coursework component of a Doctorate of Education in the Program of Curriculum consists of:

(i) at least four subjects chosen from the Curriculum Program in line with the requirements listed in "Patterns of Study". These subjects are listed below:

EDGA910 Curriculum in a changing context
EDGA911 Managing curriculum change
EDGA913 Program evaluation
EDGA915 Qualitative Probing and teaching
EDGA917 International and intercultural perspectives
EDGA918 Environmental education: Pedagogy and curriculum perspectives
EDGA919 Advanced studies in the Key Learning Areas

(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:

EDGA970 Early language and literacy development
EDGA987 Children's literature
EDGA971 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
EDGA986 Literacy in later childhood and adolescence
EDGA966 Educational leadership and management

(3) Education Policy and Planning

The coursework component of a Doctorate of Education in the Program Area of Policy and Planning consists of:

(i) at least four subjects chosen from the Policy and Planning Program in line with the requirements listed in "Patterns of Study". These subjects are listed below:

EDGA960 Foundations of policy studies
EDGA961 Policy research and policy analysis
EDGA964 Educational management and administration
EDGA966 Educational leadership and management

(4) 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
EDGA960 Foundations of policy studies
EDGA911 Managing curriculum change
EDGA913 Program evaluation
EDGA915 Quality learning and teaching
EDGA917 International and intercultural perspectives

(5) Information Technology in Education

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:

EDGA991 Instructional Design
EDGA992 Psychology of Adult Learning

(6) Language and Literacy

The coursework component of a Doctorate of Education in the Program of Language and Literacy 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:

EDGA976 Text and Context
EDGA937 Approaches to reading difficulties
EDGA966 Educational leadership and management

(7) Physical and Health Education

The coursework component of a Doctorate of Education in the Program of Physical and Health Education 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
EDGA925 Theory and practice of outdoor education and recreation
EDGA927 Facilitation techniques in outdoor education
EDGA928 Issues in coach education and administration

(8) 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
EDGA989 Language and communication in exceptional populations

(ii) Recommended elective subjects include:
- EDGA970 Early language and literacy development
- EDGA978 Literacy practices for diverse needs
- EDGA966 Educational leadership and management

(9) 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
- 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 management
- 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 EDI 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

EDGA908 Directed Study in Education III

and

EDGA904 24 credit point thesis;

Each DirectEd Study subject is an 8 credit point individualised program of study in an area supporting the 24 credit point thesis. Students will generally replace a Directed Study subject with subject(s) chosen from the Master of Education (Pass) schedule, in consultation with their supervisor(s) and the Head of the Graduate School. (See section 2 above) to satisfy the entry requirements for higher degree study.

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 whose credit point value is 48 together with satisfactory completion of coursework subjects to the value of 24 credit points prior to commencing thesis.

3. 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.

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 orientation for educators, and the other pattern has a research orientation for candidates interested in pursuing study beyond this degree.

Entry Requirements for the Degree Program

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 together with the following guidelines:

1. To qualify for admission as a candidate for the Master of Education, a student shall have qualified for a Bachelors degree of the
University, or an equivalent qualification from an approved institution, with a major study in Education, provided that the degree or equivalent qualification has a minimum study duration of four years. Other qualifications or substantial professional experience may be considered as meeting these requirements and should be discussed with the 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. 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 specialisation). The core of subjects to be covered to complete a specialisation will vary from Program to Program.
   and up to
      (c) 16 credit points of electives (2 subjects each of 8 credit points) chosen from any Program. The amount of choice available will vary from Program to Program.
   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) 8 credit points of advanced studies in qualitative or quantitative research methods (either EDGA901 Advanced Qualitative Research Methods or EDGA902 Advanced Quantitative Research Methods) and
      (c) at least 24 credit points (at least 3 subjects each of 8 credit points) from a single Program. The core of subjects to be covered to complete a specialisation will vary from Program to Program.

   and
   (d) EDGA903 Minor Project in Education (8 credit points) in the same Program.

2. Students who have completed an MEd degree in the professional development orientation may proceed to MEd(Hons), provided they meet the program requirements for students who do not have a research component in the MEd (see MEd(Hons) entry requirements).

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 1997. 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.

A specialisation in this Program requires the completion of at least 3 subjects chosen from the revised Program. The list of subjects is subject to change and must be approved by the Program 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: Curriculum Development and Evaluation
EDGA910 Curriculum in a changing context*
EDGA911 Managing curriculum change
EDGA913 Program evaluation
EDGA915 Quality learning and teaching
EDGA917 International and intercultural perspectives
EDGA918 Environmental Education: Pedagogy and Curriculum Perspectives
EDGA919 Advanced Studies in the Key Learning Areas

*Compulsory subject for students wishing to complete a major specialisation in Curriculum and Evaluation.

A specialisation in this Program requires the completion of at least three subjects. Normally these subjects will be chosen from the Curriculum Development and Evaluation Program. Variations must be approved by the Program Co-ordinator (Dr Ted Booth). 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 new programs are developed.

EDGA970 Early language and literacy development
EDGA987 Children's literature
EDGA97I Assessment and evaluation of language and literacy
EDGA937 Approaches to reading difficulties
EDGA947 Giftedness in special populations

Program: Education Policy and Planning
EDGA960 Foundations of policy studies*
EDGA961 Policy research and policy analysis*
EDGA964 Educational management and administration
EDGA966 Educational leadership and management

*EDGA960 and EDGA961 are compulsory subjects for students wishing to complete a major specialisation in Educational Policy and Planning. In addition to these two compulsory subjects, students choose one other subject from the list to complete 24 credit points.
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
EDGA961 Policy research and policy analysis
EDGA964 Educational management and administration
EDGA966 Educational leadership and 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: Language and Literacy Education
EDGA976 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
EDGA978 Literacy practices for diverse needs
EDGA986 Literacy in later childhood and adolescence
EDGA987 Children’s literature
EDGA989 Adult Literacy
*Compulsory subject for students wishing to complete a major specialisation in Language and Literacy. A specialisation in this Program requires the completion of three subjects chosen from the Language and Literacy Education Program.

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 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

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
EDGA989 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*
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 Certicate in School Leadership and Management, or Certicate of Special Education(Integration)*, or Certificate of Faculty Administration* or Collaborative Learning and Reflective Practice*, or Computing Studies Intensive Methodology Course (KSSD)* 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 (UNSW 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

*Accreditation of these courses requires completion of an extended assessment leading to a relevant Program Co-ordinator for details.

Specialisation requirements must still be
met by the candidate, ie. normally this credit cannot be substituted for a compulsory subject within a program, or form part of a specialisation within a program. 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 from list 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.

B. GRADUATE CERTIFICATES

6. GRADUATE CERTIFICATE IN ADULT CAREER DEVELOPMENT

This is a specialised course aimed at those working with the development of adult careers. The course is offered on a full-fee basis in a self-study open-learning format, with many of the materials available on Macintosh or windows CD-ROM disk. It consists of three subjects:

EDGA998 Career management and organisation
EDGA990 Career development and support
EDGA836 Practicum and project

7. 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 (ie a three year degree or equivalent). The Graduate Certificate in Computer-Based Learning comprises 24 credit points chosen as follows:

EDGA950 Information technology and education and training and
EDGA958 Instructional strategies and authoring
plus one other subject 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 Coordinator.

8. 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, 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.

The Graduate Certificate in Environmental Education comprises 24 credit points (three subjects):

EDGA991 Instructional Design
EDGA918 Environmental Education: Pedagogy and Curriculum Perspectives
ENVI920 Scientific Basis of Environmental Management

10. 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 education
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.

11. GRADUATE CERTIFICATE IN HISTORY EDUCATION

The Graduate Certificate in History Education is a professional development course for qualiﬁed teachers of History in NSW secondary schools. It focuses on the development of modern inquiry techniques and new teaching approaches in History. Candidates for this award complete the following two subjects over one year of study:

EDGA822 New technologies and approaches to learning
HIST934 The re-making of Australian history

12. 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 TESOL program co-ordinator for more details.

Entry is available to candidates who satisfy the University's entry requirements for Graduate Certificates (ie 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 Teaching English to Speakers of Other Languages
EDGA977 Communication and learning

13. 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. The Graduate Certificate is also available as a full-time, distance education program. 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 (ie 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

14. 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 (ie 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

Candidates may then choose one of the following electives:

- EDGA981 Second Language Literacy
- EDGA983 Assessment in TESOL

C. GRADUATE DIPLOMAS

The Graduate Diploma in Education is designed for those seeking a teaching qualification recognised by employers in the NSW Primary and Secondary school systems. (Course details are outlined in Section 16 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 15 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 17 below)

15. GRADUATE DIPLOMA IN ADULT EDUCATION AND TRAINING

The Graduate Diploma in Adult Education and Training is a coursework postgraduate Diploma designed to meet the specific educational development needs of a broad range of adult education practitioners. The course is designed to cover the generic professional skills for all those who work in the training and education of adults in a variety of settings - business, industry, community education, government and private organisations. Candidates will pursue studies in five major subject areas and demonstrate their skills and knowledge in a special project/practicum. The course is designed on the assumption that students undertaking the course will have already obtained their first professional qualification and that their current employment requires that they obtain professional qualifications in the training and development of adults. It may also serve as an alternative form of entry into the Master of Education, which requires a formal background in the discipline of Education.

Advanced Standing

Candidates enrolled in the Graduate Diploma in Adult Education and Training who have completed the BHP in-house program in Curriculum and Instructional Design are eligible for 8 credit points of Advanced Standing specified as EDGA991 Instructional Design.

Advanced standing for other professional development courses may also be available.

Pattern of study

The course will consist of a core of four subjects, EDGA991 Instructional design
EDGA993 Evaluation and assessment
EDGA994 Learning strategies and communication
EDGA906 Practicum and project
plus two electives chosen from EDGA990, EDGA998, EDGA992, EDGA995, EDGA996 or other subjects in the Graduate School Schedule chosen in consultation with the Course Co-ordinator, Dr M Gillett.

16. 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 a 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 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.
17. 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-fee 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:
   - EDUI230 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)

and
   - 8 credit points of Secondary Methods

For those students pursuing primary school methods:

   - EDUC800 Practicum (8 credit points)
   - EDUC801 Learners with Special Needs (6 credit points)
   - EDUC802 Pedagogy (8 credit points)
   - EDUC806 Curriculum Studies (6 credit points)
   - EDUC803 Perspectives in Education A (6 credit points)
   - EDUC804 Perspectives in Education B (4 credit points)
   - EDUC811 Personal Development, Health and Physical Education (4 credit points)

and
   - 8 credit points of Secondary Methods

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.

All subjects are listed in alphanumeric order in the subject descriptions following.

The subjects EDGA900-998 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 or Spring session or Annual (A); 8 credit points (3 hrs tutorial).

Pre-requisite: Students must have completed three subjects in the Grad Dip Adult Ed and Training.

Co-requisite/Pre-requisite: EDGA991, EDGA992.

Assessment: one major report/essay 100%.

The project/practicum allows students to demonstrate their knowledge and performance skills in their work environment. 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 for adult learning programs. The project/practicum is an individually designed and negotiated topic. Some initial meetings will focus on refining ideas and the development of a learning contract proposal. Students would then undertake their project with some help from a nominated supervisor.

Co-ordinator: Dr M Gillett.

EDGA822 New Technologies and Approaches to Learning

Autumn or Spring session or Annual (A); 12 credit points (3 hrs per wk).

Co-requisite: minimum of 12 credit points of study at postgraduate level in a relevant discipline.

Assessment: development of a computer-based project 50%; project report 30%; seminar and paper 20%.

This subject will enhance students' understanding of curriculum design, expertise in the development of information technology-based instructional materials and their implementation and evaluation in classroom settings. The instructional design processes will require students to design systems to allow learners to access and link traditional sources of knowledge. Emphasis will be placed upon the development of related inquiry process skills. These skills include the critical examination, interpretation and evaluation of sources, combined with database techniques to store and retrieve records. Sources will include visual and aural components in addition to traditional text and numerical information. The techniques and processes will emphasise the appropriate matching of instructional strategies with learning outcomes. The information technology component will develop skills and understandings in processes such as scripting, linking data and sources, information navigating, a database construction and multimedia, while focussing upon the metacognitive aspects of learning with the information technology.

Textbooks:
Bell J, Doing Your Research Project, Open University, Milton Keynes, 1989.
EDGA836 Practicum and Project
Autumn or Spring session or Annual (A); 8 credit points (self-study equivalent to 3 hrs tutorial tuition and 2 hr seminar per fortnight).
Pre-requisite: EDGA998 and EDGA990
Assessment: one major report/essay 100%.
Available as full-fee subject only.
This subject is the final subject in the Graduate Certificate in Adult Career Development. It is offered on a full-fee basis in an open-learning format. Students must contact the subject co­ordinator before enrolling. The project/practicum allows students to demonstrate their knowledge and performance skills in their work environment. 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 learning environment. The project/practicum is an individually defined and negotiated topic. Some initial meetings will focus on refining ideas and the development of a learning contract proposal. Students would then undertake their project with some help from a nominated supervisor.
Co-ordinator: Associate Professor J Hedberg.

EDGA900 Introduction to Educational Research
Methodology
Autumn or Spring session; 8 credit points (3 hrs per wk lectures and seminars).
Assessment: 1 major assignment 40%, 2 minor assignments 15% each, 1 examination 30%.
This subject is compulsory for all Master of Education students. Topics to be studied will be chosen from: Principles and Epistemology of Educational Research; Description 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 (quantitative and qualitative); Ethics in Education Research. The subject should be included in the first four subjects studied in an MEd program.
This subject is also available as a self-study module, for students who have difficulty attending the Wollongong campus. A small charge is made to cover the cost of the course materials.
Textbooks:
Co-ordinator: Dr P Harris.

EDGA901 Advanced Qualitative Research Methods
Autumn and Spring session; 8 credit points (2 hrs lecture and 2 hr seminar each fortnight plus one full­day workshop).
Assessment: research proposal or case study and literature review 40%, seminar 20%, critical essay 20%, review of research paper 20% or as negotiated.
An examination of the rationale for the use of the qualitative research paradigm will be undertaken before the details of the research process are discussed. Topics will include: text analysis, action research, role of the ethnographer, ethical issues, data collection and analysis strategies, introduction to NUDIST data analysis software, interpretation of data and the communication of findings.
Textbooks:
Co-ordinator: Dr E Booth.

EDGA902 Advanced Quantitative Research Methods
Autumn session; 8 credit points (2 hrs lecture and 1 hr laboratory per wk).
Assessment: assignments 20%, examinations 80%.
Topics will include: experimental and quasi-experimental designs for research, planning research, sampling, interviewing questionnaires, data processing, personality assessing, attitude measurement, observation and case studies, interpreting results and report writing.
Textbook:
Co-ordinator: Professor K Gannicott.

EDGA903 Minor Project in Education
Autumn or Spring or Double session (A); 8 credit points (3 hrs per wk on a single session basis; lectures and seminars).
Co-requisite: three subjects from the student's area of specialisation.
Assessment: research oriented project.
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 Area Co-ordinator and/or the Head of the Graduate School.
Co-ordinator: Program Co-ordinator.

EDGA904 Minor Thesis
Double session (A); 24 credit points.
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 Thesis
Double session (A); 48 credit points per year.
This is the thesis subject for candidates enrolling in a Major Thesis (MEd(Hons) or PhD), 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 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 Report. 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 or Spring or Double session (A); 8 credit points.
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. Subjects may be selected from the Master of Education schedule of subjects, or negotiated on an individual basis to suit the student's specialisation.
Co-ordinator: Program Co-ordinator.

EDGA909 Doctoral Thesis
Double session (A); 48 credit points per year.
Prerequisite: completion of required coursework at appropriate level.
This is the thesis subject for candidates enrolled in the Doctorate of Education,
EDGA910 Curriculum in a Changing Context

Autumn or Spring session; 8 credit points (1 hr lecture and 2 hr tutorial per wk).

Assessment: 1 major assignment 40%, 2 minor assignments 15% each, short tasks and exercises 30%

An introduction to a number of broad and contrasting approaches to and models of the curriculum and their relation to contemporary curriculum issues. Concepts such as curriculum decision making, school based curriculum development and the common core curriculum, curriculum development and implementation at the global, national and local levels will be examined as they affect education. The subject will focus on curriculum policies and pedagogical practices. The subject will critically examine the range of evaluation approaches which may be applicable in formal educational, non-educational and industrial environments. A range of evaluation models will be reviewed. Each of the models' assumptions and major methodologies will be critiqued in relation to a number of evaluation scenarios. Students will have the opportunity to participate in evaluation simulations and undertake their own evaluation (as part of the subject). Issues to be addressed in the subject will include: QA, accreditation, skill transfer and site based action research. The assessment components will encourage the participants to critically review each phase of the evaluation model selected for specialist study and to critique the overall fit of the approach to the various stakeholders' interests and purposes.

Textbooks:
- Smith, DJ and Lovat, TJ, Curriculum Action on Reflection, Centre for Educational Research and Innovation, 1999.

Co-ordinator: Dr E Booth.

EDGA913 Program Evaluation

Autumn or Spring session; 8 credit points (3 hrs per week lectures and seminars).

Prerequisite: EDGA910.

Assessment: 2 major assignments (30% each), 1 minor assignment (20%)

This subject will critically examine the range of evaluation approaches which may be applicable in formal educational, non-educational and industrial environments. A range of evaluation models will be reviewed. Each of the models' assumptions and major methodologies will be critiqued in relation to a number of evaluation scenarios. Students will have the opportunity to participate in evaluation simulations and undertake their own evaluation as part of the subject. Issues to be addressed in the subject will include: QA, accreditation, skill transfer and site based action research. The assessment components will encourage the participants to critically review each phase of the evaluation model selected for specialist study and to critique the overall fit of the approach to the various stakeholders' interests and purposes.

Textbooks:

Co-ordinator: Dr E Booth.

EDGA914 Quality Learning and Teaching

Autumn or Spring session; 8 credit points (3 hrs per week lectures and seminars).

Prerequisite: EDGA910.

Assessment: 3 major assignments (30% each), 1 minor assignment (20%)

This subject will critically examine the range of learning theories in contemporary educational theory, policy and practice in the context of schools and their curricula. Participants will critically examine the different learning theories, current curriculum processes and approaches to assessment of learning outcomes, and the influences of learning environments on quality learning and teaching. The literature on school improvement and schools as learning organisations will be examined and 'best practice' approaches to the enhancement of learning outcomes will be critically evaluated. In relation to these studies, participants will reflect critically on the impact on learning communities of changing instructional needs and the introduction of new information technology. A range of developments in instructional methodologies will be examined, including such concepts as cooperative learning, accelerated learning, reflective learning and, interactive multimedia teaching and learning strategies.

Textbooks:

Co-ordinators: Dr C Fox and Dr E Booth.

EDGA917 International and Intercultural Perspectives

Autumn or Spring session; 8 credit points (3 hrs per week lectures and seminars).

Assessment: major paper 40%, seminar presentation 30%, 2 short workshop papers 15% each.

This subject will critically examine curriculum developments and curriculum resources from contemporary international and intercultural perspectives. Topics will include: a comparative view of education in cultural contexts both inside and outside Australia; case studies of teaching and learning in international settings; issues of ethnicity, language and learner participation; global perspectives in curriculum content and resources; critical theories about intercultural communication in education.

Textbooks:

Co-ordinator: Dr C Fox.

EDGA918 Environmental Education: Pedagogy and Curriculum Perspectives

Annual (A,B); 8 credit points (3 hrs per week lectures and seminars).

Methods of Assessment: 2 major assignments totalling 80%, 1 minor assignment 20%

Prerequisites: nil.

This subject explores pedagogical models used by various successful centres for environmental education. It
Critically evaluates the educational research that supports these models and then develops methods for the development, implementation and modification of environmental education programs that are appropriate to the context of the student.

Textbooks: NCEET, Environmental Education: Complete Workshop Resource Manual, University of Michigan, USA, 1994. Set readings will be also be provided from the Australian Journal of Environmental Education, the Journal of Environmental Education and other sources.

Co-ordinator: Mr B Ferry.

EDGA919 Advanced Studies in the Key Learning Areas
Autumn or Spring session; 8 credit points (3 hrs per wk on a single session basis; lectures, seminars, workshops).
Prerequisite: EDGA910 for students specialising in the Curriculum Program; eight credit points in the major specialisation for students from any other Program.
Pre-requisite: EDGA900.
Assessment: Seminar presentation (25%), Review paper (25%) Project report (50%). This subject will require students to identify the factors that are driving current curriculum changes in their Key Learning Area (KLA) and examine these factors in relation to their source and area of impact. 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 the planning, conduct and reporting of an educational investigation about an educational issue in a Key Learning Area.
Co-ordinator: Dr N Temmerman.

EDGA920 Curriculum Problems and Issues in Physical and Health Education
Autumn or Spring; 8 credit points (3 hrs per wk on a single session basis; lectures, seminars, workshops).
Assessment: assignments 60%, examinations 40%.
This subject is concerned with an expansion of the conceptual framework of curriculum theory, planning and instructional design with special application to Physical and Health Education. Specific problems and issues associated with curriculum development in the secondary school will be examined. Textbooks: Journal articles and portions of books will be used in lieu of set text.
Co-ordinators: Dr J Wright.

EDGA921 Studies in the Scientific Bases of Health Education and Health Promotion
Autumn or Spring session; 8 credit points (3 hrs per session on a single session basis).
Assessment: 1 examination 50%, 2 assignments 20% each, 40% Health promotion has progressed through its infancy and is here to stay. The literature on the value of risk factor reduction is substantial and compelling. The purpose of this subject will be to examine epidemiological, physiological and intervention studies related to health promotion and disease prevention. Special emphasis will be given to educational components of health promotion programs and health promotion in educational settings.
Textbooks: Journal articles and portions of books will be used in lieu of set text.
Co-ordinator: Dr J Wright.

EDGA922 Theoretical and Practical Bases of Coach Education
Spring session; 8 credit points (3 hrs per wk). Assessment: seminar presentation 25%, seminar paper 25%, practical assessment 25%, practical field work 25%. Pedagogical issues, time management and overseas developments in coaching will be covered. Students will undertake an in-depth analysis of behavioural coaching, assessment and skill acquisition and begin to coach. A conceptual framework of coaching both in Australia and overseas will be used with practical applications related to practice sessions and the athletic environment.
Textbooks:
2. Other selected primary reference material.
Co-ordinator: Dr P Webb.

EDGA923 Sport, Culture and Education
Spring session, 8 credit points (3hr lecture/seminar).
Co-requisite: EDGA900.
Assessment: seminar presentation and paper 30%, major assignment 20% and minor assignment 50%.
This subject will examine physical education, sport and other physical activities such as dance, as social forms that are produced by and in specific historical and social contexts. The economic, political and cultural forces influencing this production in the present and recent past will be discussed generally and in the context of schooling. As a major social institution, sport contributes to the reproduction of systems of beliefs and practices that constitute a particular culture. In this context the function of sport in maintaining and changing attitudes and practices that relate to class, age, gender and ethnicity will be discussed, particularly in relation to the representations of sport in the media. Various forms of analysis, including text analysis, surveys and interviewing will be examined as they apply to this field of study. Students will be expected to complete at least one assignment that includes primary data collection and analysis.
Textbooks: Journal articles and portions of books will be used in lieu of set text.
Co-ordinator: Dr J Wright.

EDGA924 Adolescent Health Status and Behaviour
Autumn or Spring session; 8 credit points (3 hrs per wk).
Assessment: assignments 60%, examinations 40%.
Adolescence provides a crucial access point for the improvement of health, not only new but in adult life and in the next generation. Health Education is recognised as a valuable means of realising this goal. A necessary precursor to the development of effective health education programs is the understanding of adolescent health status and behaviour and its relationship to the programming task. Subject content, therefore, will include an appraisal of health status and health behaviour patterns among young people. Factors affecting health behaviour will be discussed and models of adolescent health behaviour explored. An investigation of selected health behaviour programs for adolescent groups will be examined.
Co-ordinators: Associate Professor J Patterson and Ms Y Kerr.

EDGA925 Advanced Seminar
Autumn or Spring session; 8 credit points (3 hrs per wk seminars and workshops).
Pre-requisite: EDGA900; one subject of a specialisation completed.
Assessment: 2 seminar presentations 25% each, written paper 50%.
The Advanced Seminar will allow students to evaluate and extend knowledge in a specific area of education. Students will be required to undertake a critical reading program in this area and extend their work by applying their understanding in a school or community based project which integrates the theory and application. Regular seminars will be presented detailing issues, understandings, progress and final outcome.
Co-ordinator: Dr P Webb.

EDGA926 Theory and Practice of Outdoor Education and Recreation
Autumn or Spring session; 8 credit points; 3hrs per wk, lecture/seminar.
Assessment: seminar paper 20%, major project 25%, minor project 10%, fieldwork 25%, log book 20%.
Increasing pressure in urban and contemporary living has placed greater awareness on environmental and outdoor opportunities for educational, community and corporate groups. A variety of learning experiences will be presented which enable students to gain an insight into how Outdoor Education is used as a catalyst for social and personal development and/or environmental sensitivity. Topics include: the philosophy of Outdoor Education; innovations in National Curriculum for Outdoor Education; an exposure to various school programs incorporating Outdoor Education; and an examination of technical skills required in this field. Practical fieldwork experiences on a regular basis also form part of this course.
Co-ordinator: Ms T Gray.
EDGA927 Facilitation Techniques in Outdoor Education

Spring or Autumn Session; 8 credit points (3 hrs week lecture/semimr).
Assessment: Seminar Paper 20%, Major Project 30%, Minor Project 10%, Log Book 40%.
This subject will examine various styles of leadership, administration and management in outdoor education and recreation. Facilitation and processing techniques incorporated into outdoor education programs in a variety of pedagogical contexts will be examined. Specific content will examine the philosophy and methods used in a variety of adventure-based outdoor education programs. Practical fieldwork will be used as a vehicle to integrate theory and practice.

Textbooks:

Co-ordinator: Ms T Gray.

EDGA928 Issues in Coach Education and Administration

Autumn or Spring Session; 8 credit points; 3hrs week lecture/semimr.
Assessment: Seminar Paper 30%, Major Paper 40%, Fieldwork 30%
This subject is designed to provide students with an examination of current issues. Attention will be given to current international issues such as administrative structures, advanced coaching, models, theoretical and practical bases of talent identification, government policy, and research in coach education and sport administration. They will undertake a review of literature in one chosen area presenting the outcomes of the research in a seminar.

Textbooks:
Journal articles and portions of books will be used in lieu of set text.
Co-ordinator: Dr P Webb.

EDGA936 Learning Theories and Exceptionality

Autumn session; 8 credit points (3 hrs per wk).
Assessment: essay 40%, seminar presentation 30%, case study 30%.
This subject will require students to engage in a critical review of a range of explanations of human learning and their application to children with special needs. Learning will be examined from psychological, sociological and sociolinguistic perspectives. Topics to be considered will include: behaviourist learning theories and their educational applications; the impact of Piaget on educational practice and critiques of his theory; socio-cultural accounts of learning and their implications for teaching practice; 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.

Co-ordinator: Dr W Vialle.

EDGA937 Approaches to Reading Difficulties

Autumn or Spring session; 8 credit points.
Assessment: essay 30%, exam 20% case study 40%, reading response 10%.
Pre-or co-requisite: EDGA936 for students specialising in the Special Education Program.
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.

Textbook:

Co-ordinator: Ms D Konza.

EDGA938 Teaching Students with Learning Difficulties

Autumn or Spring Session; 8 credit points (3 hrs per wk).
Assessment: seminar presentation and paper 30%, major study 40%, examination 30%.
Pre- or co-requisite: EDGA936 for students specialising in the Special Education Program.
This subject aims to develop an understanding of how the teacher and the teacher's beliefs about learning affect classroom practice. Students will examine a range of teaching strategies derived from the behaviourist and cognitive models, social learning theories and other interventions used in the education of students with particular learning needs. Both critical reviewing of the literature and practical application of the theories will be included in the structure of the subject.

Textbooks:

Co-ordinator: Ms D Konza.

EDGA939 Approaches to Behaviour Management

Autumn or Spring sessions; 8 credit points.
Assessment: minor assignment 15%, transcript analysis 15%, major assignment 40%, examination 30%.
Pre- or co-requisite: EDGA936 for students specialising in the Special Education Program.
This subject examines a range of approaches to behaviour management and the theoretical principles upon which they are based. (e.g. Rogers' microskills approach, Canter and Canter's Assertive Discipline, Dweeks and Adlerian approaches, Compliance Training, Glasser's Reality Therapy, among others). 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.

Textbook:
Rogers, W., You Know the Fair Rule, Melbourne, ACER, 1990.
A number of other texts are also required
Co-ordinator: Ms D Konza.

EDGA946 Teaching Gifted Children

Autumn or Spring session; 8 credit points (1 hr lecture, 2 hrs seminar per wk).
Pre-requisite: EDGA936 for students wishing to specialise in Special Education.
Assessment: literature review 10%, seminar paper 20%, essay 30%, research paper 40%.
This subject will identify and critically examine the current issues related to the education of gifted & talented students. It will also prepare students 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. The subject will also provide opportunity for individualised study of a topic of special interest within the subject guidelines.

Textbook:

Co-ordinator: Dr W Vialle.

EDGA947 Giftedness in Special Populations

Spring session; 8 credit points (3 hrs per wk lecture/semimr).
Assessment: literature review 10%, seminar paper 20%, essay 30%, case study 40%.
Pre-Requisite: EDGA936 Learning Theories & Exceptionality for students wishing to specialise in Special Education.
This subject will critically examine the needs of special populations of students who are generally under-represented in programs for gifted and talented children. It offers a philosophical approach to gifted education that emphasises inclusiveness in student identification and programming as opposed to more traditional approaches which focus on exclusiveness. The subject will also prepare teachers to meet the needs of these children through 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.

Textbook:

Co-ordinator: Dr W Vialle.

EDGA948 Contemporary Perspectives in the Education of Students with Diverse Needs

Autumn or Spring Session; 8 credit points (3 hrs per week (lecture/semimr).
Pre-requisite: EDGA 936
Assessment: 2 minor assignments totalling 30%; 1 seminar paper 30%; 1 research paper 40%.
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.

Textbooks:
Journal articles and portions of books will be used in lieu of set text.

Co-ordinator: Dr W Vialle.

EDGA950 Information Technology, Education and Training
Assessment: 8 credit points (1 hr lecture, 2 hrs seminar/workshop).
Co-requisite: EDGA958 Instructional Strategies and Authoring or equivalent.
Assessment: 1 computer based project 40%, 1 essay 40%, 1 seminar presentation 20%.
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, human-computer interaction as a basis for instructional software and it will overview instructional systems design and evaluation for educational software.
Textbooks:

EDGA951 Information Systems and Educational Management
Spring session: 8 credit points (2 hrs lecture, 1 hr seminar/workshop).
Assessment: 1 computer based project 40%, 1 essay 40%, 1 seminar presentation 20%.
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.
Co-ordinator: Associate Professor J Hedberg.

EDGA952 Designing Instructional Software
Autumn or Spring session: 8 credit points (1 hr lecture, 2 hrs seminar/workshop).
Pre-requisite: EDGA950.
Assessment: 1 computer based project 40%, 1 essay 40%, 1 seminar presentation 20%.
This subject will examine the underlying cognitive implications of advanced information technology for independent learning systems. The focus is on supportive learning environments emphasizing interactivity and individual learning with particular reference to hypertext. It will include research into learning strategies using alternative structures of knowledge.
Textbooks:

EDGA954 Interactive Multimedia in Education
Spring session: 8 credit points (2 hr lecture, 1 hr seminar/workshop).
Pre-requisite: EDGA950.
Assessment: 1 computer based project 40%, 1 essay 40%, 1 seminar presentation 20%.
This subject will develop the skills for designing integrated learning environments which are to be delivered or experienced through computer-based systems. It will employ the research into learning from such systems, impact on educational organisation and delivery, design, instructional and evaluation strategies for these programs.
Textbooks:

EDGA955 Information Technology and Cognitive Processes
Autumn session: 8 credit points (1 hr lecture, 2 hrs seminar/workshop).
Assessment: 1 computer based project 40%, 1 essay 40%, 1 seminar presentation 20%.
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 enable research into the use of LOGO and other "programming" environments, artificial intelligence and cognition, development and implementation of intelligent tutoring systems, use of expert systems, embedded training and performance support systems.
Co-ordinator: Mr N Hall.

EDGA956 Advanced Studies in Interactive Learning
Spring session: 8 credit points (1 hr lecture, 2 hrs seminar/workshop).
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: 1 computer based project 40%, 1 essay 40%, 1 seminar presentation 20%.
This subject is an advanced study on a specific topic which reflects the current state of research knowledge in the field of information technology in teaching and learning. It will discuss the design of integrated learning environments which are to be delivered or experienced through computer-based systems. Research into learning from such systems, impact on educational organisation and delivery, design, instructional and evaluation strategies for these programs will be explored.
Co-ordinator: Associate Professor J Hedberg.

EDGA957 Implementation and Evaluation of Technology-Based Learning
Spring or Autumn session: 8 credit points, (2 hrs lecture/1 hr seminar per wk).
Pre-requisite: EDGA950.
Assessment: completion of two essays each 30% and one essay 40%.
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 interactive instructional software, especially interactive multimedia software, and the cognitive aspects for interfaces. The subject will also address evaluation and implementation of curriculum innovations and classroom-based learning strategies using information technologies.
Textbooks:

EDGA958 Instructional Strategies and Authoring
Summer or Spring or Autumn session: 8 credit points. (2 hours lecture/1 hour laboratory per week).
Pre- or co-requisite: EDGA950.
Assessment: programing assignments 60%, examination 40%.
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 such as HyperCard 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.
Textbooks:

EDGA959 Adult Literacy
Spring or Autumn Session; 8 credit points: 3 hrs per week (1 hour lecture, 2 hour seminar/workshop).
Assessment: Field report 30%, essay 40%, case study 30%.
The education of adult learners often involves assistance in the development of relevant language and literacy skills. This includes not only those who have literacy problems in terms of basic reading and writing, but also those who need to extend their language abilities in order to deal with new situations (e.g. the language of business communication, of various workplace contexts, of vocational education, of government institutions). The latter is particularly relevant in times of masssicking and upward mobility in the workplace. The 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...
EDGA960 Foundation of Policy Studies

Autumn or Spring session; 8 credit points (3 hrs per wk seminar alternating fortnightly with 3 hrs per wk workshop).

Assessment: 4 minor assignments totalling 20%, 1 major assignment 30%, 1 examination 30%, policy simulation 20%.

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.

Textbooks:


Co-ordinator: Professor C Fasano.

EDGA961 Policy Research and Policy Analysis

Autumn or Spring session; 8 credit points (3 hrs per wk seminar alternating fortnightly with 3 hrs per wk workshop).

Pre-requisite: EDGA960.

Assessment: 4 minor assignments totalling 20%, 1 major assignment 30%, 1 examination 30%, policy simulation 20%.

Policy analysts and researchers construct the information base out of which analysis can be carried out and efficient decisions can be made along the way from policy formulation to implementation and evaluation of policy programs. Knowledge of discipline-oriented policy enquiry methodologies - the tools of the trade of policy analysts and researchers - is indispensable in understanding how and why Australian educational policies take on their specific forms.

Textbooks:


Co-ordinator: Professor C Fasano.

EDGA964 Educational Management and Administration

Autumn or Spring session; 8 credit points (2 hrs lectures and 1 hr seminar per wk).

Pre-requisite: EDGA960.

Assessment: 3 minor papers 15% each, final examination 55%.

This subject examines some of the ways in which improved management and administration can contribute to more effective strategies and policy implementation in education. Topics covered include devolution/centralised control and the accountability of management, and the role of program budgeting - management resources. Case studies are drawn from Australia and overseas.

Textbook:

Co-ordinator: Professor K Gannicott.

EDGA966 Educational Leadership and Management

Autumn session; 8 credit points (1 hr lecture, 2 hrs tutorials/workshops per wk).

Assessment: paper 10%, paper 20%, critique of policy document 20%, project report 40%, seminar 10%.

This subject is designed to provide educational leaders with the knowledge and skills needed to facilitate the effective management of human resources in the implementation of policies and programs in educational settings. The content will include a critical examination of planning strategies, analysis of professional development models and current practices as applied to working with people in professional organisations. The subject will require a critical examination of the relationship between relevant theories, organisational structures and current professional development programs. Students will demonstrate competence in the design, implementation and evaluation of pertinent aspects of professional development.

Co-ordinator: Associate Professor M Harris.

EDGA970 Early Language and Literacy Development

Autumn session; 8 credit points (1 hr lecture, 2 hr tutorial per wk).

Assessment: major assignment 50%, two minor assignments 25% each.

This subject focuses on the way language develops in the early years of childhood. It examines the oral interactions between babies and caregivers in infancy, moving on to emergent literacy, and the transition from home to school. This subject introduces fundamental concepts and theories of language learning, specifically the relationship between language and literacy learning. It will draw on current writing in the field, and will provide an introduction to contemporary theories of language learning, models of language, socio-cultural variation, and the implications of theory for the role of the teacher.

Co-ordinator: Dr P Harris.

EDGA971 Assessment and Evaluation of Language & Literacy

Autumn or Spring session; 8 credit points (3 hrs per wk of workshops and tutorials).

Assessment: two projects 40% each and a log book 20%.

This subject will require students to examine the relationship between the axioms and assumptions underlying different paradigms of evaluation in literacy education. In particular the subject examines both past and current issues and theoretical underpinnings of evaluating student learning. It will critically examine 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 be required to trial and evaluate a range of assessment and evaluation instruments and procedures.

Co-ordinator: Associate Professor B Cambourn.

EDGA973 Language, Ideology and Culture

Autumn or Spring session; 8 credit points (3 hr lecture/sem seminar per wk).

Assessment: seminar 25%, text analysis 30%, project 45%.

This subject will draw on current writing in sociology, cultural studies, semiotics and linguistics to study the relationship between language, ideology and culture. Students will examine the contribution of language to the (re)production of cultural values and social meanings through an analysis of written and spoken texts such as curriculum documents, journal articles, school text books and other resource materials, teacher/student talk and interaction in other educational settings. It has particular relevance to those teaching in literacy and/or literature contexts but with a more general relevance to those examining policy or curriculum documents and other written and spoken texts. Topics to be covered include: theories of ideology; the relationship between discourse(s) and ideology, subjectivity and language; power and language; the operation of ideology through texts and developing a critical reading position.

Textbook:

Co-ordinator: Dr J Wright.

EDGA975 Discourse Analysis

Autumn or Spring session; 8 credit points (1 hr lecture, 2 hr tutorial per wk).

Pre- or co-requisite: EDGA976 for all students, and EDGA970 for students specialising in the Language and Literacy Program.

Assessment: assignments 50%, text analyses 50%.

This subject will extend the understandings about language introduced in EDGA976 Text and Context through a more detailed study of language and how it works. It will draw 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.

Co-ordinator: Dr W Winser.

EDGA976 Text and Context

Autumn session; 8 credit points (1 hr lecture, 2 hr tutorial per wk).

Assessment: assignments 60%, field report 40%.

This subject explores the relationship between texts and their contexts, focussing on the nature of language and its role in the learning process. 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 issues such as relationship between cultural and language similarities and differences between
spoken and written language: the language of different subject areas; the ways in which interpersonal relationships influence language and the language of classroom interaction.

This subject is also offered through the WOL Consortium as a subject in the full-fee programs of Graduate Certificate in Literacy and Master of Education. Co-ordinator: Dr B Derewianka.

**EDGA977 Communication and Learning**

**Spring Session:** 8 credit points, (3 hrs lecture/seminar per wk).

**Assessment:** essay (30%), seminar presentation (30%) and text analysis (40%).

This subject is designed to make students familiar with the work of those developmental psychologists and educational researchers who have attempted to explain the relationship which exists between communication, comprehension and learning. The ways in which children use social knowledge both to communicate effectively and to solve problems will be of special interest. 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 will be considered. Problem solving in peer groups, and adult-child instruction will also be examined. The subject will conclude with a consideration of the ways in which collaborative talk might contribute to the learning of literacy.

Textbooks:


Co-ordinator: Mr P Geeke.

**EDGA978 Literacy Practices for Diverse Needs**

**Spring Session:** 6 credit points (42 hrs - this subject will ONLY be offered off campus through the WOL consortium).

**Pre-requisites:** EDGA970.

**Assessment:** examination 50%; assignments 50%.

The subject is intended to introduce students to mainstream classroom practices with regard to literacy development, but will look in particular at how mainstream teachers might cater for the literacy needs of students from various 'minority' backgrounds (eg NESB students, students with reading difficulties, gifted and talented). It will examine programming and classroom management for diverse groups, the specific 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. The subject will also consider issues of classroom management and the convergence of special needs (eg. students who are both NESB and hearing impaired, students who are gifted but have reading difficulties).

Co-ordinator: Dr B Derewianka.

**EDGA981 Second Language Literacy**

**Spring session:** 8 credit points (1 hr lecture, 2 hr seminar per wk).

**Assessment:** three written assignments of equal weighting.

This subject will explore the social, cultural and ideological nature of literacy through a consideration of what it means to be literate (and illiterate) within Australia and other cultures. It will consider the role of literacy within a range of social, educational and vocational contexts. As well it will cover the following: a critical analysis of theories of reading and writing and their relevance for second language literacy development; an analysis of approaches to teaching literacy, with a consideration of their relationship to approaches to TESOL; the relationship between spoken and written language; their similarities and differences and the different roles they play in learning; implications of this relationship for developing effective literacy programs for second/language learners; principles for developing effective literacy programs; strategies for supporting the learning of literacy for ESL/EFL learners at beginner through to advanced levels.

Co-ordinator: Dr B Derewianka.

**EDGA983 Assessment in TESOL**

**Spring session:** 8 credit points (1 hr lecture and 2 hr seminar per wk).

**Assessment:** assignment 50%, essay 50%.

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 procedures. In addition, they need to prepare their students to sit for external tests. Students will take into account the interests of various stakeholders and will review various reporting practices.

Co-ordinator: Dr B Derewianka.

**EDGA984 Language and Learning in TESOL**

**Autumn or Spring session:** 8 credit points (3 hrs per week (1 hour lecture, 2 hour seminar/workshop).

**Assessment:** 2 essays 60%, 1 analysis 40%

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 learning, and examining research and theory in the area of second language learning. Links will be made to classroom practice and materials as appropriate.

Co-ordinator: Dr B Derewianka.

**EDGA985 English in Specific Contexts**

**Spring session:** 8 credit points (1 hr lecture, 2 hr seminar per wk).

**Pre-requisites:** none.

**Assessment:** two assignments 30% and 40%, one examination 30%.

The aim of this subject is to prepare students to design and teach English programs which address the needs of a specific clientele (e.g. English for Business Communication, English for the Workplace, English for Science and Technology). The subject will examine how language varies across contexts. Students will develop methods for analysing the language relating to different contexts (academic, vocational, social, personal) and will use these analyses in the development of teaching programs and materials.

Textbooks:


Co-ordinator: Dr B Derewianka.

**EDGA986 Literacy in Later Childhood and Adolescence**

**Autumn or Spring session:** 8 credit points (3 hrs per week (1 hour lecture, 2 hour seminar/workshop).

**Assessment:** 3 assignments

While literacy development in early childhood is given great prominence, it is important to recognise that literacy continues to develop throughout later childhood and into adolescence and that students in these years need explicit guidance and assistance in becoming increasingly independent and enlarging their repertoires of strategies and skills to become critical, effective readers and writers. Older learners need to be able to deal successfully with a wide range of texts in a number of different curriculum areas and to handle the increasing demands of technicality, abstraction and impersonality. In addition, they need to be literate in a variety of media such as film, images of various types, and electronic technology. Participants in the subject will investigate these various demands placed on older learners and will develop teaching and learning strategies for supporting students' ongoing literacy development.

Co-ordinator: Dr J Turbill.

**EDGA987 Children's Literature**

**Autumn or Spring session:** 8 credit points, 3 hrs per week (1 hour lecture, 2 hour seminar/workshop).

**Assessment:** 2 essays 60%, 1 analysis 40%

This subject aims to provide students with knowledge about a broad range of children's literatures (including literatures from a variety of cultures). The focus will be on the child as an active and receptive participator and literature suitable for children from babies to lower secondary school age will be canvassed. Students will be guided towards an appreciation, enjoyment, evaluation and critique of examples of children's literature in the light of
various theories of literacy criticism. In addition, participants will become familiar with a number of strategies relating to children's literacy for use in the classroom. Topics to be covered include the relationship between literacy development and children's literature; the history of the development of particular literary forms for children; the discursive construction of knowledge and subjectivity through children's literature; and the relationship between the reader, the text and society. 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.

Co-ordinator: Ms J Trezise.

EDGA989 Language and Communication in Exceptional Populations

Spring or Autumn Session: 8 credit points: 3 hours per week (Lecture/Seminar)
Pre-Requisite: EDGA970 Language and Literacy Development
Assessment: Seminar presentation 20% Seminar paper 20% Literature Review 30% Examination 30%
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.
Co-ordinator: Ms M Moroney.

EDGA990 Career Development and Support

Autumn or Spring Session or Annual (A): 8 credit points. (Self-study using CD-Rom materials equivalent to approximately 9 hrs study per wk).
Assessment: 4 essays 25% each. Available as full fee subject only. This subject will focus upon the understandings and skills required of a person providing career development support services. It will identify the different roles between the counselling roles. In order to address these issues, the subject will examine styles of helping and identify methods of conflict resolution. It will examine 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 including, problem exploration and clarification, client agreements, dynamics of the helping relationship and client occupational decision-making. The context will be examined through issues such as ethics and privacy, effective outcomes for the client, accreditation, possible conflict of interest. The effective career outcomes will be examined by reference to roadblocks, constraints, mapping and implementing options, action planning, resources and the problems of transition.
Additional articles and specific readings will be provided.
Co-ordinator: Associate Professor J Hedberg.

EDGA991 Instructional Design

Autumn session: 8 credit points (2 hrs lecture/1 hr seminar per wk).
Assessment: completion of three short essays 20% each, one essay 40%.
This subject is designed to provide students with necessary information, modelling and practice in applying principles of instructional design to training or other adult education settings. The topics include an introduction to needs assessment, task analysis, writing objectives and determining on performance outcomes, analysis of learners and their styles of learning, implications of learning theories for instructional design, instructional strategies, media decisions and evaluation planning. Ultimately the capabilities developed through this process should transfer to the individual workplaces and complement or supplement existing skills and capabilities.
Co-ordinator: Dr M Gillett.

EDGA992 Psychology of Adult Learning

Autumn session: 8 credit points (2 hours lecture/1 hours seminar. per week).
Assessment: two seminar papers 20% each; essay 30%; examination 30%.
This subject is designed for professionals engaged in adult education and training. Through their participation in the direct and related activities of the subject they will develop an understanding of the dynamics, theories, principles and styles commonly identified with adult learning environments. They will link theory to practice in the process of developing, implementing and evaluating teaching practices and strategies appropriate to adult learners. Theories considered will be drawn from the learning, motivation and personality areas. The subject will include a review of assessment procedures and the relationship between these and the metacognitive strategies employed by learners.
Co-ordinator: Professor R King.

EDGA993 Evaluation and Assessment

Spring session, 8 credit points, (2 hrs lecture/1 hr seminar per wk).
Pre-requisite: EDGA991 Instructional Design.
Assessment: completion of two essays 30% each; one essay 40%.
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 learners' performance. It also is directed towards the establishment and consolidation of logical links between evaluation and instructional design. Students will design instruments for needs assessment, the assessment of trainee/student learning and facilitator performance in an instructional setting. They will apply these instruments to collect data about a training/instructional intervention, and be able to argue their approach within the framework of an appropriate evaluation methodology.
Co-ordinators: Associate Professor J Hedberg/Dr M Gillett.

EDGA994 Learning Strategies and Communication

Spring session; 8 credit points (2 hrs lecture/1 hr seminar per wk).
Pre-requisite: EDGA991 Instructional Design.
Assessment: completion of two essays 40% each; one essay 20%.
This subject is designed to develop the capabilities of students to (a) select and implement appropriate training/instructional strategies for stated training objectives and (b) design and produce high quality support materials for effective learning in a range of educational contexts. The subject should build upon the student's prior studies in psychology and instructional design and contribute to their insight into the implementation stage of the design process. It comprises practical workshops in the development of instructional plans and strategies for learning. It considers 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 and refine personal practice as a facilitator of learning.
Co-ordinator: Dr M Gillett.

EDGA995 Management and Organisational Context of Learning

Autumn session; 8 credit points (2 hrs lecture/1 hr seminar per wk).
Assessment: completion of one essay 50%; one seminar presentation and paper 50%.
This subject will focus on the organisational and management aspects of adult education and training. It will...
also focus on the political context in which the adult educator or trainer must operate. From each of the spheres in which adult educators work the subject will identify the common and disparate elements and issues they require in their course and performance outcomes. The subject will focus on the role of training and adult learning within the human resource function of organisations, and examine concepts such as the learning organisation. It will cover current issues in the training context such as: The Competency Debate; Government reports - Mayer, Finn, Carmichael; etc. general issues in performance improvement and change management.

**Textbook:**
Co-ordinator: Associate Professor J Hedberg/Dr C Fox.

**EDGA996: Issues in Adult Education and Training**

Spring session: 8 credit points (12 hours per week: 2 lectures and 1 tutorial/seminar).

Pre-requisite: at least two subjects in the Adult Education and Training Program.

Assessment: two essays each worth 40%, seminar presentation 20%.

This subject is designed to provide students with an examination of current issues facing professionals in the field. Attention will be given to current international issues in adult teaching and learning such as problem-based learning, access to technology, distance education of adults, implementation of government policy in adult development, working with third age learners, equity and renewal of the workforce, and literacy in the workplace. In examining these issues students will be encouraged to consider the psychological bases for adult teaching and learning, different workplace and other learning contexts and the management of adult teaching and learning. They will undertake a review of literature in one chosen area and present the outcomes of this research in a seminar.

**Textbooks:**
Co-ordinator: Dr M Gillett.

**EDGA997: Introduction to Tertiary Teaching**

Formerly EDGA807 'Introduction to Tertiary Teaching.'

Spring session and Autumn session: 8 credit points (2 hours/lecture, 2 hours workshop).

Assessment: direct observation of performance 50%, assessment of prepared materials 20%, reflective diary 30%.

This subject will be presented in cooperation with the Centre for Staff Development. It is only available to staff employed at tertiary institutions and forms the introductory subject for the Graduate Certificate in Higher Education. It will introduce students to the range of basic skills of tertiary teaching: planning, questioning, managing, communicating and evaluating. It will deal with a range of teaching methods relevant to particular faculties 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. Ultimately this subject should lead students to an awareness of avenues for continuing professional development and a desire to continue the refinement of their teaching capabilities. Intending students must consult with the course co-ordinator before enrolling in this subject.

**Textbook:**
Co-ordinator: Dr M Gillett.

**EDGA998: Career Management and the Organisation**

Autumn or Spring session or Annual (A): 8 credit points (Self-study using CD-ROM materials equivalent to approximately 9 hrs study per week).

Assessment: 4 essays 25% each.

This subject will address current trends in career development theory and introduce their application to individuals as they move 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 the employer to provide for career development within the training and human resource development function. The importance of organisational change and planning on career development will be considered in the provision of facilities and resources to support the process by the organisation. It will discuss methods for linking career development to organisational planning, implementation strategies, and financial planning within the human resource and training functions. Specific facilities such as 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.

**Textbooks:**
Co-ordinator: Associate Professor J Hedberg.

**GRADUATE DIPLOMA IN EDUCATION**

The subjects EDUC800 - EDUC892 form the Graduate Diploma in Education program. This is an integrated course of study leading to a professional teaching qualification. Some areas of the program are classroom-based, others relate to the theoretical components of teaching and the emphasis throughout is on constructing relationships between the two. Full details of the course requirements and assessment are available in the Course Handbook and Subject Outlines distributed at enrolment.

**EDUC800: Practicum**

Annual (A): 8 credit points.

Assessment: school practice teaching reports. This is the practice teaching component of the course. Students will be required to complete successfully nine weeks of practice teaching. In addition, students will be required to attend field experience days during which they will undertake a wide range of activities in preparation for the periods of full-time practice teaching. Students are advised that they will be expected to carry out their practice teaching experience in the Wollongong area.

Co-ordinator: Ms N Southall.

**EDUC801: Learners with Special Needs**

Autumn: 4 credit points (3hrs per week, 2 lectures, 1 tutorial).

Assessment: Tutorial presentation 20%, tutorial paper 30%, major assignment 30%, examination 30%.

This subject aims at developing an understanding of those students in regular classroom who do not succeed at the same rates as their peers, either through learning difficulties or behaviour disorders. The focus of the subject is on the development of teaching strategies and behavioural management skills which will enable teachers to increase the effectiveness of their teaching and facilitate the learning of all students.

Textbook:
Co-ordinator: Ms D Konza.

**EDUC802: Pedagogy**

Annual Session: 8 credit points, hrs: 3 per week.

Assessment: Four minor assignments 25% each.

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.

Co-ordinator: Ms N Southall.

**EDUC803: Perspectives A**

Annual: 6 credit points; 6 hours per week: 4 lectures and 2 tutorials per week.

Assessment: 4 minor assignments 40%, 2 essays 30% each.

This subject aims to enrich students' reflective processes by encouraging them to review their experience in schools in the light of a developing awareness of wider educational issues arising from studies of the history of Australian education, the sociology of education and schools, psychological perspectives and various educational philosophies and theories. Students will be engaged in critical analyses within each of the
disciplines designed to highlight the inter-relationships among them and the ways in which these disciplines impact educational practice.

Co-ordinator: Dr W Vialle.

EDUC804 Perspectives B
Annual; 4 credit points; 2 hours per week (seminars and workshops)
Assessment: Varies by elective
Secondary GDipEd students will undertake studies in two elected areas. The content of the elected areas offered may include Aboriginal Education, Philosophy of Education, Computers in the Classroom, Children's Literature and School-Based Research.
Co-ordinator: Dr M Wilson

EDUC805 Perspectives C
Annual; 2 credit points; Contact hours: 1 hour per week
Assessment: Varies by elective
Primary GDipEd students will undertake studies in one elected area. The context of the elected areas offered may include: Aboriginal Education, Philosophy of Education, Computers in the Classroom, Children's Literature and School-Based Research.
Co-ordinator: Dr M Wilson

EDUC806 Curriculum Studies
Annual; 6 credit points; 2 hours per week
Assessment: Major Assignment 40%, Two Minor Assignments 40%, Minor tasks and exercises throughout the year 20%
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 national and global perspectives the inclusive curriculum all in relation to teachers' professional classroom work
Textbook:

EDUC811 Personal Development, Health and Physical Education
Annual; 4 credit points; 3 hrs per week
Assessment: 1 major assignment 40%, 4 minor assignments 40%, participation 20%
This subject is aimed at both primary and secondary pre-service teacher education students and will cover aspects of personal development, health and physical education for which all teachers share responsibility. The subject will acquaint prospective teachers with a variety of health issues which are important to young people and will equip them with the knowledge and confidence to organize and supervise groups of young people during physical and sporting activities. Areas covered will include child protection, body image, childhood disorders, drug use, suicide prevention, and stress management. In physical education the content areas of movement exploration (dance and gymnastics), fitness and lifestyle, and games and sports will be dealt with.
Co-ordinator: Ms R Westbrook.

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.

EDUC821 Social Science I
Method
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC822 Social Science II
Method
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC831 English Method 1
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC832 History Method 1
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC833 Drama Method 1
Annual; 4 credit points
Co-ordinator: Dr M Wilson.

EDUC841 English as a Second Language Method 1
Double session (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC842 French Method 1
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC844 Italian Method 1
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC845 Japanese Method 1
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC851 Mathematics I
Method 2
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC852 Mathematics II
Method 2
Annual (A); 4 credit points.
Students who wish to teach mathematics at secondary school level will need to complete EDUC851 and EDUC852 successfully.
Co-ordinator: Dr M Wilson.

EDUC860 Primary Method.
Annual Session; 10 credit points;
Co-ordinator: Dr M Wilson/Mr S Warren.

EDUC871 Science I
Method 2
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC872 Science II
Method 2
Annual (A); 4 credit points.
Students who wish to teach science at the secondary school level will need to complete EDUC871 and EDUC872 successfully.
Co-ordinator: Dr M Wilson.

EDUC881 Art I
Method 3
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC882 Art II
Method 3
Annual (A); 4 credit points.
Students who wish to undertake Art as a double method will need to complete EDUC881 and EDUC882 successfully.
Co-ordinator: Dr M Wilson.

EDUC891 Music I
Method 3
Annual (A); 4 credit points.
Co-ordinator: Dr M Wilson.

EDUC892 Music II
Method 3
Annual (A); 4 credit points.
Students who wish to undertake Music as a double method will need to complete EDUC891 and EDUC892 successfully.
Co-ordinator: Dr M Wilson.
ENVI920 The Scientific Basis of Environmental Management
Annual, 8 credit points (28 hrs lectures, 28 hrs seminar, up to four days fieldwork).
Assessment: final examination, 2 essays, 1 research report.
This course covers topics designed to give students a comprehensive overview of the scientific basis of environmental management. The course will adopt a multi-disciplinary approach to the scientific understanding of how major ecosystems work and show how an appreciation of such knowledge leads to the development of appropriate management strategies for these systems. While there will be some emphasis on the Australian situation, much of the material is applicable in any country. The systems to be covered include estuaries, reefs, coastal wetlands, forests (tropical and temperate), large and small catchment areas, semi-arid areas. In addition the science of the management of hazardous wastes (including radioactive materials) will be discussed. Case studies from Australia, South East Asia and the Pacific Islands will be included. As part of the course, students will complete a project carried out in teams to facilitate the development of inter-disciplinary skills and an appreciation of the benefits of teamwork in addressing environmental management issues.
Coordinator: Professor J Morrison.

HIST934 The Re-making of Australian History
Autumn session: 12 credit points (3 contact hrs per week).
Pre-requisite: bachelor degree, with a sub-major or more in History.
Assessment: essay 60%, tutorial papers 30%, tutorial participation 10%.
The subject will examine the re-writing of the following themes in Australian history: Nationalism and Racism; Aboriginal pre-history and white relations; the role of women in society; the influence of literature, art and mass communications; and local and family history. It will also discuss the social and technical sources of these changes.
Textbooks:
Coordinator: Professor J S Hagan.
FACULTY OF ENGINEERING
FACULTY OF ENGINEERING

FACULTY OFFICE

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Sub Dean: Dr G John Montagner
Faculty Officer: Ms Julie Romanowski
Administrative Assistant: Ms Leonie McIntyre
Information Technology Officer: Mr Des Jamieson

MEMBERSHIP

The Faculty of Engineering is made up of the following Units:

Civil and Mining Engineering
Materials Engineering
Mechanical Engineering

For Electrical and Computer Engineering – Refer to Faculty of Informatics

RESEARCH COURSES AVAILABLE

The Faculty offers Honours Master of Engineering and Doctor of Philosophy degrees by research.

COURSEWORK POSTGRADUATE PROGRAMS

Postgraduate programs are available in the Faculty in the following areas:

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For Electrical, Computer and Telecommunications Engineering, refer to Faculty of Informatics.

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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Oliver C Kennedy, BE UNSW

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Mr E J Whitehead, 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

POSTGRADUATE PROGRAMS

Structural Engineering
Water & Geotechnical 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 STRUCTURAL ENGINEERING
leading to the Honours Master of Engineering.

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Electives

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<td>CIVL910</td>
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<td>Vibrations of Structures</td>
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<td>CIVL911</td>
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<td>Finite Element Methods</td>
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<tr>
<td>CIVL914</td>
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<td>CIVL918</td>
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<td>CIVL923</td>
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<tr>
<td>CIVL924</td>
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Note: not all subjects available in any one year.
For further details, see Course Requirements below.

POSTGRADUATE PROGRAM IN WATER & GEOTECHNICAL ENGINEERING
leading to the Honours Master of Engineering.

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<td>Advanced Foundation Engineering</td>
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<td>EENC920</td>
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Note: not all subjects available in any one year.
For further details, see Course Requirements below.
POSTGRADUATE PROGRAM IN CIVIL ENGINEERING
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<td>CIVL908</td>
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Note: not all subjects available in any one year.

For further details, See Course Requirements below

OTHER POSTGRADUATE SUBJECTS

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<tr>
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<td>CIVL904</td>
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<td>CIVL906</td>
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<td>CIVL907</td>
<td>Civil Engineering Computations</td>
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<td>CIVL915</td>
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<td>CIVL957</td>
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Note: not all subjects listed will be on offer in any one year.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for the degree enrol in the subject CIVL957.

2. HONOURS MASTER OF ENGINEERING

The Department of Civil and Mining 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.

(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.

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 and Mining 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.

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 and Mining Engineering comprise:

(i) the subject CIVL955 ME Major Thesis; or

(ii) the subject CIVL951 Dissertation plus four subjects from the list CIVL901 through CIVL925; or

(iii) the subject CIVL950 Dissertation plus six subjects from the list CIVL901 through CIVL925.

Note: It should be noted that among the listed subjects from CIVL901 through CIVL925, only some are offered in any one year.

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 credit points) 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 CIVL899.

Upon satisfactory completion of the subject CIVL899, 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

Where textbooks and/or subject co-ordinators are not specified, details will made available at a later date.

CIVL899 Advanced Topics in Engineering

Double session (A); 48 credit points.

Students will normally take a selection of topics at advanced level from the following: computer aided analysis and design; computer methods; civil engineering materials; finite element techniques; geotechnical systems; recent developments in geotechnical systems; reliability; rock mechanics; soil mechanics; simulation; structural analysis and design; structural dynamics; town planning; traffic engineering; transportation; highway engineering; urban investigations; structural dynamics; continuum mechanics.

Co-ordinator: Associate Professor DG Montgomery.

CIVL901 Project

Autumn or Spring session; 6 credit points.

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.

Co-ordinator: Associate Professor DG Montgomery.

CIVL902 Reliability in Geotechnical Engineering

Autumn or Spring session; 6 credit points.

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, fragility and intuition; most probable extent of embankment or slope failure.

Co-ordinator: Associate Professor RN Chowdhury.

CIVL903 Concrete Technology

Autumn or Spring session; 6 credit points.

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.

Co-ordinator: Associate Professor D G Montgomery.

CIVL904 Highway Materials

Autumn or Spring session; 6 credit points.


Co-ordinator: Dr M Hadi.

CIVL905 Transportation Engineering

Autumn or Spring session; 6 credit points.

Transport problems; urban travel demands; the transport planning process; travel and demand forecasting; trip generation analysis; model split analysis; trip distribution analysis; route assignment analysis; economic analysis; employment and population forecasts; evaluation of transport demand; transport model; computer programming; 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.

Co-ordinator: Dr M Hadi.

CIVL906 Traffic Engineering

Autumn or Spring session; 6 credit points.

Characteristics of vehicles, drivers and pedestrians; vehicle speeds, volumes, journey times; accident studies; traffic management; parking; traffic prediction; economic analysis.

Co-ordinator: Dr M Hadi.

CIVL907 Civil Engineering Computations

Autumn or Spring session; 6 credit points.

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 geometric analysis, dynamic analysis, frame 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.

Co-ordinator: Dr M Hadi.

CIVL908 Advanced Soil Mechanics

Autumn or Spring session; 6 credit points.

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.

Co-ordinator: Associate Professor RN Chowdhury.

CIVL909 Advanced Foundation Engineering

Autumn or Spring session; 6 credit points.

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.

Co-ordinator: Dr B Indraratna.

CIVL910 Vibrations of Structures

Autumn or Spring session; 6 credit points.


Co-ordinator: Dr R Kohoutek.

CIVL911 Finite Element Methods

Autumn or Spring session; 6 credit points.

Variational principles; element shape functions, "displacement" and "stress" formulations, curved and isoparametric elements; computer programming techniques; analysis of plates, shells and axi-symmetric structural analysis of slab- and box-type bridge superstructures.

Co-ordinator: Dr M Hadi.

CIVL912 Engineering Hydrology

Autumn or Spring session; 6 credit points.

Storm models, storm maximisation, extreme precipitation estimates, intensity-frequency duration analysis, design storms; rainfall losses, infiltration models, design losses; advanced unit - hydrograph theory; synthetic unit hydrographs; hydrograph synthesis by runoff - routing; design floods for rural and urban catchments.

Co-ordinator: Associate Professor MJ Boyd.

CIVL913 Estuary and Coastal Engineering

Autumn or Spring session; 6 credit points.

Theory of deep and shallow water waves, wave generation and decay, wave breaking, wave forces on structures; harbour resonance and seiche action, wave refraction and diffraction; breakwater design; shoreline processes, beach protection; tidal theory, propagation of tides into estuaries; sediment transport; fixed and loose bed hydraulic models; inspection of hydraulic model.

Co-ordinator: Associate Professor MJ Boyd.
CIVL914 Analysis and Design of Bridge Structures
Autumn or Spring session; 6 credit points.
Types of bridges; similarities between bridges and some plate- and 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.
Co-ordinator: Professor LC Schmidt.

CIVL915 Numerical Methods in Civil Engineering
Autumn or Spring session; 6 credit points.
Co-ordinator: Associate Professor MJ Lowrey.

CIVL916 Research Topics in Civil Engineering
Autumn or Spring session; 6 credit points.
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.
Co-ordinator: Associate Professor DG Montgomery.

CIVL918 Steel Structures
Autumn or Spring session; 6 credit points.
Co-ordinator: Professor LC Schmidt.

CIVL919 Earth Structures
Autumn or Spring session; 6 credit points.
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; protection and control of subsurface erosion and piping; risk studies; maintenance and improvement of earth structures.
Co-ordinator: Associate Professor RN Chowdhury.

CIVL923 Advanced Reinforced Concrete
Autumn or Spring session; 6 credit points.
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 and design of deep beams. Yield line method for slabs. Design code provisions.
Co-ordinator: Dr B Uy.

CIVL924 Advanced Studies in Computer Aided Design and Draughting
Autumn or Spring session; 6 credit points.
Fundamentals of CADD; the workstation; hardware and software for CADD configurations; operation and facilities of CADD systems; AutoCAD, MegCAD, Prodesign II and other Micro-CAD systems; LISP language; programming with AutoLISP; customising AutoCAD, creating new commands, screen menus and table menus; CADD data-base, bill of materials; structural detailing; CADD management.
Co-ordinator: Dr YW Wong.

CIVL925 Conservation of Structures
Autumn or Spring session; 6 credit points.
Introduction to Principles of Conservation: the Burra Charter, the NSW Heritage Act. Understanding traditional construction methods. Structural forms of historical buildings and bridges. Conservation of foundations; conservation of masonry walls; conservation of roof structures; conservation of bridges and industrial structures; local case studies; international case studies.
Co-ordinator: Dr YW Wong.

CIVL950 Dissertation
Double session (A); 12 credit points.

CIVL951 Dissertation
Double session (A); 24 credit points.

CIVL955 ME Major Thesis
Double session (A); 48 credit points.

CIVL957 PhD Major Thesis
Double session (A); 48 credit points.

CIVL980 Advanced Computer Applications
Autumn or Spring session; 6 credit points.
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, advanced 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.
Co-ordinator: Associate Professor E Baafi.

CIVL981 Special Topic A
Autumn or Spring session; 6 credit points.
Specialist topic in civil engineering offered by members of staff, professional engineers or visitors to the Department.
Co-ordinator: Associate Professor DG Montgomery.

CIVL982 Special Topic B
Autumn or Spring session; 6 credit points.
Specialist topic in civil engineering offered by members of staff, professional engineers or visitors to the Department.
Co-ordinator: Associate Professor DG Montgomery.

ENG950 Innovation and Design
Autumn or Spring session; 6 credit points (3hrs per week).
Assessment: Major design project, including individual and teamwork - 50%, smaller design exercise - 25% and final examination - 25%.
Co-ordinator: Professor B A Parker.

ENGG951 Engineering Project Management
Autumn or Spring session; 6 credit points (3hrs per week).
Assessment: Comprehensive project management task, including individual and team work - 50%, final examination - 50%.
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 or Spring session; 6 credit points (3hrs per week).
Assessment: Development of a computer solution to an engineering or management information problem - 50% and two computing assignments - 25% each.
ENVIRONMENTAL 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.

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<td>EENG920</td>
<td>Principles of Environmental Engineering</td>
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<tr>
<td>EENG921</td>
<td>Wastewater Engineering</td>
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<td>EENG922</td>
<td>Water Supply Engineering</td>
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<td>EENG951</td>
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<td>EENG955</td>
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<td>ENV1920</td>
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<td>Engineering Hydrology</td>
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Note: all subjects may not be offered in any one year.

For further details, see Course Requirements below.

POSTGRADUATE PROGRAM IN ENVIRONMENTAL ENGINEERING
leading to the Master of Engineering Practice

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<td>ENGG951 Engineering Project Management</td>
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Note: all subjects may not be offered in any one year.

For further details, see Course Requirements below.
OTHER POSTGRADUATE SUBJECTS

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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.

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.

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 credit points) 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 session; 48 credit points.

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.

Co-ordinator: Associate Professor M J Boyd.

EENG901 Project

Autumn or Spring: 6 credit points.

First stage of a study on a selected topic, including formulation of the problem, literature study, development of study plan, and presentation of results.

Co-ordinator: Associate Professor M J Boyd.

EENG916 Research Topics in Environmental Engineering

Autumn or Spring: 6 credit points.

Topics will be selected from the areas of environmental engineering in which staff members are engaged in research.

EENG920 Principles of Environmental Engineering

Autumn or Spring session: 6 credit points.

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.

Co-ordinator: Associate Professor M Sivakumar.

EENG921 Wastewater Engineering

Autumn or Spring session: 6 credit points.

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.

Co-ordinator: Associate Professor M Sivakumar.

EENG922 Water Supply Engineering

Autumn or Spring session: 6 credit points.

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.

Co-ordinator: Associate Professor M Sivakumar.

EENG950 Dissertation

Double session; 12 credit points.

EENG951 Dissertation

Double session; 24 credit points.

EENG955 ME Major Thesis

Double session (A); 48 credit points.

EENG957 PhD Major Thesis

Double session (A); 48 credit points.

EENG981 Special Topic A

Autumn or Spring session; 6 credit points.

Specialist topic in environmental engineering offered by members of staff, professional engineers or visitors to the department.

Co-ordinator: Associate Professor MJ Boyd

EENG982 Special Topic B

Autumn or Spring session; 6 credit points.

Specialist topic in environmental engineering offered by members of staff, professional engineers or visitors to the department.

Co-ordinator: Associate Professor MJ Boyd

ENG950 Innovation and Design

Autumn or Spring session; 6 credit points (3hrs per week).

Assessment: Major design project, including individual and teamwork - 50%; smaller design exercise - 25% and final examination - 25%.


Co-ordinator: Professor B A Parker.

ENG951 Engineering Project Management

Autumn or Spring session; 6 credit points (3hrs per week).

Assessment: Comprehensive project management task, including individual and team work - 50%; final examination - 50%.

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 or Spring session; 6 credit points (3hrs per week).

Assessment: Development of a computer solution to an engineering or management information problem - 50% and two computing assignments - 25% each.

MATERIALS 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 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 Steel Processing and Products

POSTGRADUATE PROGRAMS

Advanced Engineering Materials
Materials Processing
Metallurgy
Materials Engineering
Materials Welding and Joining
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 polymeric and polymer-metal interphases
- Bath smelting technology
- Slag cleaning
- Treatment of steelworks dust
- Erosion/corrosion of smelter refractories
- Characterisation of welding fumes
- 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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<td>Core</td>
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<td></td>
<td>6</td>
</tr>
<tr>
<td>MATL901</td>
<td>Special Topic in Materials A</td>
<td></td>
</tr>
<tr>
<td>MATL903</td>
<td>Recent Developments in Materials</td>
<td></td>
</tr>
<tr>
<td>MATL905</td>
<td>Metallic Materials</td>
<td></td>
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<tr>
<td>MATL906</td>
<td>Ceramic Materials</td>
<td></td>
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<tr>
<td>MATL907</td>
<td>Polymeric Materials</td>
<td></td>
</tr>
<tr>
<td>MATL972</td>
<td>Materials Design</td>
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</table>

For further details, see Course Requirements below.
### POSTGRADUATE PROGRAM IN MATERIALS PROCESSING
leading to the Honours Master of Engineering.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
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<tr>
<td>MATL992</td>
<td>Dissertation</td>
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<tr>
<td>Electives</td>
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<tr>
<td>MATL901</td>
<td>Special Topic in Materials A</td>
<td>6</td>
</tr>
<tr>
<td>MATL902</td>
<td>Special Topic in Materials B</td>
<td>6</td>
</tr>
<tr>
<td>MATL903</td>
<td>Recent Developments in Materials</td>
<td>6</td>
</tr>
<tr>
<td>MATL921</td>
<td>Formability of Sheet Material</td>
<td>6</td>
</tr>
<tr>
<td>MATL932</td>
<td>Surface Engineering of Materials</td>
<td>6</td>
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<tr>
<td>MATL937</td>
<td>Process Metallurgy</td>
<td>6</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN METALLURGY
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>Core</td>
<td></td>
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</tr>
<tr>
<td>MATL992</td>
<td>Dissertation</td>
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<tr>
<td>Electives</td>
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<tr>
<td>MATL901</td>
<td>Special Topic in Materials A</td>
<td>6</td>
</tr>
<tr>
<td>MATL903</td>
<td>Recent Developments in Materials</td>
<td>6</td>
</tr>
<tr>
<td>MATL905</td>
<td>Metallic Materials</td>
<td>6</td>
</tr>
<tr>
<td>MATL911</td>
<td>Mechanical Behaviour of Materials</td>
<td>6</td>
</tr>
<tr>
<td>MATL951</td>
<td>Performance of Materials A</td>
<td>6</td>
</tr>
<tr>
<td>MATL952</td>
<td>Performance of Materials B</td>
<td>6</td>
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<tr>
<td>MATL971</td>
<td>Prescription and Selection of Materials</td>
<td>6</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

### POSTGRADUATE PROGRAM IN MATERIALS ENGINEERING
leading to the Master of Engineering Practice.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>Core</td>
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<tr>
<td>ENGG950</td>
<td>Innovation and Design</td>
<td>6</td>
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<tr>
<td>ENGG951</td>
<td>Engineering Project Management</td>
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<tr>
<td>ENGG952</td>
<td>Engineering Computing</td>
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<tr>
<td>ENGG919</td>
<td>Dissertation</td>
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<tr>
<td>Electives</td>
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<tr>
<td>MATL987</td>
<td>Metallurgical Processing 1</td>
<td>6</td>
</tr>
<tr>
<td>MATL988</td>
<td>Metallurgical Processing 2</td>
<td>6</td>
</tr>
<tr>
<td>MATL989</td>
<td>Metallurgical Processing 3</td>
<td>6</td>
</tr>
<tr>
<td>MATL974</td>
<td>Engineering Materials 1</td>
<td>6</td>
</tr>
<tr>
<td>MATL975</td>
<td>Engineering Materials 2</td>
<td>6</td>
</tr>
<tr>
<td>MATL976</td>
<td>Refractories</td>
<td>6</td>
</tr>
<tr>
<td>MATL977</td>
<td>Corrosion and Degradation</td>
<td>6</td>
</tr>
<tr>
<td>MATL978</td>
<td>Mechanical Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MATL981</td>
<td>Special Topic A</td>
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</tr>
<tr>
<td>MATL982</td>
<td>Special Topic B</td>
<td>6</td>
</tr>
</tbody>
</table>

Note: Not all elective subjects will be available in any one year.

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>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG899</td>
<td>Advanced Topics in Materials Welding and Joining</td>
<td>48</td>
</tr>
<tr>
<td>ENGG901</td>
<td>Introduction to Welding and Joining Processes</td>
<td>2</td>
</tr>
<tr>
<td>ENGG902</td>
<td>Arc Welding Processes</td>
<td>2</td>
</tr>
<tr>
<td>ENGG903</td>
<td>Non-arc Joining Processes</td>
<td>2</td>
</tr>
<tr>
<td>ENGG904</td>
<td>Welding, Cutting and Surfacing</td>
<td>2</td>
</tr>
<tr>
<td>ENGG905</td>
<td>Behaviour of Metals during Welding - Part 1</td>
<td>2</td>
</tr>
<tr>
<td>ENGG906</td>
<td>Behaviour of Metals during Welding - Part 2</td>
<td>2</td>
</tr>
<tr>
<td>ENGG907</td>
<td>Joining of Non-metallic and Dissimilar Materials</td>
<td>2</td>
</tr>
<tr>
<td>ENGG908</td>
<td>Construction and Design - Part 1</td>
<td>2</td>
</tr>
<tr>
<td>ENGG909</td>
<td>Construction and Design - Part 2</td>
<td>2</td>
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<tr>
<td>ENGG910</td>
<td>Fabrication/Applications Engineering - Part 1</td>
<td>2</td>
</tr>
<tr>
<td>ENGG911</td>
<td>Fabrication/Applications Engineering - Part 2</td>
<td>2</td>
</tr>
<tr>
<td>ENGG912</td>
<td>Welding Practical - Part 1</td>
<td>2</td>
</tr>
<tr>
<td>ENGG913</td>
<td>Welding Practical - Part 2</td>
<td>2</td>
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<tr>
<td>ENGG914</td>
<td>NDT/Metallographic Analysis</td>
<td>2</td>
</tr>
<tr>
<td>ENGG915</td>
<td>Mechanical Testing</td>
<td>2</td>
</tr>
<tr>
<td>ENGG916</td>
<td>Case Studies</td>
<td>2</td>
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<tr>
<td>ENGG917</td>
<td>Special Topics in Joining - A</td>
<td>2</td>
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<tr>
<td>ENGG918</td>
<td>Special Topics in Joining - B</td>
<td>2</td>
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<tr>
<td>ENGG919</td>
<td>Dissertation</td>
<td>12</td>
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</table>
POSTGRADUATE PROGRAM IN STEEL PROCESSING AND PRODUCTS
leading to Graduate Certificate in Steel Processing and Products and Master of Engineering Practice in Steel Processing and Products.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td></td>
<td>Graduate Certificate in Steel Processing and Products</td>
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<tr>
<td>ENGO930</td>
<td>Preliminary Topics in Steel Processing and Products</td>
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<tr>
<td>TQM911</td>
<td>Introduction to Quality Concepts</td>
<td>6</td>
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<tr>
<td>ENGO931</td>
<td>Steel Products and their Production plus one elective</td>
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<table>
<thead>
<tr>
<th>Master of Engineering Practice in Steel Processing and Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Certificate subjects, plus</td>
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<tr>
<td>MGMT933 Management of Process Innovation 1</td>
</tr>
<tr>
<td>MECH970 Maintenance Management plus two electives</td>
</tr>
<tr>
<td>Electives:</td>
</tr>
<tr>
<td>ENGO932 Rolling Technology</td>
</tr>
<tr>
<td>ENGO933 Coating Technology</td>
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<tr>
<td>ENGO934 Steelmaking</td>
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<tr>
<td>ENGO935 Casting</td>
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<tr>
<td>MGMT976 Refractories</td>
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<tr>
<td>ENGO936 Control of Steel Processing</td>
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<tr>
<td>MGMT915 Management of Change</td>
</tr>
<tr>
<td>MGMT934 Management of Process Innovation 2</td>
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</tbody>
</table>

For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATL899</td>
<td>Advanced Topics in Materials</td>
<td>48</td>
</tr>
<tr>
<td>MATL955</td>
<td>ME Major Thesis</td>
<td>48</td>
</tr>
<tr>
<td>MATL957</td>
<td>PhD Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

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 credit points. Programs approved by the Department of Materials Engineering comprise:

(i) the subject MATL955 Major Thesis; or
(ii) a dissertation MATL992 plus four subjects, each with a value of 6 credit points.

For any particular year the availability of subjects offered will be determined by student numbers and demand.

3. MASTER OF 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 credit points, 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 credit points.

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 Engineering) and specialist coursework programs in Materials Welding and Joining and Steel Processing and products.

The Master of Engineering Practice Program consists of three core ENGG subjects (6 credit points each) and three ENGG electives (6 credit points each) from the program Schedule. A 12 credit point 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 and in the Faculty of Engineering entry. 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 Table above. The course consists of a set of 18 modules (ENGG 901-918) with a total of 36 credit points, together with a specialisation (ENGG 919) of 12 credit points. 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 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 ENGG899, Advanced Topics in Materials Welding and Joining (48 credit points), and comprises 11 taught modules and 5 practical modules.

8. GRADUATE CERTIFICATE IN STEEL PROCESSING AND PRODUCTS

A Candidate will be awarded a Graduate Certificate in Steel Processing and Products on the successful completion of 24 credit points outlined in the above schedule. The course will be offered on a modular basis.

Entry 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 or Spring session; 48 credit points.
Components of ENGG 899 will be delivered as 16 modules.

1 module: 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
3 modules: Materials behaviour during joining of non-metallic and dissimilar materials
2 modules: Construction and Design
2 modules: Fabrication/Applications Engineering
2 modules: Welding practical

ENGG905 Behaviour of Metals During Welding - Part 1
Autumn or Spring session; 2 credit points.
Structures and properties of metals; alloys and phase diagrams; iron-carbon alloys; heat-treatment of steels; microstructures of welded joints; embrittlement and cracking in steels.
Commercial structural steels; fine grained steels; thermomechanically processed steels; low temperature steels; high temperature creep resistant steels; high alloy stainless steels; cast irons.
Co-ordinator: Professor J Norrish.

ENGG906 Behaviour of Metals During Welding - Part 2
Autumn or Spring session; 2 credit points.
Introduction to corrosion and wear; surface engineering of steels: cladding, thermal spraying, carburising, nitriding, electroplating, galvanising, tin coating; other treatments; problems in welding and joining of coated steels. Copper and copper alloys, aluminium, and its alloys; nickel alloys; other metals and alloys; welding and joining of non-ferrous alloys.
Co-ordinator: Professor J Norrish.

ENGG907 Joining of Non-Metallic and Dissimilar Materials
Autumn or Spring session; 2 credit points.
Structures and properties of non-metallic materials and composites; joining of polymers; joining of polymers to metals; joining of ceramics; composites; metal joints; methods used for joining of composites and composites to other materials.
Co-ordinator: Professor D Dunne.

ENGG908 Construction and Design - Part 1
Autumn or Spring session; 2 credit points.
Fundamentals of the strength of materials; basics of weld design; design principles of welded structures; joint design; fracture mechanics.
Co-ordinator: Professor J Norrish.

ENGG909 Construction and Design - Part 2
Autumn or Spring session; 2 credit points.
Behaviour of welded structures under different forms of loading; design of welded structures for static loading; effects of dynamic loading; thermodynamically loaded welded structures; design of welded aluminium alloy structures; reinforced steel welded joints.
Co-ordinator: Professor J Norrish.

ENGG910 Fabrication/Applications Engineering - Part 1
Autumn or Spring session; 2 credit points.
Quality assurance in welded structures; quality control during manufacture, total quality management. Welding stresses and distortion; control of welding restraint, stress relieving of weldments. Plant facilities, welding jigs and fixtures; measurement, control and recording in welding. Fume and radiation hazards from welding, health and safety issues.
Co-ordinator: Professor J Norrish.
ENGG911 Fabrication/Applications in Engineering - Part 2
Autumn or Spring session; 2 credit points.
Non-destructive testing methods: ultrasoundics and radiography; repair welding; fitness for purpose considerations; economic aspects of weld fabrication; economic considerations of high productivity welding, automatic and robotic welding.
Co-ordinator: Professor J Norrish.

ENGG912 Welding Practical- Part 1
Autumn or Spring session; 2 credit points.
Training in oxy-acetylene welding, MMA, TIG and MIG welding techniques; training in oxy-gas cutting of steel.
Co-ordinator: Professor J Norrish.

ENGG913 Welding Practical- Part 2
Autumn or Spring session; 2 credit points.
Demonstrations of brazing, soldering and adhesive bonding techniques. Demonstrations of plasma welding and cutting, submerged arc welding, resistance spot and seam welding, robotic and laser welding.
Co-ordinator: Professor J Norrish.

ENGG914 NDT/Metallographic Analysis
Autumn or Spring session; 2 credit points.
Practical exercises in weld defect testing using ultrasonics and radiography. Metallographic examination of commercially important metals and alloys, and the microstructures of steel and aluminium weldments.
Co-ordinator: Professor J Norrish.

ENGG915 Mechanical Testing
Autumn or Spring session; 2 credit points.
Practical exercises in mechanical testing of metallic and non-metallic materials: hardness testing, Charpy testing, determination of yield and tensile strengths, tensile elongation. Demonstration of fracture toughness (COD) testing. Application of mechanical testing to weldments.
Co-ordinator: Professor J Norrish.

ENGG916 Case Studies
Autumn or Spring session; 2 credit points.
Case studies of welding procedures applied to the fabrication of boilers and pressure vessels, pipelines, ships and naval vessels, offshore structures, transportation equipment, bridges, steel framed buildings, etc.
Co-ordinator: Professor J Norrish.

ENGG917 Special Topics in Joining - A
Autumn or Spring session; 2 credit points.
Lectures on special topics in materials welding and joining, especially current research directions and leading edge technology.
Co-ordinator: Professor J Norrish.

ENGG918 Special Topics in Joining - B
Autumn or Spring session; 2 credit points.
Lectures on special topics in materials welding and joining, especially current research directions and leading edge technology.
Co-ordinator: Professor J Norrish.

ENGG919 Dissertation
Annual; 12 credit points.
A thesis is required based on project work and/or an interpretative literature review on a topic in materials engineering.
Co-ordinator: Professor J Norrish.

ENGG930 Preliminary Topics in Steel Processing and Products
Autumn or Spring Session; 6 credit points.
A program, approved by the Dean of Engineering, of project work and studies of advanced topics necessary 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.
Co-ordinator: Professor R Dippenaar.

ENGG931 Steel Products and Their Production
Autumn or Spring Session; 6 credit points.
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.
Co-ordinator: Professor R Dippenaar.

ENGG932 Rolling Technology
Autumn or Spring Session; 6 credit points.
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.
Co-ordinator: Professor R Dippenaar.

ENGG933 Coating Technology
Autumn or Spring Session; 6 credit points.
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.
Co-ordinator: Professor R Dippenaar.

ENGG934 Steelmaking
Autumn or Spring Session; 6 credit points.
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.
Co-ordinator: Professor R Dippenaar.

ENGG935 Casting
Autumn or Spring Session; 6 credit points.
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.
Co-ordinator: Professor R Dippenaar.

ENGG936 Control of Steel Processing
Autumn or Spring Session; 6 credit points.
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.
Co-ordinator: Professor R Dippenaar.

ENGG950 Innovation and Design
Autumn or Spring Session; 6 credit points.
Assessment: Major design project, including individual and team work - 50%, smaller design exercise - 25% and final examination - 25%. 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, 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.
Co-ordinator: Professor D Parker.

ENGG951 Engineering Project Management
Autumn or Spring Session; 6 credit points.
Assessment: Comprehensive project management task, including individual and team work - 50%, final examination - 50%. 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 or Spring Session; 6 credit points.
Assessment: Development of a computer solution to an engineering or management information problem - 50% and two computing assignments - 25% each.
Co-ordinator: Professor D Dunne.

MATL899 Advanced Topics in Materials
48 credit points.
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.
Co-ordinator: Professor D Dunne.

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.
Co-ordinator: Dr G Brooks.

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.
Co-ordinator: Dr S Nightingale.

MATL905 Metallic Materials
Co-ordinator: Professor D P Dunne.

MATL906 Ceramic Materials
Co-ordinator: Dr S Nightingale.

MATL907 Polymeric Materials
Polymers, formation and classification. Effects of structure and additives on properties. Composite materials with polymeric matrices.
Co-ordinator: Dr G Spinks.

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.
Co-ordinator: Dr A Calla.

MATL911 Mechanical Behaviour of Materials
Behaviour of ceramics, metals and polymers under stress, stress-strain relationships, time and temperature dependent phenomena.
Co-ordinator: Associate Professor T Chandra.

MATL921 Formability of Sheet Material
Flow behaviour of sheet materials under uniaxial and biaxial stress; analyses of industrial forming processes.
Co-ordinator: Dr M Samandi.

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.
Co-ordinator: Dr M Samandi.

MATL937 Process Metallurgy
Ironmaking: Sintering and pelleting; time-temperature effects; phase composition; strength-reducibility relationships; mix selection; cokemaking; fundamental relations; coke strength and reactivity; blast furnace process; Rüt and Reichter 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.
Co-ordinator: Dr G Brooks.

MATL951 Performance of Materials A
Co-ordinator: Associate Professor T Chandra.

MATL952 Performance of Materials B

MATL955 ME Major Thesis
48 credit points.

MATL957 PhD Major Thesis
48 credit points.

MATL961 Materials Analysis A
Co-ordinator: Professor D Dunne.

MATL971 Prescription and Selection of Materials
Co-ordinator: Professor D Dunne.

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.
Co-ordinator: Professor D Dunne.

MATL974 Engineering Materials 1
Co-ordinator: Professor D Dunne.

MATL975 Engineering Materials 2
Co-ordinator: Dr M Samandi.

MATL976 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.
Co-ordinator: Dr S Nightingale.

MATL977 Corrosion and Degradation
Co-ordinator: Dr G Spinks.

MATL978 Mechanical Behaviour
Mechanical properties of materials: strength, hardness, strain hardening, creep, rupture, impact, dislocation and grain boundary effects. Mechanical forming: rolling, extrusion, forging and wire drawing, flow stress determination. Thermomechanical processing: time and temperature dependent behaviour, die design, high temperature materials problems, defects in mechanical processing, industrial applications.
Co-ordinator: Associate Professor T Chandra.

MATL981 Special Topic A
Specialist topic in materials engineering offered by members of staff, industrial experts or visitors to the Department.
Co-ordinator: Associate Professor T Chandra.

MATL982 Special Topic B
Specialist topic in materials engineering offered by members of staff, industrial experts or visitors to the Department.
Co-ordinator: Associate Professor T Chandra.

MATL987 Metallurgical Processing 1
Co-ordinator: Dr G Brooks.
MATL988 Metallurgical Processing 2
Thermodynamics and kinetics of metallurgical systems: Gibbs free energy, Ellingham diagrams, slag-metal equilibria, reaction order, rate constants, temperature and pressure effects. Transport phenomena: momentum, heat and mass transfer. Metallurgical reaction engineering: batch and flow reactors, design principles. Co-ordinator: Dr G Brooks.

MATL989 Metallurgical Processing 3

MATL992 Dissertation
24 credit points.
This subject may comprise a minor research project, an extensive literature survey and analysis, or the development of improved modelling methods of materials processes.
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 (Mechanical Engineering)
7. Graduate Diploma in Engineering (Mechanical Engineering)
8. Graduate Diploma in Engineering (Maintenance Management)
9. Graduate Diploma in Engineering (Systems Engineering)

POSTGRADUATE PROGRAMS

Advanced Manufacturing
Applied Mechanics
Bulk Solids and Particulate Technologies
Maintenance Management
Materials Handling
Systems Engineering
(Total Quality Management is available as a cross Faculty program, see Business School entry).

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
Heat transfer in two phase flow
Mechanical engineering design
Monitoring/diagnosis of manufacturing processes and machinery conditions
New algorithms in robotics
Non-destructive testing
Microwave applications
Mine water flows in longwall operation
Ozone transfer into water for disinfection
Recreation engineering
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 statistical process control
Automated warehousing systems
Automated welding and joining
Chip control in automated manufacture
Cost-effective quality management
Cybernetic quality system
Expert/knowledge system in automated machining
Fuzzy set and fuzzy logic control
Intelligent manufacturing systems
Japanese quality and manufacturing techniques
Knowledge-based computer simulation of machining process
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.

<table>
<thead>
<tr>
<th>Number</th>
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<td>Electives</td>
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<tr>
<td>MECH908</td>
<td>Computer Aided Design</td>
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<tr>
<td>MECH919</td>
<td>Advanced Topics in Mechanical Engineering 1</td>
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<tr>
<td>MECH929</td>
<td>Advanced Topics in Mechanical Engineering 2</td>
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</tr>
<tr>
<td>MECH932</td>
<td>Reliability Systems Management</td>
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</tr>
<tr>
<td>MECH934</td>
<td>Advanced Manufacturing Processes</td>
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<tr>
<td>MECH935</td>
<td>Integrated Manufacturing Systems</td>
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</tr>
<tr>
<td>MECH939</td>
<td>Advanced Topics in Mechanical Engineering 3</td>
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</tr>
<tr>
<td>MECH942</td>
<td>Expert Systems in Manufacturing</td>
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</tr>
<tr>
<td>MECH949</td>
<td>Advanced Computer Control of Machines and Processes</td>
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<tr>
<td>MECH950</td>
<td>Advanced Robotics</td>
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</tr>
<tr>
<td>MECH960</td>
<td>Industrial Quality Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH961</td>
<td>Quality Improvement Systems and Implementation</td>
<td>6</td>
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<tr>
<td>MECH963</td>
<td>Industrial Quality Technology</td>
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<tr>
<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>MECH906</td>
<td>Experimental and Analytical Modelling</td>
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<td>MECH908</td>
<td>Computer Aided Design</td>
<td>6</td>
</tr>
<tr>
<td>MECH917</td>
<td>Air Conditioning and Refrigeration</td>
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<tr>
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<td>Advanced Topics in Mechanical Engineering 1</td>
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</tr>
<tr>
<td>MECH920</td>
<td>Numerical Methods in Mechanical Engineering</td>
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<tr>
<td>MECH921</td>
<td>Hydrodynamics</td>
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<tr>
<td>MECH924</td>
<td>Continuum Mechanics</td>
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<tr>
<td>MECH925</td>
<td>Advanced Fluid Power</td>
<td>6</td>
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<tr>
<td>MECH926</td>
<td>Applied Fluid Mechanics</td>
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<tr>
<td>MECH928</td>
<td>Finite Element Techniques in Mechanical Engineering</td>
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<td>Advanced Topics in Mechanical Engineering 2</td>
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<tr>
<td>MECH930</td>
<td>Mechanical Vibration and Condition Monitoring</td>
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<tr>
<td>MECH931</td>
<td>Friction Lubrication and Wear</td>
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<tr>
<td>MECH933</td>
<td>Solar Energy</td>
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<tr>
<td>MECH944</td>
<td>Heat Transfer 2</td>
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For further details, see Course Requirements below.

## POSTGRADUATE PROGRAM IN MATERIALS HANDLING SYSTEMS
leading to the Honours Master of Engineering.

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<td>MECH911</td>
<td>Bulk Solids Handling Systems 1</td>
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<td>MECH912</td>
<td>Bulk Solids Handling Systems 2</td>
<td>6</td>
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<tr>
<td>MECH913</td>
<td>Pneumatic Transport of Bulk Solids</td>
<td>6</td>
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<tr>
<td>MECH906</td>
<td>Experimental and Analytical Modelling</td>
<td>6</td>
</tr>
<tr>
<td>MECH914</td>
<td>Hydraulic Transport of Bulk Solids</td>
<td>6</td>
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<tr>
<td>MECH919</td>
<td>Advanced Topics in Mechanical Engineering 1</td>
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<tr>
<td>MECH922</td>
<td>Energy Technology</td>
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<td>MECH927</td>
<td>Physical Processing of Bulk Solids</td>
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<tr>
<td>MECH929</td>
<td>Advanced Topics in Mechanical Engineering 2</td>
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<tr>
<td>MECH931</td>
<td>Friction, Lubrication and Wear</td>
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<tr>
<td>MECH940</td>
<td>Rotational Drives and Transmissions</td>
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<td>Advanced Topics in Mechanical Engineering 3</td>
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<td>MECH945</td>
<td>Bulk Solids Handling Systems 3</td>
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<tr>
<td>MECH960</td>
<td>Industrial Quality Management</td>
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For further details, see Course Requirements below.
### POSTGRADUATE PROGRAM MECHANICAL ENGINEERING
leading to Master of Engineering Practice.

<table>
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<tr>
<td>ENGC950</td>
<td>Innovation and Design</td>
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<tr>
<td>ENGC951</td>
<td>Engineering Project Management</td>
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<tr>
<td>ENGC952</td>
<td>Engineering Computing</td>
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<td>MECH956</td>
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<td>MECH917</td>
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<td>Applied Fluid Mechanics</td>
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<td>Stream 2:</td>
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<td>MECH924</td>
<td>Continuum Mechanics</td>
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<tr>
<td>Electives:</td>
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<tr>
<td>MECH921</td>
<td>Hydrodynamics</td>
<td>6</td>
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<tr>
<td>MECH931</td>
<td>Friction, Lubrication and Wear</td>
<td>6</td>
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<td>MECH944</td>
<td>Heat Transfer 2</td>
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<tr>
<td>MECH949</td>
<td>Advanced Computer Control of Machines and Processes</td>
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</tr>
<tr>
<td>MECH950</td>
<td>Advanced Robotics</td>
<td>6</td>
</tr>
<tr>
<td>Note:</td>
<td>(i) subject to approval, electives may be selected from any available 900 level subjects in the Faculty; and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(ii) not all of these electives will be offered in any one year.</td>
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<tr>
<td>For further details, see <strong>Course Requirements</strong> below.</td>
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### POSTGRADUATE PROGRAM BULK SOLIDS AND PARTICULATE TECHNOLOGIES
leading to Master of Engineering Practice.

<table>
<thead>
<tr>
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<th>Subject</th>
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<tbody>
<tr>
<td>MECH913</td>
<td>Pneumatic Transport of Bulk Solids</td>
<td>6</td>
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<tr>
<td>MECH914</td>
<td>Hydraulic Transport of Bulk Solids</td>
<td>6</td>
</tr>
<tr>
<td>MECH927</td>
<td>Physical Processing of Bulk Solids</td>
<td>6</td>
</tr>
<tr>
<td>MECH982</td>
<td>Bulk Solids Characterisation &amp; Particulate Mechanics</td>
<td>6</td>
</tr>
<tr>
<td>MECH983</td>
<td>Storage and Flow of Bulk Solids</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>
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<tr>
<td>MECH989</td>
<td>Advanced Topics in Bulk Solids &amp; Particulate Technologies 3</td>
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<tr>
<td>MECH990</td>
<td>Project in Bulk Solids and Particulate Technologies</td>
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<tr>
<td>plus</td>
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<tr>
<td>For further details, see <strong>Course Requirements</strong> below.</td>
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### POSTGRADUATE PROGRAM IN MAINTENANCE MANAGEMENT
leading to the Graduate Diploma in Engineering (Mtce Mgt) and the Honours Master of Engineering (Mtce Mgt).

<table>
<thead>
<tr>
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<tr>
<td>Core</td>
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<tr>
<td>MATH949</td>
<td>Statistical Thinking</td>
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<tr>
<td>or</td>
<td>Engineering Data Reduction and Error Analysis</td>
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</tr>
<tr>
<td>MECH970</td>
<td>Maintenance Management</td>
<td>6</td>
</tr>
<tr>
<td>MECH973</td>
<td>Systems Engineering and Life Cycle Management</td>
<td>6</td>
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<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
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<tr>
<td>Plus 4 electives to be selected from the list below.</td>
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<tr>
<td>Honours Master of Engineering (Mtce Mgt)*</td>
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<tr>
<td>Core</td>
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<tr>
<td>MECH951</td>
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<td>24</td>
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<tr>
<td>MECH972</td>
<td>Condition Based Maintenance</td>
<td>6</td>
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<td>MECH974</td>
<td>Information Systems in Maintenance Management</td>
<td>6</td>
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</tbody>
</table>

* This is considered to be the normal progression. Candidates entering the Masters course directly may be required to take one or more of the core subjects listed under Graduate Diploma.
### POSTGRADUATE PROGRAM IN MAINTENANCE MANAGEMENT (cont'd).

leading to the Graduate Diploma in Engineering (Mtce Mgt) and the Honours Master of Engineering (Mtce Mgt).

<table>
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#### Electives

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<td>LAW960</td>
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<tr>
<td>MECH940</td>
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<tr>
<td>MECH971</td>
<td>6</td>
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<td>MECH977</td>
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<tr>
<td>MECH978</td>
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<tr>
<td>MGMT912</td>
<td>6</td>
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<tr>
<td>MGMT953</td>
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<tr>
<td>MGMT976</td>
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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>
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<tbody>
<tr>
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<td>Core</td>
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<tr>
<td>MECH973</td>
<td>Systems Eng. and Life Cycle Management</td>
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</tr>
<tr>
<td>MECH980</td>
<td>Functional Analysis and Risk Management</td>
<td>6</td>
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<td>MECH981</td>
<td>Concurrent Design Management</td>
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<td>ENGG921</td>
<td>Eng. Data Reduction &amp; Error Analysis</td>
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<td>MGMT911</td>
<td>Organisational Behaviour</td>
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<td>MGMT979</td>
<td>Financial Decision Making</td>
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#### Electives

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<td>ENGG922</td>
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For further details, see Course Requirements below.

### OTHER POSTGRADUATE SUBJECTS

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<tr>
<td>MECH955</td>
<td>ME Major Thesis</td>
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</tr>
<tr>
<td>MECH957</td>
<td>PhD Major Thesis</td>
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### COURSE REQUIREMENTS

1. **DOCTOR OF PHILOSOPHY**

Candidates for this degree enrol in MECH957 PhD Major Thesis (48 credit points).

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 credit points. Approved programs comprise:

(i) the subject MECH955 ME Major Thesis, for full-time and part-time candidates, or

(ii) the subject MGMT951 Dissertation plus 24 credit points 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 (Maintenance Management) course will require a tertiary degree of approved standard from a recognised institute, e.g., 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 credit points. These must consist of four subjects selected from 2 core and 2 elective subjects and a 24 credit point research project leading to a dissertation. Note that prior to the conferring of the master degree, the candidate is required according to Course Rule 504(2) to surrender the testamur and associated rights for the diploma.

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, e.g., 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 credit points. These must consist of 4 subjects selected from 2 core and 2 elective subjects and a 24 credit point 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 credit points. The 12 credit point project (MECH990) is compulsory, the remaining 36 credit points will be made up of 6 subjects from the electives listed in the schedule. The program is offered on a modular basis over 2 years (i.e., part-time) and is a joint degree with the University of Newcastle. This is a full fee paying course.

6. 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 credit points.

7. 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 credit point 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 testamur and associated rights for the graduate diploma prior to receiving the honours masters degree.

8. 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 (Mtce Mgt) on successful completion of 48 credit points. 24 credit points of the core is compulsory, made up of four 6 credit point course work subjects - one subject from each of the Departments of Management and Mathematics, and two from Mechanical Engineering. The other 24 credit points will come from four 6 credit point electives.

Students completing the Graduate Diploma in Engineering (Mtce Mgt) at the University of Wollongong will have the option to enter into the Honours Master of Engineering (Mtce Mgt).

9. 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 of Engineering (Systems Engineering) on successful completion of 48 credit points. Thirty-six credit points of the core is compulsory, made up of six credit point coursework subjects. The other 12 credit points will come from two 6 credit point electives, selected from the list above.

SUBJECT DESCRIPTIONS

Where textbooks and/or subject coordinators 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 and MECH957, has 3 contact hours per week for one session.

Subjects offered by other Departments will be made available at a later date.

MECH921 Engineering Data Reduction and Error Analysis

Autumn or Spring session; 6 credit points.

Assessment: final examination and compulsory assignment.

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.

MECH922 Statistical Process Control in Manufacturing and Service Industries

Autumn or Spring session; 6 credit points.

Assessment: final examination and compulsory assignments.


MECH950 Innovation and Design

Autumn or Spring session; 6 credit points.

Assessment: Major design project, including individual and teamwork - 50%, smaller design exercise - 25% and final examination - 25%.

Topics will be selected from: The creative and innovative processes in design, life cycle design and planning. Design for economy, maintenance, disassembly,

Co-ordinator: Professor A B Parker.

ENG951 Engineering Project Management
Autumn or Spring session; 6 credit points (3hrs per week).
Assessment: Comprehensive project management task, including individual and team work - 50%, final examination - 50%.
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.

Co-ordinator: Dr AG McLean.

ENG952 Engineering Computing
Autumn or Spring session; 6 credit points (3hrs per week).
Assessment: Development of a computer solution to an engineering or management information problem - 50% and two computing assignments - 25% each.

MECH999 Advanced Topics in Engineering
Double session: 48 credit points.
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.
Co-ordinator: Dr WK Soh.

MECH903 Biomechanical Engineering
Autumn or Spring session; 6 credit points (2 hrs lecture/2 hrs laboratory/tutorial per wk).
Assessment: mid-session examination 20%, final examination 50%, project/lab report/tutorial 30%.
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).
Co-ordinator: Associate Professor A Basu.

MECH906 Experimental and Analytical Modelling
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, and compulsory assignments during session.
Stochastic processes; Random signal analysis; Correlation function; Probability functions and spectral density functions; System identification; Correlation analysis; Spectral analysis. Modelling of continuous systems using analytical methods; Lumped parameter systems; Linearisation. Solution of equations. Parameter estimation. Review of classical control techniques; Multi-input multi-output systems; Transfer functions; State space analysis; Stability analysis; Interaction and inverse Nyquist array; Optimal control.
Co-ordinator: Dr AG McLean.

MECH908 Computer Aided Design
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. Application of boundary element method; computer simulation of engineering systems; optimization techniques; computer graphics, visualisations and animations.

Co-ordinator: Dr Dr GJ Montagnier.

MECH911 Bulk Solids Handling Systems 1
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. Flow patterns of bulk solids constrained by bins and hoppers; theory of flow; determination of flow properties; hopper design; bin loads; design of feeders.
Co-ordinator: Professor PC Arnold.

MECH912 Bulk Solids Handling Systems 2
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. Further consideration concerning bin design; flow capacity for bulk solids; flow promotion; two-phase flow; effects of interstitial gas on flow of fine powders; mixing and segregation of bulk solids; design of trough belt conveyors and bucket elevators.
Co-ordinator: Professor PC Arnold.

MECH913 Pneumatic Transport of Bulk Solids
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, mid-session examination and compulsory assignments during session. Classification and selection of transport systems; flow patterns; pressure drop, minimum transport velocities; design parameters and examples; feeding and disengaging methods.
Co-ordinator: Associate Professor PW Wypych.

MECH914 Hydraulic Transport of Bulk Solids
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials/lab).
Assessment: 2 hr final examination. Other short examinations, tutorials/assignments may be incorporated in the final assessment. Properties of slurries, slurry classification; flow behaviour, flow predictions, friction losses; system equipment, system design & operation; economics; wear of equipment & material degradation.
Co-ordinator: Dr AG McLean.

MECH917 Air Conditioning and Refrigeration
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. Air conditioning of buildings; design heat load calculation; plant sizing and design; refrigeration plant components; thermo­dynamic analysis and design.
Co-ordinator: Dr P Cooper.

MECH919 Advanced Topics in Mechanical Engineering 1
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. 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.
Co-ordinator: Dr Dr P Cooper.

MECH920 Numerical Methods in Mechanical Engineering
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. 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.
Co-ordinator: Dr WK Soh.

MECH921 Hydrodynamics
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. Applications of complex potential; unsteady fluid flows; foil theory and applications; cavitations and discontinuous flows; body hydrodynamics.
Co-ordinator: Dr WK Soh.

MECH922 Energy Technology
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. Evaluation of alternate fuels and energy sources, energy management and audits, conventional and advanced energy systems, alternate and renewable energy source evaluation, remote area power supplies, energy generation and utilisation environmental considerations.
Co-ordinator: Dr AG McLean.

MECH924 Continuum Mechanics
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session. An introduction to tensor analysis, classical theory of elasticity, fluid mechanics, thermodynamics of solids, thermoelasticity, viscoelasticity, plasticity, finite deformation theory.
Co-ordinator: Associate Professor A Basu.

MECH925 Advanced Fluid Power
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
Fluid power components; circuit design; analysis of transmission, valve-controlled and feedback systems; electronic controls; vibration and transient response.

Co-ordinators: Associate Professor AK Tieu.

MECH926 Applied Fluid Mechanics
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
A study of applied fluid mechanics which will include the analysis, design and control of a selection of fluid flow systems in industry.
Co-ordinator: Dr WK Soh.

MECH927 Physical Processing of Bulk Solids
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials/lab).
Assessment: 2 hr final examination. Other short examinations, tutorials/assignments may be incorporated in the final assessment.
Bulk solids description and characterisation; crushing, grinding, thickening, separation, precipitation, filtration, blending, tableting, briquetting and agglomeration, sizing and classification; introduction to beneficiation; drying; intermediate processing and handling; control and instrumentation; dust generation and abatement.
Co-ordinator: Dr AG McLean.

MECH928 Finite Element Techniques in Mechanical Engineering
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
Co-ordinator: Professor MP West.

MECH929 Advanced Topics in Mechanical Engineering
As for MECH919.

MECH930 Mechanical Vibration and Condition Monitoring
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
Co-ordinator: Associate Professor AK Tieu.

MECH931 Friction, Lubrication and Wear
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
Co-ordinator: Associate Professor AK Tieu.

MECH932 Reliability Systems Management
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination. Other examinations, tutorials and assignments may be incorporated in the final assessment.
Failure modes and rates, reliability testing, redundancy, maintenance systems, design for reliability, failure interactions, systems safety analysis, reliability management.

MECH933 Solar Energy
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
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.
Co-ordinator: Dr GJ Montagner.

MECH934 Advanced Manufacturing Processes
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
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.
Co-ordinator: Professor G Arndt and Associate Professor V Stewart.

MECH935 Integrated Manufacturing Systems*
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
CIM concepts and applications; FMS; computer-process interfacing, monitoring and control; computer-aided quality control; component handling systems; human interface the manufacturing system; future trends, global and environmental aspects.
Co-ordinator: Dr DP Saini.

MECH936 Systems Modelling and Simulation in Manufacturing
Autumn or Spring session; 6 credit points (42 hrs lectures/lab).
Assessment: final examination and compulsory assignments during session.
Modelling concepts; simulation concepts; basic simulation modelling; complex simulation modelling; random number generator; probabilistic input distribution; output data analysis; model validation; shop floor operation simulation; production planning simulation.
Co-ordinator: Dr P Cooper.

MECH938 Economic Optimisation in Engineering
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination and compulsory assignments during session.
Cost analysis and control, time value of money operations, measuring the work of investments, comparison of alternatives, depreciation and income tax, economic analysis of projects, forecasting, productivity, appraisal, break-even sensitivity and risk analysis, inventory and queuing problems, project management and operations research, contractual bidding and legal considerations.
Co-ordinator: Professor M West.

MECH940 Rotational Drives and Transmission
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials/lab).
Assessment: 2 hr final examination. Other short examinations and assignments will be incorporated in the final assessment.
Mechanical drive system load matching; prime mover and load characteristics, drive and transmission component characteristics, constant and variable speed drives; harmonics and resonances; control and instrumentation; prime mover and load audits; system life cycle costs; system design; load sharing; system noise and heat generation.
Co-ordinator: Dr A McLean.

MECH939 Advanced Topics in Mechanical Engineering 3
As for MECH919.

MECH942 Expert Systems in Manufacturing
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials/lab).
Assessment: final examination and compulsory assignments during session.
Design; knowledge-based systems; knowledge representation; shell development; decision support systems; dealing with uncertainty; mechanical reasoning; consulting systems; intelligent process automation and management; future trends.

MECH944 Heat Transfer 2*
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials/lab).
Assessment: final examination and compulsory assignments during session.
Conduction: review of one-dimensional heat conduction and fin theory; analysis of two-dimensional and transient heat conduction using analytical and numerical methods. Convection: review of fundamentals of laminar and turbulent heat transfer; free convection; flow over tube banks; design and selection of heat exchangers. Two-phase heat transfer: nucleate and film boiling; pool boiling and boiling in tubes; film and dropwise condensation.
Co-ordinator: Dr P Cooper.

*Not on offer in 1997.
MECH945 Bulk Solids Handling Systems 3
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorial).
Assessment: final examination and compulsory assignments during session.
Two phase solids flow; control and instrumentation of solids flow; feeding of fine bulk solids; mechanical conveyors and feeders, materials handling plant project management; materials handling plant design; maintenance and operation; flow of very cohesive, wet and fibrous bulk solids; container wall loads.
Co-ordinator: Dr AG McLean.

MECH949 Advanced Computer Control of Machines and Processes
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorial).
Assessment: final examination and compulsory assignments during session.
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.
Co-ordinator: Dr F DeBoer.

MECH950 Advanced Robotics
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorial).
Assessment: final examination and compulsory assignments during session.
Design of advanced robot structures and control systems, modelling of sensor-based robot systems, application of artificial intelligence in robot control.

MECH951 Dissertation
24 credit points.

MECH955 ME Major Thesis
48 credit points.

MECH956 Dissertation
Autumn or Spring; 12 credit points.

MECH957 PhD Major Thesis
48 credit points.

MECH960 Industrial Quality Management
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, other examinations, projects, tutorials and assignments may be incorporated in the final assessment.
Topics to be covered include: process capability; statistical process control and capability case-studies; JIT (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 benchmarking indicators.
Co-ordinator: Professor G Arndt and Associate Professor V Stewart.

MECH961 Quality Improvement Systems and Implementation
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, other examinations, projects, tutorials and assignments may be incorporated in the final assessment.
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 organizations; audit procedures for TQM.
Co-ordinator: Professor G Arndt and Associate Professor V Stewart.

MECH963 Industrial Quality Technology
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination. Other examinations, projects, tutorials and assignments may be incorporated in the final assessment.
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.
Co-ordinator: Associate Professor V Stewart.

MECH965 Quality in Engineering Design
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, other examinations, projects, tutorials and assignments may be incorporated in the final assessment.
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.
Co-ordinator: Associate Professor G Arndt and Associate Professor V Stewart.

MECH967 International Quality Techniques
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, projects and assignments may be incorporated in the final assessment.
An international perspective on quality, with a comparison of the quality techniques employed in the major regions of the world. The historical evolution, development, application methodology and integration of these techniques within the cultural, political and industrial environment of various regions/countries are addressed.

MECH970 Maintenance Management
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination. Other short examinations, assignments and laboratory reports may be incorporated in the final assessment.
Overall perspective for maintenance in business context; Maintenance philosophies; Evolution of the need for maintenance management; Cost & profit drivers in maintenance; Maintenance organisation department structure (Resource and administrative); Maintenance documentation & computer control; Quality assurance in maintenance; Implementation of maintenance planning; Human factors & motivation skills in maintenance environment; TQM Aspects: Improvement methodology (Plan-Do-Check-Act).
Co-ordinator: Mr R Dwight.

MECH971 Systems Analysis for Maintenance
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination. Other short examinations, assignments and laboratory reports may be incorporated in the final assessment.
Maintenance Concept Design Methodology, Reliability Theory, Data Recordings and Analysis, Identification and Analysis of Failure Modes, Maintenance Rate Selection, Preventative Replacement Policies, Optimisation of Inspection Frequencies, Clustering of Tasks, Opportunity Maintenance, Specification of Resource Requirements.
Co-ordinator: Mr R Dwight.

MECH972 Condition Based Maintenance
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination. Other short examinations, assignments and laboratory reports may be incorporated in the final assessment.
Overview of fault diagnosis techniques (electrical-mechanical-computer); Identification of critical plant, failure types-modes. Diagnosis documentation, tables, and algorithms; Maintenance history documentation costs; Maintenance strategies; Taguchi methods for successful applications; Sensor technology overview; Condition monitoring strategy, techniques and organisation; Automation aspects in condition monitoring; Expert-AI systems; Costs & problems associated with condition monitoring; Decisions on the periodicity of condition monitoring; Case studies.
Co-ordinator: Associate Professor A K Tieu.

* Not on offer in 1997.
MECH973 Systems Engineering and Life Cycle Management
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination. Other short examinations, assignments and laboratory reports may be incorporated in the final assessment.


Co-ordinator: Associate Professor V Stewart.

MECH974 Information Systems in Maintenance Management
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination. Other short examinations, assignments and laboratory reports may be incorporated in the final assessment.

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; Distributed versus centralised computing; Computerisation of maintenance functions; Maintenance planning, appropriate costing and budget systems, control, Maintenance history records, condition monitoring equipment, spare part inventory and control; Creation of user application software for various aspects of maintenance management; Survey and critical assessment of standard available maintenance related software packages.

Co-ordinator: Professor MP West.

MECH975 Maintenance in Manufacturing Industry
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination. Other short examinations, assignments and laboratory reports may be incorporated in the final assessment.

Overview of manufacturing environment, industries and processes; Historical development and role of maintenance; Specialised technologies, e.g. transportation and material handling equipment; Storage and retrieval equipment; Problems associated with the production-maintenance interface; Selection of maintenance strategy for particular manufacturing environments (e.g. job, batch and mass production, process industries); Fault diagnosis in computerised manufacturing machinery; Total productive maintenance; Historical and international perspective; Japanese input: "Kaizen" in maintenance; TQM and TPM; Human considerations; TPM methodology; Implementation of TPM; Developmental strategy, stage, mand steps; Importance of issues such as cleaning, losses, overall equipment effectiveness; Economic and organisational issues; Case studies, Australian application.

MECH976 Maintenance System Design and Management
Autumn or Spring session; 6 credit points (42 hrs lecture/tutorial).
Assessment: Assignments, group assignments and final examination.

Topics covered include: 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.

Co-ordinator: Mr R Dwight.

MECH977 Advanced Topics in Maintenance 1
Autumn or Spring session; 6 credit points. Assessment: to be advised.

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 or Spring session; 6 credit points. Assessment: to be advised.

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 or Spring session; 6 credit points (42 hrs lecture/tutorial).
Assessment: final examination and compulsory assignments during session.


Co-ordinator: Associate Professor V Stewart.

MECH981 Concurrent Design
Autumn or Spring session; 6 credit points (42 hrs lecture/tutorial).
Assessment: final examination and compulsory assignments during session.


Co-ordinator: Associate Professor V Stewart.

MECH982 Bulk Solids Characterisation & Particulate Mechanics
Autumn or Spring session; 6 credit points. Assessment: Assessable task will be required at the completion of the module.

Concepts of particle mechanics (failure criteria, models to represent such criteria as particle size and distributions, particle shape, compressibility, flexibility, internal friction, cohesion, adhesions, 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.

Co-ordinator: Professor P Arnold.

MECH983 Storage and Flow of Bulk Solids
Autumn or Spring session; 6 credit points. Assessment: Assessable task will be required at the completion of the module.

Basic concepts of storage; flow and feeding of bulk solids; use of flow properties to determine hopper geometrics; bin wall loads; feeding and discharge systems, feeder loads; chute design; flow rate prediction; segregation and blinding; dust suppression systems; stock pile systems; case studies.

Co-ordinator: Professor P Arnold.

MECH984 Belt Conveying
Autumn or Spring session; 6 credit points (modular basis over 5 days).
Assessment: Assessable task will be required at the completion of the module.

Belt conveying systems; properties of conveyor beltings; tension analyses (static and dynamic); drive systems; loading and unloading belts; trajectory prediction; transfer chute design novel belt systems; economic analyses.

Co-ordinator: Professor P Arnold.

MECH985 Dust and Fume Systems
Autumn or Spring session; 6 credit points. Assessment: Assessable task will be required at the completion of the module.

Basic concepts; terminology and problems; National 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.

Co-ordinator: Professor P Arnold.

MECH986 Instrumentation and Control Systems for Bulk Solids
Autumn or Spring session; 6 credit points. Assessment: Assessable task will be required at the completion of the module.

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 accuracies; interfacing with PLC's and computers; case studies.

Co-ordinator: Professor P Arnold.
MECH987 Advanced Topics in Bulk Solids & Particulate Technologies 1  
*Autumn or Spring session; 6 credit points.*  
*Assessment: Assessable task will be required at the completion of the module.*  
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.  
*Co-ordinator: Professor P Arnold.*

MECH988 Advanced Topics in Bulk Solids & Particulate Technologies 2  
*Autumn or Spring session; 6 credit points.*  
*Assessment: Assessable task will be required at the completion of the module.*  
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.  
*Co-ordinator: Professor P Arnold.*

MECH989 Advanced Topics in Bulk Solids & Particulate Technologies 3  
*Autumn or Spring session; 6 credit points.*  
*Assessment: Assessable task will be required at the completion of the module.*  
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.  
*Co-ordinator: Professor P Arnold.*

MECH990 Project in Bulk Solids and Particulate Technologies  
*Autumn or Spring Session; 12 credit points.*  
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.  
*Co-ordinator: Professor P Arnold.*
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 in 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

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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For further details, see Course Requirements below.
POSTGRADUATE PROGRAMS IN MINING ENGINEERING
leading to the Honours Master of Engineering.

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For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

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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 and Mining 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 and Mining Engineering comprise:

(i) the subject MINE951 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.

Aims

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 54 credit points: of which 24 credit points may be from 300/400 level subjects and 30 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. A maximum of 18 credit points will be in Business Management or Science and Engineering with each candidate’s course content being approved by an academic advisor.
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 applying for entrance to be assessed by the Head of the Department of Civil and Mining Engineering and the Head of the Department of Geology.

Master in Mining Management

This course will be offered on a part-time basis and will require a minimum study period of two years with full advanced standing. Candidates will be required to complete 96 credit points of work, a maximum of 24 credit points from 300/400 level subjects and a minimum of 24 credit points by research. Advanced standing of up to 24 credit points of 300/400 level subjects may be granted on the basis of to 24 credit points of 300/400 level subjects may be granted on the basis of previous qualifications.

Candiates with a technical background will be advised to undertake at least 50% of the formal coursework from Business Management whilst those with a business management background will be encouraged to undertake at least 50% of the postgraduate level coursework from Science and Engineering. The research project will be industry-based and tailored to the candidate's workplace requirements.

Entry Requirements

Entry into the Master of Mining Management requires a four year degree of appropriate standard from a recognized tertiary institution. 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 of 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 is awarded the Graduate Diploma in Engineering and who subsequently satisfies the requirements for the 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 Masters degree.

SUBJECT DESCRIPTIONS

MINE899 Advanced Topics in Mining Engineering

Double session (A): 48 credit points.
Computer aided analysis and design; computer methods; ore reserve estimation; finite element techniques; hydrology; geotechnical techniques; reliability; rock mechanics; simulation; structural analysis and design; structural topology; mine planning.
Co-ordinator: Dr I Porter.

MINE901 Transportation of Minerals and Personnel

Autumn or Spring session; 6 credit points.
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.
Co-ordinator: Associate Professor N I Aziz.

MINE902 Advanced Studies in Mining Engineering

Autumn or Spring session; 6 credit points.
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.
Co-ordinator: Associate Professor E Y Baafi.

MINE903 Simulation of Underground Mining Operations and Problems

Autumn or Spring session; 6 credit points.
Assessment: assignments and examinations. Including coal reserves, mining dimensions, surface effects, cost benefit effects of operation and management and economic evaluation and feasibility of a mining enterprise.
Co-ordinator: Associate Professor E Y Baafi.

MINE904 Rock Mechanics

Autumn or Spring session; 6 credit points (42 contact hrs).
Assessment: assignments and examinations. Fundamentals of strata mechanics together with advanced topics including engineering technology and rock mechanics aspects of coal mining strata control. Design aspects of mine structures, such as mine pillars, gate roads and longwall mining. Instrumentation in providing for the safe design of the mine opening. Rock and cable bolting techniques and powered support design.
Co-ordinator: Dr B Indraratna.

MINE906 Mining Engineering Techniques

Autumn or Spring session; 6 credit points.
Assessment: assignments and examinations. A selection of advanced laboratory and field exercises in mine support, temporary and long term; in situ testing, laboratory testing, rock properties and parameters; mine design and plant related to extraction areas.
Co-ordinator: Professor R N Singh.

MINE907 Gases in Mines

Autumn or Spring session; 6 credit points. Assessment: assignments and examinations. Natural occurrence and prediction of rockbursts; collection of mine gases; mine atmospheres; gases; dusts; fires; rescue and recover; computer analysis.
Co-ordinator: Associate Professor N I Aziz.

MINE908 Mine Fires and Explosions

Autumn or Spring session; 6 credit points. Assessment: assignments and examinations. Formation of coal dust; explosibility of coal dust; initiation of explosions; methane accumulation; development and propagation of explosion wave front; pressure pulse and flame front; prevention and control of coal dust formation; barriers, active and passive; experimental galleries; rescue and recovery of both mine and personnel; resultant fires; computer modelling of resulting reactions in ventilation; current research; relevant legislation.
Co-ordinator: Associate Professor N I Aziz.

MINE909 Mine Subsidence

Autumn or Spring session; 6 credit points. Assessment: assignments and examinations. Causes of mine subsidence; continuum mechanics theories; determination of trough subsidence; subsidence prediction; measurement techniques; design of structures in mine subsidence active area; methods of reducing subsidence damage; application of computers for subsidence modelling; relevant legislation.
Co-ordinator: Dr I Porter.

MINE911 Mine Service Engineering

Autumn or Spring session; 6 credit points (42 contact hrs plus field visits). Assessment: assignments and examinations. Advanced studies in power reticulation in mines; economics of power reticulation; maintenance engineering; equipment monitoring and preventive maintenance; quality control and equipment specifications; current research.
Co-ordinator: Professor R N Singh.

MINE941 Environmental Management for the Mining Industry

Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments. 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 the 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.

Co-ordinator: Associate Professor N I Aziz.

MINE942 Safety in the Mining Industry
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
Safety Management, hazard & Risk analyses; Safety Hazard identification; Management Techniques (MORT STEP); Safety Audits; Statistics; HAZOP - hazard & operability analysis; maintenance & 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.
Co-ordinator: Associate Professor N I Aziz.

MINE943 Drilling and Blasting
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
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.
Co-ordinator: Associate Professor N I Aziz.

MINE944 Application of Computers in the Mineral Industry
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
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.
Co-ordinator: Associate Professor E Y Baafi.

MINE945 Mining Management Project
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
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.
Co-ordinator: Associate Professor N I Aziz.

MINE946 Placer Technology
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
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; methods; project evaluation; environmental implications and pollution control technology.
Co-ordinator: Associate Professor N I Aziz.

MINE947 Introductory Computing and Statistics for Geologists and Mining Engineers
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
Computer hardware for geological data processing; peripheral devices; operating systems; VAX/VMS, IBM, VM/XA, MS DOS, UNIX, programming in Fortran and C; geologists and mining engineers; data base packages and macros.
Co-ordinator: Associate Professor E Y Baafi.

MINE948 Mine Ventilation and Environment
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
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; dust in mine air and its control; mine climate and its control; ventilation planning.
Co-ordinator: Associate Professor N I Aziz.

MINE952 Geostatistics and Mine Planning
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
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.
Co-ordinator: Associate Professor E Y Baafi.

MINE953 Mine Water - Origin, Inflow Predictions and Control
Annual; 6 credit points (42 contact hrs). Assessment: assignments and examinations.
Water problems in surface and underground mining; hydrogeological factors affecting mine water inflow; hydrogeological considerations in origin of mine water; hydrogeological 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.
Co-ordinator: Professor R Singh.

MINE954 Strata Control from First Principles to Practice
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
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.
Co-ordinator: Professor R Singh.

MINE956 Mineral Law
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
Co-ordinator: Associate Professor N I Aziz.

MINE958 Environmental Impact of Mining and Mineral Operations
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
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.
Co-ordinator: Professor R N Singh.

MINE962 Management Perspectives
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
What is Management?, Managing individuals, managing groups, managing organisations, managing information, managing operations, managing decision making.
Co-ordinator: Associate Professor N I Aziz.

MINE963 Economic Decision Making
Annual; 6 credit points (42 contact hrs). Assessment: 4 major assignments.
Introduction to Economic Concepts; demand and supply; market and consumers; firms and market structures; welfare economics and government intervention; international economics; macroeconomics and national income analysis; national economic policy, cost-benefit analysis and expenditure decisions; business finance.
Co-ordinator: Associate Professor N I Aziz.
MINE964 Management of Innovation
Annual; 6 credit points (42 contact hrs).
Assessment: 4 major assignments.
Innovation and innovators, technology and innovation; opportunity analysis; marketing and innovation; the business plan, management of innovation; innovations in corporations, sustaining innovations.
Co-ordinator: Associate Professor N I Aziz.

MINE965 Strategic Planning
Annual; 6 credit points (42 contact hrs).
Assessment: 4 major assignments.
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.
Co-ordinator: Associate Professor N I Aziz.

MINE971 Financial Management
Annual; 6 credit points (42 contact hrs).
Assessment: 4 major assignments.
Financial management - an overview; 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; management cost information (2); the budgeting process.
Co-ordinator: Associate Professor N I Aziz.

MINE972 Export Marketing for the Mining Industry
Annual; 6 credit points (42 contact hrs).
Assessment: 4 major assignments.
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, Europe, the Middle East, North America and South America. Marketing to government departments and private organisations.
Co-ordinator: Associate Professor N I Aziz.

MINE973 Mine Evaluation and Project Assessment
Annual; 6 credit points (42 contact hrs).
Assessment: 4 major assignments.
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.
Co-ordinator: Associate Professor N I Aziz.

MINE974 Mine Management
Annual; 6 credit points (42 contact hrs).
Assessment: 4 major assignments.
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.
Co-ordinator: Associate Professor N I Aziz.

MINE975 Evaluation in the Coal Mining Industry
Annual; 6 credit points (42 modular hours).
Assessment: continuous assessment and examination.
This course provides 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.
Co-ordinator: Associate Professor N I Aziz.

MINE976 Environmental Assessments (Audits)
Annual; 6 credit points (42 modular hours).
Assessment: continuous assessment and examination.
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.
Co-ordinator: Professor R N Singh.

MINE977 Mineral Exploration Management
Annual; 6 credit points (42 Modular hours).
Assessment: continuous assessment and examination.
Introduction to program design; review of available techniques; remote sensing techniques; airborne geophysical surveys; geophysical surveys; data interpretation; reporting and supervision; sequential exploration; definition of drill targets; budgeting and budget management.
Co-ordinator: Associate Professor N I Aziz.

MINE978 Coal Preparation
Annual; 6 credit points (42 modular hours).
Assessment: continuous assessment and examination.
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 offline analysis, overall plant control and optimisation).
Co-ordinator: Dr B Indraratna.

MINE979 Soil and Rock Construction Materials
Annual; 6 credit points (42 modular hours).
Assessment: continuous assessment and examination.
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, limestone and cementitious materials.
Co-ordinator: Associate Professor N I Aziz.

MINE980 Slope Stability for Surface Mining
Annual; 6 credit points (42 modular hours).
Assessment: continuous assessment and examination.
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 that 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.
Co-ordinator: Professor R N Singh.

GEOS921 Environmental Geology
Spring or Autumn Session; 6 credit points (42 contact hrs).
Assessment: 4 major assignments.
Refer to Faculty of Science, Geology subjects course description.

MINE950 Dissertation
Double session (A); 12 credit points.
Co-ordinator: Dr I Porter.

MINE951 Dissertation
Double session (A); 24 credit points.
Co-ordinator: Associate Professor E Y Baafi.

MINE955 ME Major Thesis
Double session (A); 48 credit points.
Co-ordinator: Associate Professor N Aziz.

MINE957 PhD Major Thesis
Double Session (A); 48 credit points.
Co-ordinator: Professor R N Singh.
FACULTY OF
HEALTH AND
BEHAVIOURAL
SCIENCES
FACULTY OF HEALTH AND BEHAVIOURAL SCIENCES

FACULTY OFFICE

Dean: Professor Charles Watson  
Sub Dean: Dr Graham Ward  
Executive Officer: Carole Peacock  
Professional Officer: Paddy Fitzgerald  
Administrative Assistant: Bev Moate  
(042) 21 3363  
(042) 21 4060  
(042) 21 3492

MEMBER UNITS

The Faculty of Health and Behavioural Sciences is made up of the following Units:

- Biomedical Science
- Nursing
- Psychology
- Public Health and Nutrition
- Medical Research 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 Departments of Public Health and Nutrition, and Psychology.

POSTGRADUATE PROGRAMS

Postgraduate programs are available in the Faculty in the following areas:

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<td>Health Policy and Management</td>
<td>260</td>
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<tr>
<td>Indigenous Health Studies</td>
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<tr>
<td>Mental Health</td>
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<tr>
<td>Nursing</td>
<td>245</td>
</tr>
<tr>
<td>Nutrition and Dietetics</td>
<td>262</td>
</tr>
<tr>
<td>Occupational Health and Rehabilitation</td>
<td>262</td>
</tr>
<tr>
<td>Public Health</td>
<td>263</td>
</tr>
</tbody>
</table>
FULL TIME STAFF

Dean
Professor Charles Watson, BScMed(Hons) Syd, MB BS Syd, MD UNSW, PAFPHM

Sub-Dean
Dr Graham R Ward, TTC ASPE NZ, BSc Be(Sc) MSc(Hons) Mass, PhD MCM, NZ, MACE, FIBS Camb, FABS US

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Noia Hurt
Marion Harvey

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Herb Groller, BEd (PE), MSc(Hons)

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Ian Davidson, MBBS FACRM
Robert Moses, MBBS FRACP
Geoff Speidwinde, MBBS FACRM

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John Sibbald, SRN, NZDipN, BSc, PhD

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Margaret Garry, RN, BA Syd
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Tania Harrison

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Beverly M Walker, BA PhD Syd, MAPNS

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Jeff Wragg, BA PhD MA, MAPNS

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Steven Roodenrys, BA PhD UNSW

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Karen Scott, BEd, MEd

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Dayna Meades
Kathy Wilson

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Trevor Jones
Russell Noble
Michael Jones

Honorary Fellows
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Evian Gordon, BSc MBRCCh PhD Wits
Sarah McDonald, BA MFysc Syd, MAPNS
Don L Mason, BA MA San Fran State Coll, PhD Netada
Graham Trembath, BA MA DipPsych Syd

NORTHFIELDS CLINIC

Director
John Freestone, BA UNS, DipPsych Syd, DipEurStud, MAPSS

Assistant Director
Katarina Drauzenka, BA

Administrative Assistant
Helen Kouksenko

DEPARTMENT OF PUBLIC HEALTH AND NUTRITION

Departmental Head and Associate Professor of Public Health
Charles Watson, BScMed(Hons) Syd, MD UNSW, PAFPHM

(Acting Head of Department)
Christine E Ewan, MB BS PhD MA Syd, FAPPPHM

Associate Professor
Paolo Ricci, BS LA Salle, MS PhD Drex, MA Temple, MPA Harz, LLM Leices
Kathleen Eager, MA Syd, GDipEdStud SCAE

Professorial Fellow
Bernie Amos, AO, MB BS, FRACP, FRACMA, FCHSE
MEDICAL RESEARCH UNIT

Professor & Head of Unit
Dennis Calvert, BMedSc MBChB MD Otago, MCB, FRACP, FRCPA, FRCPATH, FACHSE, FAFPHM

Associate Professor
Robyn Holden, RPN, DipAppSc Phillip Inst, BA LaT, MA, PhD Deakin

Lecturer
Barbara Meyer, BSc (Hons) PhD Monash

Administrative Assistant
Elaine Knight

FACULTY VISITING COMMITTEE

Hon Stephen Martin MP, Shadow Minister for Sport and Tourism, Shadow Minister for Veterans Affairs
Mr Ian Southwell, Chief Executive Officer, Illawara Area Health Service
Dr Garry Egger, Health Promotion Consultant
Dr Gavin Frost, Deputy Chief Health Officer, NSW Health Department
Ms Paula Blanche, Director of Nursing, Illawarra Regional Hospital
Dr Aileen Plant, Course Director, Master of Applied Epidemiology Program, National Centre for Epidemiology and Population Health
Professor Barbara Gillam, School of Psychology, University of New South Wales
Ms Iris McCleod, Senior Aboriginal Health Worker, Community Health Services
BIOMEDICAL SCIENCE

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Science by Coursework and Research
3. Graduate Diploma in Science (Exercise Science)

CURRENT RESEARCH AREAS

The Department's research activities are placed under the general areas of metabolic and cardiorespiratory physiology, pathology, human performance, and movement rehabilitation.

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN HUMAN MOVEMENT SCIENCE

leading to the degree of Graduate Diploma in Science (Exercise Science).

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>BExS402</td>
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<tr>
<td>BExS411</td>
<td>Practicum in Exercise Science A</td>
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</tr>
<tr>
<td>BExS412</td>
<td>Practicum in Exercise Science B</td>
<td>8</td>
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<td></td>
<td>plus a minimum of 24 credit points of approved subjects</td>
<td></td>
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</tbody>
</table>

POSTGRADUATE PROGRAM IN BIOMEDICAL SCIENCE & HUMAN MOVEMENT SCIENCE

leading to the degree of Master of Science (Honours).

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
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<tr>
<td>GHMA906</td>
<td>Research Projects</td>
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<tr>
<td>GHMA909</td>
<td>Practicum</td>
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<tr>
<td>GHMA913</td>
<td>Special Topics</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>plus a minimum of 24 credit points of approved subjects</td>
<td></td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GHMA999</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in GHMA999 Major Thesis

2. HONOURS MASTER OF SCIENCE

The primary aim of the Honours Masters program in Biomedical and Human Movement Science 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 credit points to graduate. The credit points will be divided into 48 credit points of coursework and 48 credit points of research.

Those students with a degree of at least Honours Class II, Division 1 level will be required to complete 48 credit points of research.

3. GRADUATE DIPLOMA IN SCIENCE (EXERCISE SCIENCE)

This one-year Graduate Diploma is designed principally for graduate students to gain a professional orientation in the area of Exercise Science. Students must consult with the Department for approval of entry. The specific combination of elective subjects will be determined after discussion and will take into account the previous background and needs of the student and whether the subjects selected are consistent with the University's Course Rules for Graduate Diplomas.

SUBJECT DESCRIPTIONS

Where textbooks and/or subject coordinators are not specified, details will be made available at a later date.

GHMA900 Applied Cardiovascular Physiology *

Autumn or Spring session; 8 credit points (56 contact hrs).
Pre-requisites BMS202 or approved subject.
Assessment: project 60%, labs 15%, presentation 5%, mid-term examination 20%.
This subject focuses on the cardiovascular system, describes and provides access to a range of noninvasive indices of cardiovascular function, and examines the relationships between exercise, physical and psychological stressors, chronic disease, and cardiac function. At the finish of the course students will have had in depth experience with noninvasive measures of cardiac function such as impedance cardiography, beat-by-beat blood pressure, spectral analysis of ECG, and ECG electrophysiology.

GHMA904 Advanced Study in Exercise Physiology *

Autumn or Spring session; 8 credit points (3 hr lecture plus laboratory work each wk).
Assessment: semester paper 30%, seminar presentations 15%, seminar preparation and involvement 10%, and major research project 45%.
The aim of the assessment is to evaluate the understanding of essential core components, which is consistent with both professional training and the quantification of the preparedness of the student to undertake research in exercise physiology.
This subject shall involve seminar-based, detailed study in current topics in exercise physiology as they pertain to research in the broad areas of exercise, health and disease. While certain key topics will be maintained as core components, the subject material and supplementary topics will change regularly to reflect recent trends in research. Subject core topics include: gas exchange kinetics; fatigue mechanisms; acid base regulation; muscle plasticity.

* Not on offer in 1997
Textbooks: A collection of essential readings (research and review papers), will be held in the reserve section of the library. All students are expected to copy these papers for class use.

Co-ordinator: Dr NAS Taylor.

GHMA906 Research Projects
Autumn or Spring session; 8 credit points (28 hrs workshop per session).
Assessment: substantial report and seminar.
This subject requires the student to research in detail a problem identified in an approved area of Biomedical or Human Movement Science. Students will conduct their research project in a selected staff member's research laboratory.

Co-ordinator: Dr Arthur Jenkins.

GHMA909 Practicum
Autumn or Spring session; 8 credit points (field work plus 28 hrs of university-based laboratory/workshops).
Pre-requisite: approved subjects in Human Movement Science.
Assessment: Substantial report and seminar.
Students will undertake a period of supervised research with selected staff members and will provide a substantial report on this experience.

Co-ordinator: Dr Arthur Jenkins

GHMA911 Advanced Injury Prevention and Rehabilitation*
Autumn or Spring session; 8 credit points (56 hrs of lectures, seminars and laboratory sessions).
Pre-requisite: Approved subjects in Human Movement Science.
Assessment: assignment work, mid session and final examination.
An extension of BMS351 to provide opportunities to apply the skills of the human movement scientist to the evaluation of movement capability, the identification of movement disorders, and the design of appropriate procedures to restore and enhance individual movement capacities of a variety of movement settings.

Co-ordinator: Mr O Curtis.

GHMA913 Special Topics
Autumn or Spring session; 8 credit points. Individual directed study with a selected member of staff.

Co-ordinator: Dr Arthur Jenkins

GHMA914 Ergonomics
Autumn or Spring session; 8 credit points (56 hrs of lectures, seminars and laboratory sessions).
Assessment: assignment work, laboratory reports and final examination.
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.

Textbooks:

Co-ordinator: Dr M Brown.

GHMA999 Major Thesis
Multi-session subject; 48 credit points.

* Not on offer in 1997.
### 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 (Development 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

### 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
- Migrant health
- Indigenous Health Studies
- and other areas relevant to nursing

### SCHEDULE OF PROGRAMS

#### 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.

<table>
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<tr>
<th>Number</th>
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<tbody>
<tr>
<td>GHB900</td>
<td>Nursing: The Professional Context</td>
</tr>
<tr>
<td>GHB902</td>
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</tr>
<tr>
<td>GHB903</td>
<td>Scientific and Quantitative Developments in Critical Care</td>
</tr>
<tr>
<td>GHB906</td>
<td>Critical Care Nursing: Reflections on Practice</td>
</tr>
<tr>
<td>GHB907</td>
<td>Fundamental Concepts in Developmental Disability</td>
</tr>
<tr>
<td>GHB908</td>
<td>Applied Behavioural Science for Developmental Disability Practice</td>
</tr>
<tr>
<td>GHB909</td>
<td>Multiple Disability</td>
</tr>
<tr>
<td>GHB910</td>
<td>Contemporary Issues in Developmental Disability</td>
</tr>
<tr>
<td>GHB923</td>
<td>Legal and Professional Issues</td>
</tr>
<tr>
<td>GHB930</td>
<td>Clinical Education</td>
</tr>
<tr>
<td>GHB931</td>
<td>Clinical Supervision</td>
</tr>
<tr>
<td>GHM902</td>
<td>Communication and Education</td>
</tr>
<tr>
<td>GHD906</td>
<td>Quality Management for Health Services</td>
</tr>
<tr>
<td>NURS225</td>
<td>Pathophysiology for the Registered Nurse</td>
</tr>
<tr>
<td>NURS322</td>
<td>Nursing Resources Management</td>
</tr>
<tr>
<td>NURS361</td>
<td>Professional Nursing</td>
</tr>
</tbody>
</table>

Normally subjects will be selected to form a coherent course of study in a specialised area.

#### SCHEDULE 1

Graduate Certificate in Nursing

24 credit points from the subjects listed below:

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<td>Legal and Professional Issues</td>
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<tr>
<td>GHB930</td>
<td>Clinical Education</td>
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<td>GHM902</td>
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<tr>
<td>NURS361</td>
<td>Professional Nursing</td>
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</table>

#### SCHEDULE 2

Graduate Certificate in Indigenous Health Studies (24 credit points) subjects

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>GHMB904</td>
<td>Modalities of Care: Mental Health</td>
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<tr>
<td>GHMB936</td>
<td>Public Health Nutrition</td>
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<tr>
<td>GHMB940</td>
<td>Indigenous Family Studies</td>
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<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
</tr>
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</table>
POSTGRADUATE PROGRAMS IN NURSING (cont'd)

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.

Number Subject Credit Points

SCHEDULE 3

Graduate Diploma in Nursing
Core Subjects
(Students wishing to obtain a Graduate Diploma should enrol in Graduate Certificate and apply for a change of program to continue in 1998 with the revised Graduate Diploma program.)

SCHEDULE 4

Graduate Diploma in Indigenous Health Studies (48 credit points) subjects
Schedule 2: The Graduate Certificate in Indigenous Health Studies (24 credit points) plus
GHMD902 Communication and Education 6
GHMD904 Epidemiology 6
GHMB913 Drug Problems and Issues 6
GHMD941 Indigenous Health Patterns 6

SCHEDULE 5a

Graduate Diploma in Science (Developmental Disability)
Core and specialisation subjects - compulsory as listed below
GHMD983 Statistics in Health Research 6
GHMD984 Health Research Methodology 6
GHMB907 Fundamental Concepts in Developmental Disability 6
GHMB908 Applied Behavioural Science for Developmental Disability Practice 6
GHMB909 Multiple Disability 6
GHMB910 Contemporary Issues in Developmental Disability 6

The remaining two (2) subjects (12 credit points) are electives, normally chosen from the following subjects:
SOC103 Sociology 1A 6
SOC205 Sociology of the Family 6
EDUF101 Child Growth and Development 6
GHMB900 Nursing: The Professional Context 6

SCHEDULE 5b

Master of Science (Developmental Disability)
48 credit points from Schedule 5a plus:
GHMB998 Minor Thesis 24

SCHEDULE 6

Master of Nursing (48 credit points) subjects
Core subjects: 24 credit points
GHMD983 Statistics in Health Research 6
GHMD984 Health Research Methodology 6
GHMB905 Special Topic in Nursing 12

Elective subjects:
GHMB997 Major Project 24

or

Select a minimum of 12 credit points from Schedule 1 plus a maximum of 12 credit points may be chosen from Schedule 6a.

Schedule 6a

i) 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 6
GHMD912 Health Promotion 6
GHMD925 Aboriginal Health Issues 6
GHMD939 Human Nutrition in Health and Disease 6
GHMD981 Maternal and Child Health in Developing Countries 6

ii) Psychology
GHMC962 Counselling Psychology 8
POSTGRADUATE PROGRAMS IN NURSING (Cont’d)
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 Nursing (Honours), Doctor of Philosophy

### Number | Subject | Credit Points
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#### iii) Science and Technology

<table>
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<tr>
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<tbody>
<tr>
<td>STS910</td>
<td>Gender and Body Politics</td>
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<tr>
<td>STS921</td>
<td>The Dynamics of Science and Technology</td>
<td>12</td>
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<tr>
<td>STS931</td>
<td>Risk Assessment, Health and Safety</td>
<td>12</td>
</tr>
<tr>
<td>STS935</td>
<td>The Impact of Computers and Communication Technology</td>
<td>12</td>
</tr>
<tr>
<td>STS936</td>
<td>Critical Studies in Medicine and Health Care</td>
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<tr>
<td>STS946</td>
<td>Management of Technological Change</td>
<td>6</td>
</tr>
</tbody>
</table>

#### SCHEDULE 7

**Master of Indigenous Health (72 credit points) subjects**

**Option A - Schedule 4: The Graduate Diploma in Indigenous Health Studies (48 credit points) plus**

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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</thead>
<tbody>
<tr>
<td>GHMB998</td>
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</table>

**Option B - Schedule 4: The Graduate Diploma in Indigenous Health Studies (48 credit points) plus**

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>GHMD912</td>
<td>Health Promotion</td>
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<tr>
<td>GHMB942</td>
<td>Special Topic</td>
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#### SCHEDULE 8

**Master of Science (Midwifery)**

**Specialisation (compulsory)**

<table>
<thead>
<tr>
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<tr>
<td>GHMB920</td>
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<tr>
<td>GHMB921</td>
<td>Reproductive Bioscience</td>
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<td>GHMB922</td>
<td>Psychosocial Development of the Family</td>
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<td>GHMB923</td>
<td>Legal and Professional Issues</td>
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</tr>
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<td>GIIMB924</td>
<td>Midwifery Studies</td>
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<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
<td>6</td>
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<tr>
<td>or</td>
<td>NURS224</td>
<td>Research and Design Methods</td>
</tr>
</tbody>
</table>

#### SCHEDULE 9

**Honours Master of Science (Midwifery)**

Master of Science (Midwifery) subjects plus: 48 credit points consisting of

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>GHMD984</td>
<td>Health Research Methodology</td>
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</tr>
<tr>
<td>GHMD904</td>
<td>Epidemiology</td>
<td>6</td>
</tr>
</tbody>
</table>

Two (2) optional electives to be selected from:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>GHMC962</td>
<td>Counselling Psychology</td>
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<td>GHMD912</td>
<td>Health Promotion</td>
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<tr>
<td>GHMD925</td>
<td>Aboriginal Health Issues</td>
<td>6</td>
</tr>
<tr>
<td>GHMD939</td>
<td>Human Nutrition in Health and Disease</td>
<td>6</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Health Services Planning and Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>GHMD981</td>
<td>Maternal and Child Health in Developing Countries</td>
<td>6</td>
</tr>
<tr>
<td>and</td>
<td>GHMB997</td>
<td>Major Project</td>
</tr>
</tbody>
</table>

#### SCHEDULE 10

**Honours Master of Nursing and Doctor of Philosophy**

(Repeat same enrolment each year of study)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>GHMB999</td>
<td>Major Thesis</td>
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</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 credit points 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 credit points of selected coursework subjects.

(b) Master of Nursing (Honours)

(i) carry 48 credit points advanced standing from the Graduate Diploma into the Master of Nursing (Honours);

(ii) carry 48 credit points advanced standing from the Pass Master of Nursing to the Master of Nursing (Honours) with the additional requirement of 48 credit points from thesis work; or

(iii) proceed straight into 96 credit points Master of Nursing (Honours) as per Course Rules.

v. candidates 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;

vi. a candidate for the Honours Master of Nursing will successfully complete subjects with a total value of not less than 96 credit points:

(a) 24 credit points will comprise the core subjects listed in Schedule 1;

(b) 24 credit points will be selected from Schedule 3;

(c) a thesis consisting of the results of an investigation to the value of 48 credit points;

(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 credit points.

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 project culminating in the submission of a minor thesis.

4. MASTER OF SCIENCE (MIDWIFERY)

The Master of Science (Midwifery) is designed 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 MASTERS 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 multidisciplinary 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 (Not on offer in 1997)

(a) (General Stream)

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 practice 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 rigor. 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 session: 6 credit points (3 hrs per wk).

Assessment: one seminar presentation 20%, written assignment 60%, a critical annotated bibliography 20%.

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. Topics will include the career structure for the nursing profession and the role of the nurse within this context.
GHMB902 Nursing Management  
**Spring session; 6 credit points (3 hrs per wk).**  
**Assessment:** seminar presentation 30%, class tests 15%, written assignment 5%, examination 20%.  
This subject will introduce the basic concepts of nursing administration at all levels - at the ward, middle management and at senior levels. Differences in management styles will be addressed; ward design and its impact on care delivery; and nursing care delivery assignments will be examined in detail. Nursing involvement in the public and the private sector will be examined.  
**Green J, Evaluation of Hospital Ward Design, Kensington, University of NSW Press, 1996.**  
**Co-ordinator:** Mr B Janes.

GHMB903 Scientific and Qualitative Developments in Critical Care Nursing  
**Spring session; 6 credit points (3 hrs per wk).**  
**Pre-requisite:** GHMB906.  
**Assessment:** seminar presentation 30%, class tests ECG 20%, 1 written assignment 50%.  
This subject investigates technological, biological, psychological and sociological developments that have created an impact in critical 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 a holistic nursing care framework. Pre and pro surgical as well as operative nursing developments will also be discussed in terms of the efficacy of nursing care provision. A portion of each week will be devoted to ECG interpretation.  
**Textbook:** Journal articles and portions of books will be used in lieu of a set text.  
**Co-ordinator:** Mr B Janes and Dr J Sibbald.

GHMB904 Modalities of Care: Mental Health  
**Autumn session; 6 credit points (3 hrs per wk).**  
**Assessment:** seminar presentation 20%, 1 written assignment 20%, 1 case report 40%.  
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. Additional the psychiatric nurse's role, and goals for therapy are described and analysed.  

GHMB905 Special Topic in Nursing  
**Autumn or Spring session; 12 credit points (3 hrs per wk and seminars as required).**  
**Pre-requisite:** demonstrated expertise in a special area of nursing as determined by the Head of the Department of Nursing.  
**Assessment:** seminar presentation 20%, research report 80%.  
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 to be carried out by the candidate in the subsequent major thesis subject or (ii) an investigation of a sub-topic within a major research enquiry being undertaken by the supervisor.  
**Co-ordinator:** Co-ordinator of Graduate Studies in the Department of Nursing.

GHMB906 Critical Care Nursing: Reflections on Practice  
**Autumn session; 6 credit points (3 hrs per wk).**  
**Assessment:** seminar presentation 30%, class tests ECG 20%, 1 written assignment 50%.  
This subject focuses on relevant theories, themes and issues that have a practical bearing upon critical care clinical practice, (Intensive Care, Accident and Emergency, and Coronary Care), and models of critical care nursing that address the practical aspects of this knowledge. Practical aspects include pathophysiology of the Cardiovascular, Respiratory, Nervous and Alimentary systems and Acid Base balance; and Introduction to Electrocardiograph Interpretation.  
**Textbooks:** Conover, M B, Understanding Electrocardiography, St Louis, Mosby Year Book, 1992.  
**Co-ordinator:** Mr B Janes and Dr J Sibbald.

GHMB907 Fundamental Concepts in Developmental Disability  
**Autumn session; 6 credit points (3 hrs per wk).**  
**Assessment:** seminar presentation and participation 20%, two 1500-2000 word written assignments 40% each.  
This subject will provide the basic scientific knowledge on which developmental disability practice is based. Emphasis will be placed upon the student gaining sound understanding of the nature of developmental disability and its complex interaction with society. The study of developmental disability is not merely a medical and educational issue, but rather one of wide social significance that is correctly placed in a broad social context. Knowledge of principles drawn from the behavioural sciences, psychology, and sociological perspectives is required to understand the nature of a client and the ethical and legal foundations for practice will be addressed in this course.  
**Co-ordinator:** Ms M Gerry.

GHMB908 Applied Behavioural Science For Developmental Disability Practice  
**Spring session; 6 credit points (3 hrs per wk).**  
**Pre-requisite:** GHMB907.  
**Assessment:** seminar presentation 20%, seminar paper 30% and an assignment 2500-3000 words 50%.  
Developmental disability practice makes extensive use of such skills and roles as assessment, teaching, programming, behaviour management and supportive counselling. To use these skills effectively, the student requires a knowledge of selected principles from the behavioural sciences. This subject will provide the necessary theoretical framework, together with an emphasis on practical application and problem solving.  
**Co-ordinator:** Ms I Bowen.

GHMB909 Multiple Disability  
**Autumn session; 6 credit points (3 hrs per wk).**  
**Pre-requisite:** GHMB907.  
**Assessment:** seminar presentation 20%, seminar paper 30% and an assignment 3000-4000 words 50%.  
Many clients with developmental disabilities, particularly those who are the heaviest users of specialised services, have more than one disability. The problems associated with these clients are usually more complex and long-term than those of clients with a single disability. These clients provide a particular challenge to staff and demand highly individualised and innovative care. Underlying problems of developmental disability may also be complicated by the transitions of clients through the life cycle, by the disabling effects of institutionalisation or by the socio-economic problems that frequently accompany developmental disability. This subject will address these issues.  
**Co-ordinator:** Ms I Bowen.

GHMB910 Contemporary Issues in Developmental Disability  
**Autumn and Spring session; 6 credit points (3 hrs per wk).**  
**Pre-requisite:** GHMB907.  
**Assessment:** project proposal 20%, project update presentation 20% and a project 5000-8000 words 50%.  
Developmental disability is a field that has changed constantly through its history and a field in which there is a continual questioning of current policies and practices and a searching for better alternatives. It is vitally important therefore, that practitioners in the field are willing to critically assess what is currently being done and to honestly and objectively consider other options. There are also a number of controversial issues in relation to the rights and responsibilities of people with developmental disabilities that must be addressed. This subject will require independent and thoughtful analysis of such issues and critical assessment of current practices.  
**Co-ordinator:** Ms M Gerry.

GHMB920 Applied Midwifery Studies  
**Double session (A); 12 credit points (clinical practice average 32hrs per wk).**  
**Assessment:** one viva examination 25% and 2 x 2hr examination 75%.  
This subject is designed to prepare the
student as an autonomous practitioner to care for the family throughout pregnancy, parturition and the puerperium. Initially, special emphasis will be on the well mother and healthy baby. Potential complications during childbearing and management of high risk women will be examined. Clinical practice will consist of the experiences suggested by the NSW Nurses' Registration Board.

Textbooks:
- Co-ordinator: Ms G Stamp.

GHMB921 Reproductive Bioscience
Double session (A); 8 credit points (2 hrs per wk).
Assessment: one major and one minor assignment each semester, one seminar presentation.
This subject is designed to provide students with advanced knowledge of anatomy, physiology and patophysiology 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 in terms of scientific principles. The knowledge gained from this course provides midwives with an important component of a scientific knowledge base from which to plan and provide appropriate care to their clients.

Textbook:

Co-ordinator: Dr J Sibbald.

GHMB922 Psychosocial Development of the Family
Double session (A); 8 credit points (2 hrs per wk).
Assessment: one class presentation (including written report) 20%, one critical review 40%, one discussion paper 40%.
This subject will provide the student with an in depth knowledge of theory and research, applied largely in the Australian context on psychological, sociological and cultural influences on the family and extended family networks.

Textbook:

Co-ordinator: Mr B Grenyer.

GHMB923 Legal and Professional Issues
Spring session; 6 credit points (2 contact hrs per wk).
Assessment: seminar participation, article critiques, literature reviews and essays.
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.

Textbooks:

Co-ordinator: Ms M Wallace.

GHMB924 Midwifery Studies Double session (A); 8 credit points (2 hrs per wk).
Assessment: 30 minute seminar presentation 25%, Debate 25%, Critical analysis of research papers 20% and an independent learning task 2000 words 30%.
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.

Textbooks:

Co-ordinator: Ms G Stamp.

GHMB930 Clinical Education
Autumn session; 6 credit points (3 hrs per wk).
Assessment: one seminar presentation 30%, written assignment 30%, observed clinical teaching 20%.
The subject will introduce the concepts and practice of clinical education, it will address issues related 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.

Textbook:

Co-ordinator: Ms S. Pumton-Butler.

GHMB931 Clinical Supervision and Assessment
Spring session; 6 credit points (3 hrs per wk).
Pre-requisite: GHMB930.
Assessment: various assessment techniques will be employed including seminar presentations, supervision report and a mentor project.
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. The subject will include practical experience in supervising performance and giving feedback.

Co-ordinator: Ms S. Pumton-Butler.

GHMB940 Indigenous Family Studies
Autumn session; 6 credit points (minimum contact equivalent to 3 hrs per wk (weekend delivery).
Pre-requisite: GHMB905.
Assessment: 2 x seminar presentations 20% each, 1 x major assignment 30%, examination 30%.
This subject examines traditional Aboriginal family structures, kinship systems, childbearing practices, the role of women within the Aboriginal family and the health related situations in town-camps.

Textbook:

Co-ordinator: Ms M Martin.

GHMB941 Indigenous Health Patterns
Spring session; 6 credit points (minimum contact equivalent to 3 hrs per wk (weekend delivery).
Pre-requisite: nil.
Assessment: 2 x seminar presentations 20% each, 1 x major assignment 30%, examination 30%.
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.

Textbooks:

Co-ordinator: Ms M Martin.

GHMB942 Special Topic
Autumn or Spring session; 12 credit points (2 hrs lecture/seminar).
Pre-requisite: nil.
Assessment: 2 x seminar presentations of "topic-in-progress" 20% each, Special Topic Submission 60%.
This subject examines the factors affecting illness patterns, health area 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 coordination will be scrutinised in an Indigenous context.

Co-ordinator: Ms M Martin.

GHMB997 Major Project
Autumn or Spring or Double session (A); 24 contact days (1 hr of research supervision per wk and 2 hr seminars as required to complete the project).
Pre-requisite: GHMB905 for Master of Nursing candidates.
Assessment: major project.
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.

Co-ordinator: Postgraduate Co-ordinator.

GHMB999 Minor Thesis
Autumn or Spring or Double session (A); 24 contact days (1 hr of research supervision per wk and 2 hr seminars as required to complete assessment paper).
Pre-requisite: GHMB905.
Assessment: minor thesis.
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.

Co-ordinator: selected supervisors.

GHMB999 Major Thesis
48 credit points.
PSYCHOLOGY

COURSES OFFERED

The following postgraduate courses are available:

1. PhD by Research
2. Doctor of Clinical Psychology
3. PhD in Clinical Psychology
4. Master of Clinical Psychology
5. MA (Hons) by Research
6. Master of Science (Pass)
7. Graduate Certificate in Cognitive Neuroscience

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:
Clinical, community and health psychology, including clinical psychopathology and cognitive behaviour therapy, the psychology of drug dependence, constructivist approaches, and psychotherapy research.
Conditioning in humans; Comparative learning and cognition
Lifespan development
Meta-theoretical 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

POSTGRADUATE PROGRAMS IN CLINICAL PSYCHOLOGY

leading to the Master of Clinical Psychology, Doctor of Clinical Psychology or the Doctor of Philosophy (Clinical Psychology) degrees.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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</thead>
<tbody>
<tr>
<td>GHMC908</td>
<td>Professional Issues in Clinical Psychology</td>
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<tr>
<td>GHMC909</td>
<td>Assessment for Clinical Psychologists</td>
<td>8</td>
</tr>
<tr>
<td>GHMC910</td>
<td>Child and Family Psychology</td>
<td>4</td>
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<td>GHMC911</td>
<td>Psychopathology and Classification</td>
<td>8</td>
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<tr>
<td>GHMC913</td>
<td>Cognitive Behavioural Therapy</td>
<td>12</td>
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<tr>
<td>GHMC919</td>
<td>Clinical Applications of Health Psychology</td>
<td>4</td>
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<tr>
<td>GHMC920</td>
<td>Clinical Practicum 1</td>
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<tr>
<td>GHMC912</td>
<td>Research Project</td>
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and a further 24 credit points, to be advised

(ii) Doctor of Clinical Psychology

<table>
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<tr>
<td>GHMC908</td>
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<tr>
<td>GHMC909</td>
<td>Assessment for Clinical Psychologists</td>
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<td>GHMC910</td>
<td>Child and Family Psychology</td>
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<td>Psychopathology and Classification</td>
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<td>Cognitive Behavioural Therapy</td>
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<td>GHMC919</td>
<td>Clinical Applications of Health Psychology</td>
<td>4</td>
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<td>Clinical Practicum 1</td>
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</tr>
<tr>
<td>GHMC914</td>
<td>Thesis (Clinical Psychology)</td>
<td>48</td>
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and a further 24 credit points, to be advised

(iii) Doctor of Philosophy (Clinical Psychology)

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<th>Number</th>
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<td>Professional Issues in Clinical Psychology</td>
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<td>Assessment for Clinical Psychologists</td>
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<td>GHMC910</td>
<td>Child and Family Psychology</td>
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<td>Cognitive Behavioural Therapy</td>
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<td>GHMC919</td>
<td>Clinical Applications of Health Psychology</td>
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<td>GHMC920</td>
<td>Clinical Practicum 1</td>
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<tr>
<td>GHMC918</td>
<td>Thesis (Clinical Psychology)</td>
<td>48</td>
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and a further 16 credit points, to be advised

1 The thesis carries a weighting of 48 credit points per year over 1.5 years
2 The thesis carries a weighting of 48 credit points per year over 2.5 years

For further details, see Course Requirements below.
OTHER POSTGRADUATE SUBJECTS

<table>
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<th>Subject</th>
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<tbody>
<tr>
<td>(i)</td>
<td>Master of Science (Pass) in Psychology</td>
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<tr>
<td>GHMC950</td>
<td>Theory Seminar*</td>
<td>8</td>
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<tr>
<td>GHMC951</td>
<td>Health Psychology</td>
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<td>GHMC953</td>
<td>Psychology of Information Processing</td>
<td>8</td>
</tr>
<tr>
<td>GHMC958</td>
<td>Topics in Data Analysis*</td>
<td>8</td>
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<tr>
<td>GHMC959</td>
<td>Research Project</td>
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<tr>
<td>GHMC960</td>
<td>Psychology of Reading and Reading Disabilities</td>
<td>8</td>
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<tr>
<td>GHMC961</td>
<td>Assessment in Applied Psychology</td>
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<td>Counselling Psychology</td>
<td>8</td>
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<td>GHMC963</td>
<td>Child and Adolescent Psychology</td>
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<tr>
<td>GHMC964</td>
<td>Cognitive and Affective Neuroscience</td>
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<td>GHMC965</td>
<td>Advanced Sport and Exercise Psychology</td>
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<tr>
<td>GHMC974</td>
<td>Principles of Personal Construct Psychology</td>
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<td>(ii)</td>
<td>Honours Master of Arts and Doctor of Philosophy</td>
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<tr>
<td>GHMC998</td>
<td>Honours Masters by Research</td>
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<tr>
<td>GHMC999</td>
<td>Doctor of Philosophy Thesis</td>
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<td>(iii)</td>
<td>Graduate Certificate in Cognitive Neuroscience</td>
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<tr>
<td>GHMC964</td>
<td>Cognitive and Affective Neuroscience</td>
<td>8</td>
</tr>
<tr>
<td>GHMC966</td>
<td>Psychophysiology: Insights into Brain and Behaviour</td>
<td>8</td>
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<tr>
<td>GHMC967</td>
<td>Models of the Human Brain and their Applications</td>
<td>8</td>
</tr>
</tbody>
</table>

*A. 48 credit points in course work subjects: GHMC908 Professional Issues in Clinical Psychology

*COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

To qualify for entry to the Doctor of Philosophy candidates must have a good Honours degree of at least 2(ii) 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.

2. DOCTOR OF PHILOSOPHY (CLINICAL PSYCHOLOGY)

To qualify for entry 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 study. Full-time students are required to present for examination not later than 10 academic sessions from the date of registration. The program for PhD (Clinical Psychology) candidates will require successful completion of:

(i) a supervised research programme on a topic which is in the field of Clinical Psychology. The research programme, to be written up as a thesis, constitutes two-thirds of the program.
(ii) at least 64 credit points from the Schedule of Graduate subjects in Psychology as follows:

* This program applies to students enrolling for the first time in 1997. Re-enrolling students should consult the appropriate departmental advisor before re-enrolling.

GHMC909 Assessment for Clinical Psychologists
GHMC910 Child and Family Psychology
GHMC911 Psychopathology and Classification
GHMC913 Cognitive Behavioural Therapy
GHMC919 Clinical Applications of Health Psychology

and a further 16 credit points, to be advised.

B. at least 16 credit points in supervised practical clinical experience:
- GHMC920 Clinical Practicum 1
- GHMC921 Clinical Practicum 2

Coursework will be graded in the same manner as coursework completed by candidates for the degree of Master of Clinical Psychology.

Award of the degree of Doctor of Clinical Psychology is governed by the University Rules for the award of Doctoral degrees as described elsewhere.

3. DOCTOR OF CLINICAL PSYCHOLOGY

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 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 Clinical Psychology candidates will require successful completion of:

(i) a supervised research program on a topic which is in the field of Clinical Psychology. The research program will be written up as a thesis and constitutes half of the program.
(ii) at least 72 credit points from the Schedule of Graduate subjects in Psychology as follows:

*A. GHMC908 Professional Issues in Clinical Psychology
GHMC909 Assessment for Clinical Psychologists
GHMC910 Child and Family Psychology
GHMC911 Psychopathology and Classification
GHMC913 Cognitive Behavioural Therapy
GHMC919 Clinical Applications of Health Psychology

and a further 8 credit points, to be advised.

B. at least 16 credit points in supervised practical clinical experience:
- GHMC920 Clinical Practicum 1
- GHMC921 Clinical Practicum 2

4. MASTER OF CLINICAL PSYCHOLOGY

The degree of Master of Clinical Psychology will be subject to the Honours Masters Degree Rules together with the following conditions. Entry to the Master of Clinical 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:

*A. 56 credit points in course work subjects:
GHMC908 Professional Issues in Clinical Psychology
GHMC909 Assessment for Clinical Psychologists
GHMC910 Child and Family Psychology
GHMC911 Psychopathology and Classification
GHMC913 Cognitive Behavioural Therapy
GHMC919 Clinical Applications of Health Psychology

and a further 16 credit points, to be advised.

B. at least 16 credit points in supervised practical clinical experience:
- GHMC920 Clinical Practicum 1
- GHMC921 Clinical Practicum 2

This program applies to students enrolling for the first time in 1997. Re-enrolling students should consult the appropriate departmental advisor before re-enrolling.
7. 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).

SUBJECT DESCRIPTIONS

Where textbooks and/or subject coordinators are not specified, details will be made available at a later date.

CLINICAL PSYCHOLOGY

GHMC903 Research Skills for Clinical Psychologists

Double session (A); 8 credit points (52 hrs).
Assessment: seminar presentations, assignments and examination.

The aim of this subject is to provide students with sufficient theory and knowledge about brain functioning for them to be able to carry out neuropsychological assessments and to plan and implement interventions to assist brain-damaged people. The subject will deal with:

1. basic brain anatomy;
2. theories of brain functioning;
3. the causes of brain dysfunction;
4. principles of neuropsychological assessment;
5. the use of neuropsychological tests;
6. neuropsychological report writing;
7. treatment and rehabilitation of the brain damaged.

Textbooks:

Co-ordinator: Dr A. Fox.

GHMC906 Clinical Neuropsychology
Double session (A); 8 credit points (52 hours)
Assessment: Seminar presentations, assignments and examination.

The aim of this subject is to provide students with sufficient theory and knowledge about brain functioning for them to be able to carry out neuropsychological assessments and to plan and implement interventions to assist brain-damaged people. The subject will deal with:

1. basic brain anatomy;
2. theories of brain functioning;
3. the causes of brain dysfunction;
4. principles of neuropsychological assessment;
5. the use of neuropsychological tests;
6. neuropsychological report writing;
7. treatment and rehabilitation of the brain damaged.

Textbooks:

Co-ordinator: Dr A. Fox.

GHMC907 Psychotherapy with Individuals and Groups

Double session (A); 8 credit points (52 hrs).
Assessment: seminar papers, case work.

The aim of this subject is to provide students with an integrated theoretical and practical grounding in psychotherapy. It offers intensive training in one of a restricted number of psychotherapies with individuals or groups. The kinds of specialisations available will vary from year to year, depending on staff availability.

They are likely to be from the psychoanalytic, cognitive-behavioural, constructivist and family approaches.

The work consists of clinical reading and seminars in the selected approach, and supervision of work (therapeutic programmes, therapy cases etc) which participants will be required to undertake. The skills of peer supervision will also be developed. Where it is appropriate to the selected approach, there may also be workshop demonstrations of techniques or more experiential exercises.

Co-ordinator: Associate Professor L Viney.

GHMC908 Professional Issues in Clinical Psychology

Autumn session; 4 credit points (1.5 hrs of lectures/discussions/group work per wk).
Assessment: Report on personal learning or group process 50%, case report on ethical or legal issues 50%.

The subject focuses on issues relevant to clinical psychologists ranging from personal awareness and exploration of personal preferences through interactions with small groups, to ethical, interpersonal, 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.

Co-ordinator: Associate Professor L Viney.
and a critical evaluation of the different disorders. In addition clinical assessment and intervention will address assessment issues in both children and adult populations and will include commonly used clinical inventories and rating scales, clinical applications of the assessment of personality, psychopathology, and cognitive functions such as intelligence and memory. Assessment issues in anxiety, eating, mood, substance abuse, and serious mental disorders will be covered, as will ethical issues in psychological assessment. Besides lectures and seminars, methods of training will include supervision of test administration and assessment interviewing.

Co-ordinator: Dr C Gonsalvez.

GHMC910 Child and Family Psychology
Spring session: 4 credit points (1.5 hrs of lectures/discussion per wk).
Pre-requisite: None.
Co-requisite: GHMC909 and GHMC908 Assessment: Essay on models 25%, case reports 25%.
The subject introduces child and family health in a family and cultural context beginning with issues in early intervention and prevention and models of assessment and intervention (psychoanalytic, cognitive-behavioral, constrastivist, family systems, sociocultural and medical). After introducing needs and milestones of infant and child development as well as environmental norms and deviations, topics will include work with children, parents and families concerned with minor disturbances around developmental milestones, emotional and behavioural disorders, learning difficulties, problems associated with loss and deviations in parenting (i.e. separation, bereavement, divorce, adoption and fostering, deprivation and abuse), character disorders, and risk and disturbance at adolescence.

Co-ordinator: Dr R Henry.

GHMC911 Psychopathology and Classification
Double session (A); 8 credit points (1.5 hrs of lectures/discussion per wk).
Pre-requisite: None.
Co-requisites: GHMC909, GHMC913 Assessment: Seminar presentations 50%, examination 50%.
This course aims to provide the student with an overview of descriptive psychopathology. Issues surrounding models of abnormal behaviour and the classification of mental disorders will be critically examined. The student will be taught how to identify and diagnose mental disorders encountered by clinical psychologists. Attention will be paid to current aetiological theories of these disorders. In addition clinical assessment and a critical evaluation of the different methods of therapeutic intervention are important elements of this course. The course format will include lectures, seminar presentations, and case discussions with diagnostic formulation exercises.

Textbook:

Co-ordinator: Dr J de Wet.

GHMC912 Research Project
Double session (A); 4 credit points.
All applied psychologists should know how to answer psychological questions by recourse to raw data. All students are required to design and carry out a small research project under supervision. This research will be in any area of Psychology relevant to Clinical Psychology subject to the availability of supervision. To fulfil the requirements of this course the student will:
1. review the relevant literature and formulate a valid and testable hypothesis;
2. give a formal presentation of the theoretical background and the intended study to a critical audience before data collection begins;
3. collect, analyse and interpret those data;
4. report their findings in the form of an article suitable for a refereed journal of their choice.

Co-ordinator: Associate Professor L Viney.

GHMC913 Cognitive Behavioural Therapy
Double session (A); 12 credit points (3 hrs lectures/seminars/case presentations per wk).
Pre-requisite: PSYC347 or its equivalent.
Co-requisites: GHMC908, GHMC909, GHMC911 Assessment: Case reports 40%, observation of in-vivo/tape-recorded therapy conducted by student 30%, oral and/or written examination 30%.
The subject aims to provide students with a comprehensive understanding and training in the principles and practical applications of cognitive behaviour therapy in clinical settings amongst both adult and child populations. More specifically, the content will include a discussion of the following: Cognitive and behavioural theories of psychopathology, principles of therapeutic change, the theoretical rationale for the selection of cognitive behavioural strategies, procedures in the use of different therapeutic strategies, outcome research for cognitive behavioural interventions, and ethical issues associated with cognitive-behavioural assessment and therapy. The above issues will be examined in a wide range of psychiatric and other health-related problems including anxiety, mood, eating, substance abuse and chronic psychotic disorders. Apart from lectures, training methods will include demonstration of therapy (in-vivo/or recorded sessions), a clinical case-presentation and supervision of ongoing therapy in individual and small group settings.

Textbook:

Co-ordinator: Dr C Gonsalvez.

GHMC914 Major Thesis (Clinical)
This thesis for the Doctor of Clinical Psychology requires one and a half years full-time or the equivalent part-time.

GHMC915 Cognitive Behavioural Therapy
Double session (A); 6 credit points (52 hours).
Assessment: Multiple choice short answer exam, video or audio taped evaluation of applied assessment skills and treatment skills; file audit, oral presentation and discussion of casework.
This subject aims to provide students with a comprehensive understanding and training in the principles and practical applications of cognitive behavioural therapy in clinical settings. The overall objective is the development of competence in practice of cognitive behaviour therapy. The content of this subject is designed to provide students with knowledge and skills regarding cognitive behavioural theory of psychopathology and the therapeutic process, cognitive-behavioural restructuring, behavioural self-management, systematic desensitisation, problem solving skills and measurement and assessment. Specific characteristics of each type of therapy intervention will be presented in relation to the patient and the composition of the subject. Students will demonstrate both an understanding of the principles underlying Cognitive Behavioural Therapy and demonstrate skills in assessment, case formulation and the development of appropriate treatment plans. Evaluation, evaluation of an appropriate cognitive-behavioural intervention.

Textbook:

Co-ordinator: Dr C Gonsalvez.

GHMC916 Practicum A
Double (A) or single sessions; 4 credit points (250 hours).
Assessment: Adult Clinical placement - 150 hours; Child placement - 100 hours in the Learning and Behavioural Support Unit (LABSU) within Northfields Clinic.
The bulk of this practicum is taken up in the Department's own clinic, where the main treatment approach is cognitive-behavioural. The LABSU placement is in a 4 months block and is tied to the Child Clinical subject, with the blocks spanning the entire year. The adult placement may be a short block or extend over a longer period and will be linked to the subject of Cognitive Behaviour Therapy.

Co-ordinator: Mr J Freestone.

GHMC917 Practicum B
Double (A) or single sessions; 8 credit points (500 hours).
Assessment: Psychiatric placement - 150 hours; Child placement - 150 hours; Specialist Psychology 255
placement: 150 hours. Any one of these three placement categories may be further extended for 50 hours to make up the full complement of 500 hours.

The purpose is for students to have a range of supervised clinical placements so as to develop skills in interviewing, testing, diagnosis, report-writing, case presentation and the application of therapeutic techniques with different populations. The placements also provide opportunities to explore professional and ethical issues while working with other professionals in a variety of contexts.

Co-ordinator: Mr J Freestone.

**GHMC918 Major Thesis (Clinical)**

This thesis for the PhD in Clinical Psychology entails two and a half years full-time or the equivalent part-time.

**GHMC919 Clinical Applications of Health Psychology**

Autumn session; 4 credit points (1.5 hrs per wk).

Pre-requisite: None

CO-REQUISITE: None

Assessment: Essay 20%, case reports 40%, funding application and intervention program 40%

This subject examines models of intervention for individual, groups and larger populations. A focus on health and well being, origins of stress, immune system functioning and coping skills are examined within a health and well being focus as well as from an illness perspective. The impact of chronic or acute mental and physical illness on the individual and the family is examined in relation of treatment outcome. Migraine, epilepsy, asthma, sleep disorders, pain management, chronic illness and other behavioural medicine topics be examined from a treatment perspective. A major area of focus will be upon the prevention and treatment of addictive disorders. These will include alcohol, tobacco and other drugs, gambling and eating disorders. Finally a thorough examination of the issue of relapse prevention with a range of clinical and medical disorders will be examined.

Co-ordinator: Dr J Grainger.

**GHMC920 Clinical Practicum 1**

Double session (A); 8 credit points (1.5 hours per wk).

Pre-requisite: None

CO-REQUISITE: None

Assessment: Field supervisors' reports and field placement evaluations.

The practicum is composed of an Adult clinical placement of 250 hours (150 of them in the Department's Northfields Clinic) and a Child placement of 250 hours (150 of them in Northfields Clinic). The bulk of this practicum is thus taken up in the Department's own clinic, applying skills learnt in other subjects in the program, particularly Child and Family Psychology, Cognitive-Behaviour Therapy, Psychopathology and Assessment for Clinical Psychologists. Training methods will include demonstration of assessment and therapy, clinical case presentations and supervision of ongoing therapy in individual and small group settings.

Co-ordinator: Mr J Freestone.

**MASTER OF SCIENCE (PASS) IN PSYCHOLOGY**

**GHMC950 Psychology Honours**

**Theory Seminar**

Autumn session; 8 credit points.

Assessment: Seminar papers, major theory paper.

The Honours Theory Seminar, which is available as a separate subject to candidates for the MSc(Pass), with special permission from the Head of Department, will examine key theoretical and metatheoretical issues in psychology, especially as they affect the specializations and chosen courses of the students. The course also aims to sharpen critical reasoning and arguing skills. Topics may include ethical issues in psychological practice, the relation of psychology to other disciplines; and conceptual problems in contemporary psychological theories.

Co-ordinator: Dr N Mackay.

**GHMC951 Health Psychology**

Autumn session; 8 credit points (3 hrs lecture/week).

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. It is predicated on preserving a balance between internal and external factors in the causation and maintenance of complex human behaviour. Since the delivery of any effective service or program presupposes that personal and social systems interact in health care, current theories about biological, psychological, social and cultural determinants of behaviour will be examined from a scientist practitioner model. A range of psychological principles will be examined within the context of formulating a treatment and evaluation proposal or prevention program designed to change health injurious behaviour or support health enhancing behaviour. Topics that will be examined in this course include drug and alcohol problems, stress, pain management and weight control.

Co-ordinator: Associate Professor M Anshel.

**GHMC953 Psychology of Information Processing**

Autumn session; 8 credit points (3 hrs lecture/seminar/laboratories per week).

Pre-requisites: PSYC345 or its equivalent.

Assessment: Seminar presentations and assignments.

This subject covers advanced theoretical topics in cognitive psychology. An emphasis is placed on theoretical models of cognition. The areas covered may include face recognition, long-term memory, ecological optics, selective attention and an introduction to neural network models. Classes will involve seminar presentations and discussions, but there will also be some laboratory classes to demonstrate and develop principles of neural networks.

Co-ordinator: Dr S Roodenrys.

**GHMC958 Topics in Data Analysis**

Double session (A); 8 credit points (26 hrs of seminars).

1 This subject will not be offered after 1997.

2 This subject requires special permission from the Head of Department

Assessment: practical exercises and major assignment.

A course of seminars dealing with the fitting of models to psychological data. Topics will include multidimensional scaling and clustering models, and methods for analysing categorical data, including log-linear models for multiway contingency tables. The emphasis of the course will be on the application of techniques in data analyses to practical problems, and issues pertaining to selection of an appropriate analysis will be discussed in depth. Towards the end of the course, a number of case studies in data analysis will be presented with the aim of promoting the integration of old and new techniques for the analysis of data. Students will be expected to have some familiarity with a statistical package and to perform some analyses using it. Students will also be encouraged to discuss problems in data analysis arising from their own research projects. A reading list will be provided.

Co-ordinator: Mr P Caputi.

**GHMC959 Research Project**

Double session (A); 8 credit points.

This subject involves the completion of a single empirical study.

Co-ordinator: Associate Professor M. Ansher.

**GHMC960 Psychology of Reading and Reading Disabilities**

Spring session; 8 credit points (3 hrs lecture/seminar per week).

Pre-requisites: PSYC345 or its equivalent.

Assessment: seminar presentations, essay and assignments.

The aim of this subject is to consider the psychology of reading and reading disabilities within a human information processing framework. Models of reading acquisition and skilled reading will be considered in terms of the available experimental evidence. A range of possible reasons for failing to learn to read will be considered. These will include visual, memory and language deficit theories. Furthermore, a range of remedial procedures will be considered. This subject will also consider the evidence regarding normal adult reading that can be gained from studying acquired dyslexias.

Co-ordinator: Dr S Roodenrys.

**GHMC961 Assessment in Applied Psychology**

Double session (A); 8 credit points (2 hrs lecture/seminar per fortnight).

Pre-requisites: PSYC345 or its equivalent, plus eligibility to MSc(Pass).

Assessment: 2 assignments 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.

Co-ordinator: Dr J de Wet.

**GHMC962 Counselling Psychology**

Autumn session (may be repeated in Spring in 1997); 8 credit points (3 hrs lectures/practicals).

Assessment: tape 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 complimentary framework from which counselling can proceed the second half of the course will examine a cognitive behavioural approach.

Textbooks:

Co-ordinator: Dr J Grainger.

GHMC963 Child and Adolescent Psychology
Spring session; 8 credit points (2 hrs lecture, 1 hr practical per wk).
Pre-requisites: PSYC235 and PSYC233 or their equivalent.
Assessment: 1 assessment 45%, 1 major essay 30%, 1 take home examination 25%.
This subject focuses on a range of childhood and adolescent concerns or problem behaviours within a broad developmental framework. The subject will provide students with a general introduction to the specific problems and needs of children and parents who present at community health or child guidance clinics. Individual and family based assessment and intervention approaches will be examined for such problems as conduct disorders, attention deficit hyperactive disorders, school based adjustment and learning problems, anxiety disorders, problems of abuse and adolescent health risk behaviours such as substance abuse and adolescent deviancy.

Co-ordinator: Dr J Grainger.

GHMC964 Cognitive and Affective Neuroscience
Double session (A); 8 credit points (2 hrs lecture/seminars per fortnight and labs 3hrs per session).
Pre-requisites: PSYC352 or its equivalent, or a three year undergraduate degree deemed appropriate by the Head of Department.
Assessment: individual project 30%, lab reports based on laboratory exercises 50%.
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. Selected examples of recent research investigating these connections in both normal and psychiatric patients will be discussed. 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).

Co-ordinator: Professor R J Barry.

GHMC965 Advanced Sport and Exercise Psychology
Spring session; 8 credit points (3 contact hrs).
Pre-requisites: PSYC399 or equivalent subjects.
Assessment: mid-term exam 30%, oral presentation 20%, lab report (3000 words) 20%, paper eg observations, counselling, research proposal 30%.
The subject will focus on the role of psychological factors in sport and exercise particularly as they relate to aspects of cognitive processes, psychosocial factors and health-related issues. Students will become familiar with and be able to interpret and apply research literature in sport and exercise psychology. They will experience the processes of research experimentation, including data collection and analysis, and complete a manuscript in reporting their experiment using APS style. Students will also lead a seminar on a segment of the scientific literature and be familiar with the application and presentation of performance enhancement strategies.

Textbooks:

Co-ordinator: Associate Professor M Anshel.

GHMC966 Psychophysiology: Insights into Brain and Behaviour
Autumn and/or Spring session; 8 credit points (external course with residential requirement: also available on campus).
Pre-requisites: a three year undergraduate degree deemed appropriate by the Head of Department.
Assessment: weekly quizzes 15%, practical report 45%, examinations 40%.
This 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 (include muscle, respiratory, cardiovascular, and electrodermal activity), as well as the traditional central indicators (EEG and event related potentials). Current research using these techniques to extend our understanding of cognitive/perceptual functioning in both normal and atypical individuals will be examined. Practical skills will be developed in two residential weekends.

Co-ordinator: Professor R J Barry.

GHMC967 Models of the Human Brain and their Applications
Autumn and/or Spring session; 8 credit points (external course: also available on campus).
Pre-requisites: a three year undergraduate degree deemed appropriate by the Head of Department.
Assessment: two assignments 40% and 60%.
This subject will have the biophysics of human brain function as the frame of reference for all content. It will explore 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 of the brain, the mind/body problem, psychoanalytic and psychotherapy models, brain imaging technologies, application of models of the brain to psychology, medicine, artificial neural networks and artificial intelligence, and human-computer interactions.

Co-ordinator: Professor R J Barry.

GHMC974 Principles of Personal Construct Psychology
Autumn session; 8 credit points (42 hrs).
Pre-requisites: the completion of the requirements for any Bachelor level degree.
Assessment: laboratory report, case study and personal diary (relating the students' own construing to their own behaviour).
This subject will provide an introduction to the underlying assumptions, principles and methodologies of Personal Construct Psychology, including constructive alternativism, the person as scientist, theorist and practitioner, the use of the repertory grid and dependency grid techniques. The resulting understanding of principles and methods will then provide a basis for examination of current applications of Personal Construct Psychology in counselling, organisational and health psychology.

Textbook:

Co-ordinator: Associate Professor BM Walker.

GHMC998 Thesis (Honours Masters by Research)

GHMC999 Thesis (Doctor of Philosophy)
COURSES OFFERED

1. RESEARCH DEGREES
   1.1 Doctor of Philosophy
   1.2 Doctor of Public Health
   1.3 Honours Master of Science

2. MASTERS DEGREES BY COURSEWORK AND RESEARCH
   2.1 Master of Public Health
   2.2 Master of Science
      a) Master of Science (Environmental Health)
      b) Master of Science (Health Policy and Management)
      c) Master of Science (Mental Health)
      d) Master of Science (Nutrition and Dietetics)
      e) Master of Science (Nutrition)
      f) Master of Science (Occupational Health and Rehabilitation)

3. GRADUATE DIPLOMAS
   3.1 Graduate Diploma in Public Health
   3.2 Graduate Diploma in Science
      a) Graduate Diploma in Science (Environmental Health)
      b) Graduate Diploma in Science (Health Policy and Management)
      c) Graduate Diploma in Science (Mental Health)
      d) Graduate Diploma in Science (Occupational Health and Rehabilitation)

4. GRADUATE CERTIFICATES
   4.1 Graduate Certificate in Health Policy and Management
   4.2 Graduate Certificate in Mental Health
   4.3 Graduate Certificate in Public Health Research Methods

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
Child and family health
Environmental Health
Geriatrics and rehabilitation
Health information systems
Health policy and management
Health promotion
Health services development and evaluation
Health and Society
Mental health
Nutrition (Obesity, Diabetes)

POSTGRADUATE PROGRAMS OFFERED

1. Research program
   i) Doctor of Philosophy
   ii) Doctor of Public Health
   iii) (Honours) Master of Science

2. Health Policy and Management
   i) Master of Science
   ii) Graduate Diploma in Science
   iii) Graduate Certificate

3. Mental Health
   i) Master of Science
   ii) Graduate Diploma in Science
   iii) Graduate Certificate in Mental Health

4. Nutrition and Dietetics
   i) Master of Science (Nutrition and Dietetics)
   ii) Master of Science (Nutrition)

5. Occupational Health and Rehabilitation
   i) Master of Science
   ii) Graduate Diploma in Science

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1 Also offered externally through the Professional and Graduate Education Consortium (PAGE) and WOL.
6. Public Health
   i) Master of Public Health
   ii) Graduate Diploma in Public Health
   iii) Graduate Certificate in Public Health Research Methods

7. Environmental Health
   i) Master of Science (Environmental Health)
   ii) Graduate Diploma in Science (Environmental Health)

**SCHEDULE OF PROGRAMS**

<table>
<thead>
<tr>
<th>1. RESEARCH DEGREES</th>
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<tr>
<td>(i) DOCTOR OF PHILOSOPHY</td>
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<tr>
<td>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, namely, Public Health, Environmental Health, Health Policy and Management, Mental Health, Nutrition, Health Information Systems, International Health, Epidemiology, Medical Anthropology. The PhD provides supervised research training of excellence in a program of not less than three years duration (full-time).</td>
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<td>Admission details and regulations governing the award are set out in the General Information: Postgraduate Admission section of the Calendar.</td>
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<tr>
<td>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 seminars are held in Autumn and Spring session to assist research students structure their program and, in particular, make rapid progress with proposal design. 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.</td>
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<tr>
<td>The Doctor of Philosophy degree is a widely recognised pathway to excellence in Public Health research.</td>
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<tr>
<td>(ii) DOCTOR OF PUBLIC HEALTH</td>
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<tr>
<td>The Doctor of Public Health (DrPH) program aims to prepare professional leaders in Public Health.</td>
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<tr>
<td>The program for Doctor of Public Health candidates includes successful completion of:</td>
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<tr>
<td>(i) at least 48 credit points from the Schedule of Graduate subjects of the Department or from approved subjects of other departments of the University. This should include GHMD907 Independent Study in Public Health and GHMD984 Health Research Methodology or equivalent if required.</td>
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<tr>
<td>(ii) a supervised research project of at least two years (full time) duration on a topic in the field of Public Health. The research project will be examined under the General Rules for Doctoral degrees.</td>
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<td>The coursework is selected to meet the requirements of the candidate. Coursework will either broaden the education in Public Health of a candidate who has a strong disciplinary background in another field (e.g. a health economist) or will provide a more specialised focus in a field of relevance to the proposed research of a candidate who has a general background (e.g. Master of Public Health).</td>
</tr>
<tr>
<td>To qualify for entry candidates must have:</td>
</tr>
<tr>
<td>a) a Master of Public Health.</td>
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<tr>
<td>b) an Honours Bachelor degree of at least Class II, Division I. In such cases the program will consist of 48 credit points of coursework from the Master of Public Health program prior to admission to the Doctoral level. A student will spend a total of four years in the program.</td>
</tr>
<tr>
<td>In all cases entry to the Doctoral level will be based upon the attainment of a credit level average in the subjects at Masters level.</td>
</tr>
<tr>
<td>Admission to the research component is consequent upon successful completion of a qualifying examination at the completion of the coursework component of the program (or at least 36 credit points of coursework), and acceptance of a research proposal. Details of the qualifying examinations for the coursework and research component are available from the department.</td>
</tr>
<tr>
<td>(iii) HONOURS MASTER OF SCIENCE</td>
</tr>
<tr>
<td>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, 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 of research leading to the submission of a thesis, and may involve directed coursework in research design, methodology and skills.</td>
</tr>
<tr>
<td>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 nominated the candidate will undertake an approved course recommended by the Departmental Head, together with such examinations and other work as may be prescribed by Council. Otherwise requirements shall be the same as requirements specified in the Honours Masters Degree Rules.</td>
</tr>
</tbody>
</table>

---

1 Also offered externally through the Professional and Graduate Education Consortium (PAGE) and Wollongong On Line (WOL)
2. 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.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Master of Science (Health Policy and Management)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part-time Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></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>GHMD950</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>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON918</td>
<td>Economics of Health Care</td>
<td>6</td>
</tr>
<tr>
<td>GHMD908</td>
<td>Health Services Planning and Evaluation</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>
</tr>
<tr>
<td><strong>Third Year</strong></td>
<td></td>
<td></td>
</tr>
<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;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GHMD997</td>
<td>Major Project*</td>
<td>24</td>
</tr>
<tr>
<td>*Students who select the Major Project option please note:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. membership of the Australian College of Health Service Executives requires completion of GHMD904 Epidemiology in place of ECON918 Economics of Health Care;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project and should be taken in place of GHMD908 Health Planning and Evaluation.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(ii) Graduate Diploma in Science (Health Policy and Management)
Part-Time Course

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</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>GHMD950</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>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
</tr>
<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>Elective</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students who seek membership of the Australian College of Health Service Executives need to complete GHMD904 Epidemiology and LAW960 Legal Studies for Health Professionals.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(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>GHMD950</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>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The electives for the Master degree may be chosen from the subjects listed below or from the Mental 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.</td>
<td></td>
<td></td>
</tr>
<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>
3. 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>(i) Master of Science (Mental Health)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule 1</td>
<td>Core Subjects</td>
<td></td>
</tr>
<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>
<tr>
<td>together with at least two subjects from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule 2</td>
<td>Electives</td>
<td></td>
</tr>
<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>GHMD950</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>
<tr>
<td>Schedule 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>together with either</td>
<td>24 credit points of further course work from the elective subjects listed above.</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>GHMD997</td>
<td>Major Project (24 credit points)</td>
</tr>
<tr>
<td>Note: GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 (GHMD997) 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 |
| GHMD950 | 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 |
4. POSTGRADUATE PROGRAM IN NUTRITION AND DIETETICS
leading to the degree of Master of Science (Nutrition and Dietetics) or the Master of Science (Nutrition).
Students who have not completed an undergraduate program with a major in nutrition will be required to undertake a number of specific nutrition subjects during the course. This will limit their opportunity to take elective subjects.

Number | Subject | Credit Points
--- | --- | ---
(i) Master of Science (Nutrition and Dietetics)
Students should note that CHEM215, Food Chemistry, is a pre-requisite for GHMD934 Dietetics 2: Secondary and Tertiary Health Care. Students who have not passed CHEM215 should take this subject in Autumn session. Students may count only one undergraduate subject (PHN301 or CHEM215) towards their Masters program.

Session 1 | All students
--- | ---
GHMD931 | Dietetics 1: Primary Health Care | 6
GHMD936 | Public Health Nutrition | 6
GHMD935 | Nutrition and Food Services | 6

Students without nutrition major do
PHN301 | Nutrients and Metabolism | 8

Students with nutrition major do
GHMD902 | Communication and Education | 6
GHMD933 | Communication in Nutrition and Dietetics | 6
GHMD934 | Dietetics 2: Secondary and Tertiary Health Care | 6
GHMD984 | Health Research Methodology | 6

Elective Subjects (select one)
GHMD904 | Epidemiology | 6
GHMD907 | Independent Study in Public Health | 6
GHMD912 | Health Promotion | 6
GHMD913 | Drug Problems | 6
GHMD938 | Behavioural Aspects of Nutrition | 6

Session 3
GHMD937 | Practical Studies in Nutrition and Dietetics | 24

Session 4
GHMD997 | Major Project | 24

Note: GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project.

(ii) Master of Science (Nutrition)
As for MSc (Nutrition and Dietetics) Session 1 and Session 2 only.

5. 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 and Rehabilitation | 6
GHMD941 | Occupational Hygiene and Industrial Toxicology | 6
GHMD983 | Statistics in Health Research | 6
Plus
GHMD997 | Major Project | 24
Or 24 credit points 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
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 24 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.
5. POSTGRADUATE PROGRAM IN OCCUPATIONAL HEALTH AND REHABILITATION (cont’d).
leading to the degree of Master of Science (Occupational Health and Rehabilitation) or the Graduate Diploma in Science (Occupational Health and Rehabilitation).

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>(i)</td>
<td>Graduate Diploma in Science (Occupational Health and Rehabilitation)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Schedule 1: Core Subjects</td>
<td></td>
</tr>
<tr>
<td>GHMA914</td>
<td>Ergonomics</td>
<td>8</td>
</tr>
<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>GHMD940</td>
<td>Principles and Practice of Occupational Health and Rehabilitation</td>
<td>6</td>
</tr>
<tr>
<td>GHMD941</td>
<td>Occupational Hygiene and Industrial Toxicology</td>
<td>6</td>
</tr>
<tr>
<td>GHMD983</td>
<td>Statistics in Health Research</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>plus 6 credit points chosen from Schedule 2 of this degree</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON918: Economics of Health Care</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>GHMD908: Health Services Planning and Evaluation</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>GHMD909: Comparative Health Systems: Policies and Politics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>GHMD984: Health Research Methodology</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>LAW960: Legal Studies for Professionals</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MGMT953: Human Resource Management</td>
<td>6</td>
</tr>
<tr>
<td>Note:</td>
<td>GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project.</td>
<td></td>
</tr>
</tbody>
</table>

6. 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.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i)</td>
<td>Master of Public Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Schedule 1: MPH Core Subjects</td>
<td></td>
</tr>
<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>
<tr>
<td>GHMD984</td>
<td>Health Research Methodology</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>plus 12 credit points chosen from elective subjects, and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GHMD997 Major Project</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>or 24 credit points of subjects chosen from the elective schedule</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>ECON918</td>
<td>Economics of Health Care</td>
<td>6</td>
</tr>
<tr>
<td>GISG934</td>
<td>Nutrition and Hunger: Analysis and Policy</td>
<td>12</td>
</tr>
<tr>
<td>GHMC951</td>
<td>Health Psychology</td>
<td>8</td>
</tr>
<tr>
<td>GHMD902</td>
<td>Communication and Education</td>
<td>6</td>
</tr>
<tr>
<td>GHMD907</td>
<td>Independent Study in Public Health</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>GHMD925</td>
<td>Aboriginal Health Issues*</td>
<td>6</td>
</tr>
<tr>
<td>GHMD926</td>
<td>Qualitative Research: Methods and Issues*</td>
<td>6</td>
</tr>
<tr>
<td>GHMD936</td>
<td>Public Health Nutrition</td>
<td>6</td>
</tr>
<tr>
<td>GHMD980</td>
<td>International Health: Health Care Delivery in Developing Countries</td>
<td>6</td>
</tr>
<tr>
<td>GHMD981</td>
<td>Maternal and Child Health in Developing Countries</td>
<td>6</td>
</tr>
<tr>
<td>GHMD982</td>
<td>Special Topic in International Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD986</td>
<td>Environmental Health</td>
<td>6</td>
</tr>
<tr>
<td>GHMD987</td>
<td>Risk Assessment</td>
<td>6</td>
</tr>
<tr>
<td>GHMD988</td>
<td>Health Program Evaluation and Outcomes Research</td>
<td>6</td>
</tr>
<tr>
<td>SOC918</td>
<td>Advanced Sociology of Development</td>
<td>8</td>
</tr>
<tr>
<td>SOC940</td>
<td>Advanced Social Policy Studies</td>
<td>8</td>
</tr>
<tr>
<td>SOC942</td>
<td>Advanced Race and Ethnic Studies</td>
<td>8</td>
</tr>
<tr>
<td>SOC959</td>
<td>Advanced Studies of Gender in Society</td>
<td>8</td>
</tr>
<tr>
<td>SOC961</td>
<td>Women, Migration and Development</td>
<td>8</td>
</tr>
<tr>
<td>STS910</td>
<td>Gender and Body Politics</td>
<td>8</td>
</tr>
<tr>
<td>STS936</td>
<td>Critical Studies in Medicine and Health Care</td>
<td>12</td>
</tr>
<tr>
<td>STS947</td>
<td>Case Studies in Science and Technology Policy</td>
<td>6</td>
</tr>
<tr>
<td>Note:</td>
<td>GHMD984 Health Research Methodology is a pre-requisite for GHMD997 Major Project.</td>
<td></td>
</tr>
</tbody>
</table>

(ii) Graduate Diploma in Public Health

| GHMD904  | Epidemiology                                                            | 6             |
| GHMD905  | Social Foundations of Public Health                                      | 6             |
| GHMD906  | Quality Management for Health Services                                   | 6             |
| GHMD912  | Health Promotion                                                         | 6             |
| GHMD983  | Statistics in Health Research                                            | 6             |
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.

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.

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 homeland requirements.

(iii) Graduate Certificate in Public Health Research Methods

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 course work, 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 1997.

7. 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)

Core 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>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>Environmental 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>STSG31</td>
<td>Risk Assessment, Health and Safety</td>
<td>6</td>
</tr>
<tr>
<td>and GHMD997</td>
<td>Major Project</td>
<td>24</td>
</tr>
</tbody>
</table>

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 credit points from the following electives:

<table>
<thead>
<tr>
<th>Electives</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD902</td>
<td>Communication and Education</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>The Principles and Practice of Occupational Health and Rehabilitation</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>STSG29</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

<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>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>STSG31</td>
<td>Risk Assessment, Health and Safety</td>
<td>6</td>
</tr>
</tbody>
</table>

plus 18 credit points chosen from the following electives:

<table>
<thead>
<tr>
<th>Electives</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMD902</td>
<td>Communication and Education</td>
<td>6</td>
</tr>
<tr>
<td>GHMD905</td>
<td>Social Foundations of Public Health</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>The Principles and Practice of Occupational Health and Rehabilitation</td>
<td>6</td>
</tr>
<tr>
<td>GHMD941</td>
<td>Occupational Hygiene and Industrial Toxicology</td>
<td>6</td>
</tr>
<tr>
<td>GHMD985</td>
<td>Environmental Epidemiology</td>
<td>6</td>
</tr>
</tbody>
</table>

# Refer to Department of Public Health and Nutrition.
POSTGRADUATE PROGRAM IN ENVIRONMENTAL HEALTH (cont’d)

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.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV921</td>
<td>Environmental Planning</td>
<td>8</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 Planning#</td>
<td>6</td>
</tr>
</tbody>
</table>

# Refer to Department of Public Health and Nutrition.

**COURSE REQUIREMENTS**

1. **RESEARCH DEGREES**

1.1 **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, namely, Public Health, Primary Health Care, Environmental Health, Health Policy and Management, Mental Health, Nutrition, Health Information Systems, International Health, Epidemiology, Medical Anthropology. The PhD is designed to provide supervised research training of excellence 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 and Postgraduate Admission section of the Calendar.

Applicants should discuss their research plan with the Head of Department at which time the supervision arrangements of the Department will be outlined. Research seminars are held in Autumn and Spring sessions to assess progress in the research component and to evaluate the proposal. Opportunities exist for outstanding candidates to gain scholarship support by application to the University. For information regarding scholarships refer to the General Information section of this calendar.

The Doctor of Philosophy degree is a widely recognised pathway to excellence in research in Public Health and Nutrition.

1.2 **DOCTOR OF PUBLIC HEALTH**

The Doctor of Public Health aims to prepare professional leaders in Public Health. The program requires the completion of two years of full-time research leading to the presentation of a thesis together with 48 credit points of coursework. The coursework is selected to meet the individual requirements of the candidate. Coursework will either broaden the education in Public Health of a candidate who has a strong disciplinary background (eg a health economist or epidemiologist) or will provide a more specialised focus to a candidate who has a general background, eg Master of Public Health. Admission to the thesis component is consequent upon acceptance of a formal proposal, presented after at least 36 credit points of coursework have been completed.

During the research component seminars are held in Autumn and Spring sessions to assess progress and evaluate the proposal.

**Entry Requirements**

To qualify for entry candidates must have a Master of Public Health degree or equivalent. Admission to the research component requires completion of a qualifying examination at the completion of the coursework component of the program (or at least 36 credit points of coursework), and acceptance of a research proposal. Details of the qualifying examinations for the coursework and research component are available from the Department.

A student with an Honours Bachelor degree of at least Class II, Division I standard can be admitted to the program. In such cases his/her program will consist of 48 credit points of work from the Master of Public Health level prior to admission to the Doctoral level (a student will spend a total of four years in the program). In all cases entry to the Doctoral level will be based upon attainment of a credit average in subjects undertaken at the Masters level.

**Course Structure**

The minimum period for the completion of the degree of Doctor of Public Health will be 6 academic sessions of full-time study. Full-time students are required to present for examination not later than 8 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 University of California (Berkeley) advancing research and/or coursework interests which are part of their approved program of study.

1.3 **HONOURS MASTER OF SCIENCE**

The Honours Master of Science degree is available in each of the Public Health domains of the Department for which supervision is available, namely, Public Health, Environmental Health, Primary Health Care, Health Policy and Management, Mental Health, Nutrition, Health Information Systems, International Health, Epidemiology, Medical Anthropology.

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, 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 of research leading to the submission of a thesis, and may involve directed coursework in research design, methodology and skills.

**Course Requirements**

Potential candidates will discuss their area of interest with the coordinator of the program and present a research project title and general outline. A supervisor will be nominated and the candidate will undertake an approved course recommended by the Departmental Head, together with such examinations and other work as may be prescribed by Council. Otherwise requirements shall be the same as requirements specified in the Honours Masters Degree Rules. Research seminars all held in Autumn and Spring session to assess progress in the research component and to evaluate the proposal.

2. **MASTERS DEGREES BY COURSEWORK AND RESEARCH**

2.1 **MASTER OF PUBLIC HEALTH**

The Public Health Courses are available for on-campus attendance or nationally, by distance education (UW580), through the Professional and Graduate Education Consortium (PAGE) or 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 comprising 48 credit points of coursework together with 24 credit points of major research project or additional elective subjects. A candidate for the Master of Public Health in International Health shall undertake subjects in consultation with the co-ordinator of this program designed especially for students wishing to practise in developing countries.

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 subjects. Intending students are advised to obtain further course information from 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 the Professional and Graduate Education Consortium (PAGE), 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 must be also aligned 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 (UWS74), 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 concepts and knowledge relevant to the work of senior health service managers. Candidates who choose the all course work option select Epidemiology and three electives from a range of relevant topics including: a GHMD907 subject designed to integrate the knowledge gained throughout the course.

Course Structure
On a part-time basis the course can be completed in three years. There are approximately six 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 eight core subjects (48 credit points). The remaining 24 credit points can be gained in one of two ways:

a) by undertaking GHMD900 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. 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.

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).

GHMD984 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;

(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 (Nutrition and Dietetics)

Graduates holding the Master of Science (Nutrition and Dietetics) are eligible for membership of the Dietitians Association of Australia and thus may be employed as nutritionists/dietitians in Australia and some overseas countries.

Professional Recognition
The degree has been accredited by the Australian College of Health Service Executives and the Royal Australian College of Medical Administrators.
The Master of Science (Nutrition and Dietetics) program of coursework and placements will develop the knowledge and skills required by nutritionists/dietitians working in a variety of community settings and in public health, as well as in hospital and other tertiary health care facilities. It will also provide students with the opportunity to undertake a supervised research project on a subject related to nutrition and dietetics.

Course Design
The course is designed to equip graduates with knowledge and skills to address the major nutritional problems in Australia. The curriculum is based on the national competency standards for professional dietitian-nutritionists and has a focus on community nutrition and the principles of primary health care.

The course commences with an overview of the role nutrition plays in health both in the Australian community and internationally. Following this, students are included to develop the knowledge and skills required by a nutritionist/dietitian working in particular environments, for example, hospitals, community locations, or private practice.

The theme is that, in any of these capacities, the nutritionist/dietitian is working towards the goal of addressing major causes of ill-health through supportive nutritional practices, through professional practice at the primary, secondary or tertiary level.

Course Requirements
A candidate for the Master of Science (Nutrition and Dietetics) will undertake a program of study, student placements and a research project. The program is designed to cover those areas essential for the professional practice of dietitians in Australia, with an emphasis on community aspects of dietetics and nutrition. Students who have been taken in common with other postgraduate programs and there is limited flexibility of subject choice to allow students to pursue individual interests.

The placement involves supervised training for the candidate in nutrition and dietetics in hospitals, community health organisations and other units involved in aspects of nutrition care or health promotion.

The major project provides an opportunity for students to learn research skills under supervision in a particular area of dietetics and/or nutrition.

Duration
The Master of Science (Nutrition and Dietetics) is a two year, full-time course of 96 credit points. Opportunity exists to undertake part-time study, with the approval of the Departmental Head.

Entry Requirements
Entry will be based on selection by a panel. The panel will include at least the Departmental Head and course coordinator, together with members of the program's External Advisory Committee. Applicants should obtain a supplementary application form from the course coordinator.

Students should have completed a Bachelor of Science or equivalent degree. The University of Wollongong Bachelor of Science majoring in nutrition is an appropriate qualification for entry. This includes studies in food chemistry, nutrition through the human lifecycle, social/behavioural aspects of nutrition and metabolic nutrition. These studies are in addition to full year studies in both metabolic biochemistry and human systems physiology at second year BSc level which is a requirement of the profession. Completed studies in statistics and the ability to use computers are desirable attributes.

An average assessment of not less than credit level (65 per cent) in the major study of the previous four sessions (2 years) of equivalent full-time study should normally be achieved for selection. These criteria may be varied in the case of students who have been in the workforce since graduation; in such cases other criteria relating to postgraduate activity may be applied.

Graduates holding a BSc or equivalent degree from other recognised tertiary institutions may be admitted as candidates for the Master of Science (Nutrition and Dietetics) provided their undergraduate performance is deemed equivalent to those entering with the University of Wollongong Bachelor of Science (Nutrition). Bridging courses are available where students do not have the required subjects in their undergraduate degree and potential candidates should seek advice on this matter from the course coordinator.

The Master of Science (Nutrition) Comprises the first year of the MSc (Nutrition and Dietetics) and is intended for students who do not seek the Australian professional dietetic qualification. Places in this course are very limited.

Student intake is at the discretion of the Head of Department

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 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

3.1 GRADUATE DIPLOMA IN PUBLIC HEALTH

The Graduate Diploma in Public Health course is available for on campus attendance or nationally, by distance education (UW658), through the Professional and Graduate Education Consortium (PAGE) or Wollongong On Line (WOL).

The Graduate Diploma in Public Health course is designed for health professionals working in Public Health. It caters for health professionals who do not wish to undertake a research component in their studies. Those who do wish to undertake such a component may apply for enrolment in the Master of Public Health degree.

3.2 GRADUATE DIPLOMA IN SCIENCE

Graduate Diploma in Science (Environmental Health)

The Graduate Diploma in Science (Environmental Health) is designed to cater for environmental health professionals in government and industry settings who want to upgrade their knowledge, or to 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. 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.
Articulation with the Master of Science (Environmental Health)
Candidates who satisfactorily complete the Graduate Diploma in Science (Environmental Health) 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.

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.

b) Graduate Diploma in Science (Health Policy and Management)
Also available nationally by distance education, (UW650) through the Professional and Graduate Education Consortium (PAGE) or Wollongong Online (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 professional circumstances in pursuit of 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. There are approximately six hours of contact per week for the part-time candidate. 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 (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 two-week session program of field experience is required in addition to the course work.

c) Graduate Diploma in Science (Mental Health)
Also available externally (UW650) through the Professional and Graduate Education Consortium (PAGE) or Wollongong Online (WOL).
The Graduate Diploma in Science (Mental Health) is designed to provide education and training for the multidisciplinary group of practitioners who provide services for clients in comprehensive and monument based mental health services. It aims to produce graduates with the clinical and professional competence to work across the full range of mental health services and to provide assessment, diagnosis, treatment, rehabilitation and support for people with serious mental illness and their families in line with the National Mental Health Policy and Plan.

Course Structure
The course can be undertaken full-time over one year or part-time over two years. As with the Master of Science (Mental Health) 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, from 1:30pm.

Course Requirements
A candidate for the Graduate Diploma in Science (Mental Health) will successfully complete subjects with a total value of 48 credit points, 36 of which will be core subjects in Schedule 1 of the Mental Health Program, and 12 of which will be chosen from elective subjects as set out in the Schedule or relevant subjects chosen from other programs subject to approval of the Assessment Committee. Not all subjects in Schedule 2 will be offered each year. Elective subjects will be offered subject to demand and according to availability of teachers.

Entry Requirements
Admission to the course is normally by applicants who hold a relevant degree or other acceptable qualifications (eg. 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.

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 prerequisite 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

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 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.

Course Design
The course provides students with the opportunity to gain a qualification in health service management in a flexible manner, including 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.

4.2 Graduate Certificate in Mental Health

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 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.

Articulation with the Graduate Diploma in Science (Mental Health)

Students with appropriate entry qualifications, 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 (Mental Health). 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
Admission to the course is normally by applicants who hold a relevant degree or other acceptable qualifications (e.g.: Registered Nurse with a relevant 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 the six subjects listed previously for this award.

4.3 Graduate Certificate in Public Health Research Methods

Also available externally (UW693) through the Professional and Graduate Education Consortium (PAGE).

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 wide 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.

4.4 Graduate Certificate in Public Health

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, 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. Candidates who undertake the Graduate Diploma in Public Health following the completion of the Graduate Certificate must surrender the testamur prior to the conferring of the Graduate Diploma.

EXTERNAL COURSES
Currently, four programs of study are available externally: Health Policy and Management, Mental Health, Public Health, and the Graduate Certificate in Public Health Research Methods. They are available through the Professional and Graduate Education (PAGE) Consortium of the University of Wollongong or Wollongong On Line (WOL).

SUBJECT DESCRIPTIONS
Where textbooks and/or subject co-ordinators are not specified, details will be made available at a later date.

GHMD902 Communication and Education

Autumn session; 6 credit points (2 hrs seminar/week).

Assessment: Major assignment incorporating small group studies and seminar presentations 50%. Mid session class exam 50%. Participation 20%.

Students will be able to identify the relevance of communication and education in the health care context. They will critically review adult learning theory, discuss the development of educational programs and relate notions of competency to supervision and assessment of student health professionals. Students will discuss the relationship between communication and culture and appreciate the social construction of talk in the institutional setting. They will analyse and discuss communication processes in the small group learning context.
Textbooks:

Readings on the range of topics are provided in the closed reserve section of the library.

Co-ordinator: Dr L Tapsell.

**GHMD904 Epidemiology**

*Spring session: 6 credit points (2 hrs).*

**Pre-Requisite:** GHMD983 or approval from the Co-ordinator.

**Assessment:** two minor assignments on study design and critical appraisal; end of session written examination.

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.

*Textbook:*

or

and

Co-ordinator: Dr LJ Kreiss.

**GHMD905 Social Foundations of Public Health**

*Autumn session: 6 credit points (2 hrs).*

Assessment: two written assignments 60%, final exam 40%.

This subject 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.

*Textbook:*

Book of readings.

Co-ordinator: Dr L Harrison.

**GHMD906 Quality Management for Health Services**

*Spring session: 6 credit points (On-campus 1hr lecture, 1 hr tutorial) also available by distance education.***

Assessment: satisfactory completion of three assignments: customer identification and survey, competency assessment and analysis, organisational quality management proposal.

This subject aims to develop knowledge and skills relevant to enhancing the performance of health care services through the application of contemporary quality management theories and concepts. The subject begins by examining the powerful forces driving change in the organisation and management of health care organisations and the implications for health care managers. Traditional approaches to managing professionally dominated health care organisations are contrasted with contemporary approaches as espoused by the Australian Quality Council and the Australian Council of Health Care Standards using case studies. The content of the subject is organised into three modules: agenda for change, managing through change, and the tools of quality management.

Co-ordinator: Dr M G Harris.

**GHMD907 Independent Study in Public Health**

*Spring session, Autumn session: 6 credit points.*

**Assessment:** Major Report.

The candidate, in conjunction with a supervisor appointed by the Departmental Head of Public Health and Nutrition, will present a proposal for an independent study of 6 credit points which incorporates objectives, methods and criteria for assessment of the independent study. The proposal is approved by a committee of the Department of Public Health and Nutrition responsible for academic oversight of programs. 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 meet with supervisors regularly and to conduct independent library research as well as directed readings, assignments and assessments.

Co-ordinator: Dr M G Harris.

**GHMD908 Health Services Planning and Evaluation**

*Spring session: 6 credit points (2 hrs seminar per wk).*

Practical and theoretical aspects of health service planning and evaluation will be covered in this subject. Topics include: planning, its scope and theory; planning approaches and methods; corporate planning; strategic planning; strategy formulation and analysis; operational planning and facility planning. Principles of evaluation will be illustrated through design and implementation of health program evaluation. Topics include: process evaluation; impact and outcome evaluations; monitoring and outcome management.

Co-ordinator: Associate Professor K Eagar.

**GHMD909 Comparative Health Systems: Policies and Politics**

*Autumn session: 6 credit points (2 hrs seminar).*

Assessment: satisfactory completion of 2 essays and an examination.

This subject examines how ideologies and political processes influence health policy development and health service delivery. International measures of performance are used to identify and explore similarities and differences between countries. The impact of broad socio-economic forces on health status and health policy development are emphasized. The subject is designed to assist individuals to develop analytical and strategic skills which will enable them to influence health policy development.

*Textbooks:*


Co-ordinator: Dr M G Harris.

**GHMD912 Health Promotion**

*6 credit points.*

**Assessment:** essay 15%, health promotion program plan 45%, examination 40%.

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 approaches to health promotion at the local, state and /or national level. A setting approach is followed, examining health promotion in the health care systems, schools, local government and the workplace. A needs assessment on a particular health issue will be undertaken by each student.

*Textbooks:*

Co-ordinator: Ms H Yeattman.

**GHMD913 Drug Problems and Issues**

*Spring session: 6 credit points (2 hrs seminar per wk).*

**Assessment:** seminar presentation and discussion. Satisfactory completion of individual assignments related to literature review and analysis of a specific problem or issue within the field of alcohol or drug misuse. Passes in all components are necessary for satisfactory completion of the course.

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.

Co-ordinator: Mr G Lake, Drug and Alcohol Service, Illawarra Area Health Service.

**GHMD924 Health Information Systems**

*Autumn session: 6 credit points (2hrs per wk lecture/seminars).*

This subject 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. Current issues in information systems design and implementation in health services will be covered.

Co-ordinator: Dr R Jayasuriya.

**GHMD925 Aboriginal Health Issues**

*Autumn session: 6 credit points (2 hrs seminar).*

**Assessment:** written assignments 65%, seminar participation 25% and seminar participation 10%.

This subject is offered in alternate years and examines the current health status of Aboriginal people from a social and historical perspective. Issues to be explored include the interaction between culture and health, the experience of ill-health, and the political and economic context of health. It also focuses on access to and use
of health services and problems of cross-cultural communication within the health sector. Emphasis will be placed on communities in settler rather than remote Australia and comparisons will be made, where appropriate, with the health systems of similar populations, such as Native Americans.

Co-ordinator: Dr L Harrison.

GHMD926 Qualitative Research: Methods and Issues

Autumn session; 6 credit points (3 hrs per wk).

Pre-requisite: GHMD984 or equivalent.

Assessment: class participation 25%; practical interview 35%; review and analysis of interview data 40%.

Students enrolling in this subject will explore a variety of qualitative research methodologies and issues within this particular research paradigm. Philosophical and epistemological issues will be addressed. Field research, interview techniques, sampling strategies, the use of content analysis and other forms of data analysis will be discussed. Issues of reliability, validity and triangulation will also be examined.

Textbook:

Co-ordinator: Dr L Harrison.

GHMD931 Dietetics 1: Primary Health Care

Autumn session; 6 credit points (2 hrs lectures, 2 hr seminar/week; 3 hrs clinic/session).

Pre-requisite: admission to MSc (Nutrition and Dietetics).

Assessment: assignments completed during the session 30%; end of session examination 50%; participation in clinic and journal club 20%.

Students must demonstrate competence in the diet history to pass the subject.

Students will be able to list and describe the significance of common nutritional problems in the community; describe the nutritional requirements of individuals throughout the lifecycle and pathophysiology of major nutrition related diseases in the community. They will outline appropriate nutrition assessment, compare and contrast different methods of dietary assessment, develop skills in taking dietary histories, and analyse and evaluate dietary intake data. Students will outline appropriate dietary prescriptions and develop and utilise a "ready reckoner" for estimating these formulations. Students will critically review their performance in a nutrition outpatient clinic.

Textbooks:
Department of Nutrition and Dietetics, School of Community Health, Dietitian's Pocketbook, Curtin University of Technology, Perth, WA, 1994.
National Health and Medical Research Council, Recommended Dietary Intakes for Use in Australia, AGPS, Canberra, 1991.

Co-ordinator: Dr L Tapsell.

GHMD933 Communication in Nutrition and Dietetics

Spring session; 6 credit points (2 hrs lectures, 2 hrs seminar/week; 3 hrs clinic/session).

Pre-requisite: admission to MSc (Nutrition and Dietetics).

Assessment: assessment of competence in communication counselling 40%; assessment of competence in nutrition education skills 40%; assessment of critical skills in conflict resolution 20%.

Students will be able to counsel individuals and families on nutrition, food and diet issues; plan, implement and evaluate a nutrition education program for a small group and explore other aspects of communication in nutrition and dietetics practice.

Textbook:

Co-ordinator: Dr L Tapsell.

GHMD934 Dietetics 2: Secondary and Tertiary Health Care

Spring session; 6 credit points (2 hrs lectures, 2 hr seminar, 1 hr tutorial per wk).

Pre-requisite: GHMD931, GHMD933.

Assessment: 11 weekly case studies 30%. Examination (weeks 1 to 7 material ) 25%. Framework application (group) 20%. Examination (weeks 8 to 13 material ) 25%. It is necessary to pass all assignments and the examinations in order to pass this subject.

This subject is designed to build on the knowledge and skills studied in GHMD931 through the study of nutritional management of individuals with acute illness. Topics are introduced through the study of case management and supported by lectures provided by specialist clinicians from the medical and dietetic professions.

Topics include enteral and parenteral nutrition, the pathophysiology of disease states of the gastrointestinal, endocrine, cardiovascular and renal systems, stroke, hypermetabolic conditions, AIDS, clinical paediatrics and the rationale and protocol for the associated diet therapy.

Textbooks:
Medical Dictionary as required for GHMD931.
Recommended Text

Co-ordinator: Mr B Gazibarich.

GHMD935 Nutrition and Food Services

Autumn session; 6 credit points (wkly management/food services seminars, sessions with TAFE Food School - timetable to be advised).

Assessment: mid session examination 30%, small group report and presentation on menu planning 20%, written assignment on management 20%, participation/evidence of reading 10%.

Students will examine the theoretical and practical aspects of management and organisation in health services particularly with respect to management of hospital food services.

Aspects of the subject will focus on the development of basic cooking skills in small and large scale operations and the manipulation of standard recipes in keeping with dietetic modifications. Basic food groups will be investigated in relation to food principles, food skills and food science.

Students will also develop the skills and knowledge necessary to assist in and/or manage the provision of food via a hospital or institutional food service.

Textbook: Book of Readings.

Co-ordinator: Mr B Gazibarich.

GHMD936 Public Health Nutrition

Autumn session; 6 credit points (2 hrs seminars per wk).

Assessment: essay 15%, assignments 45%, examination 40%.

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.

Textbooks:
GHMD936 Study Guide
GHMD936 Additional Readings

Co-ordinator: Ms H Ycatman.

GHMD937 Practical Studies in Nutrition and Dietetics

Over three sessions; 24 credit points (21 wk placements 33 hrs of seminars).

Pre-requisite: GHMD931, GHMD934.

Assessment: mastery of skills and satisfactory achievement of objectives and completion of assignments (as outlined in the subject handbook) will be necessary for a pass in this subject.

Specific tasks or assignments will be allocated to each student, negotiated between the field supervisor and subject co-ordinator prior to the commencement of each placement component. Assignments will include seminar and workshop presentations. Where a student does not pass this subject, a second opportunity is not normally provided. This decision is made after consideration of both the professional and resource implications.

This subject comprises a practicum of 20 weeks which is spent in hospitals, community health centres and other food-related organisations/units under the supervision of experienced dietitians or nutritionists. The placements are designed to develop the student's skills in areas such as specialised therapeutic diets, food services management, nutrition research units, departments of community nutrition programs etc. Placements will be arranged to suit individual student needs, at the same time as meeting the minimum standards as set down by the Dietitians Association of Australia. A minimum of 5 weeks of the practicum will be spent at a major teaching hospital. Students will also be able to spend periods of time (2 wks minimum) in various other locations including country hospitals, community health units programs, food industries, non-government organisations, nutrition research units, departments of public health, private enterprise or other
government departments.

Textbooks:
As required for GHMD931, GHMD933, GHMD934, GHMD935, GHMD936
Co-ordinator: Mr B Gazibarchi.

GHMD938 Behavioural Aspects of Nutrition
Spring session; 6 credit points (2 hrs seminars, 1 hr tutorial).
Pre-requisite: normally some undergraduate study of Psychology or Sociology.
Assessment: assignment, seminar presentation and report 50%; examination 50%
This subject outlines and discusses the social, cultural and psychological determinants of health-related behaviour. Basic concepts of sociology and anthropology are illustrated by health-related examples. Models of individual behaviour and behaviour change are discussed, together with theories of social change, including community development, legislative action, and healthy public policy.

Textbooks:
Book of readings
Co-ordinator: Ms H Yeatman.

GHMD939 Human Nutrition in Health and Disease
Spring session; 8 credit points (2hrs lectures, 1 hr seminar, 3hrs practical laboratory).
Pre-requisite: BMS202 or PHN301 and at least 12 credit points at 300 level.
Assessment: in-class written examination 45%, practical work 30%, tutorial work 25%.
The subject introduces approaches to optimising the nutritional health of individuals and the Australian population. Nutritional needs through the life cycle - (foetus, childhood, pregnancy, middle and old age) and clinical conditions and their nutritional implications (eg: metabolic disease, diseases of the digestive tract, coronary heart disease, eating disorders) are discussed.

Textbooks:
Guthrie, HA, Picciano, MF, Human Nutrition, Mosby, 1995
in addition, intending to complete MS Nutrition and Dietetics
Co-ordinator: Mr B Gazibarchi.

GHMD940 The Principles and Practices of Occupational Health and Rehabilitation
Autumn session; 6 credit points (2hrs seminar).
Pre-requisite: admission to MPH (Occupational Health and Rehabilitation).
Assessment: seminar presentation 50%; examination 50%.
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.

Textbook:
Waldron, H A, Occupational Health Practice, 3rd Ed, Butterworths.

GHMD941 Occupational Hygiene and Industrial Toxicology
Spring session; 6 credit points (2 hrs seminar).
Pre-requisite: admission to MPH (Occupational Health and Rehabilitation).
Assessment: end of session written examination plus major written assignment 70%; written assignment during session 30%.
The subject introduces the fundamental aspects of toxicology, including toxic response. Mechanisms, models of cancer dose response, threshold and tolerance, basic principles of pharmaco-kinetic 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 tools to interpret the data associated with these mechanisms and apply them to practical instances where humans are at risk.

Textbook:
Book of readings, available at cost from department
Co-ordinator: Associate Professor P Ricci.

GHMD950 Financial Management for Health Services
Spring session; 6 credit points (3 hrs tutorials per wk).
Assessment: 2 written assignments

Textbooks:

GHMD962 Adolescent Mental Health*
6 credit points (2 hrs per wk).
Assessment: a variety of methods including literature review, case reports, seminar presentation, research proposals.
This subject presents a sociocultural overview of the concept of adolescence and introduces major theories of adolescent psychological development. It examines family, social, cultural, and political influences upon the developing adolescent. It provides the student with a comprehensive description of adolescent mental health disorders, individual and family assessment, intervention and treatment options. Special topics include suicide and para-suicide, substance abuse, delinquency, behavioural disorders, sexual assault, and parent-adolescent conflict.
Co-ordinator: Mr P O’Halloran.

GHMD964 Mental Health Problems of the Aged*
6 credit points (2 hrs per wk).
Assessment: a variety of methods including literature review, case reports, seminar presentations, research proposals.
This subject presents an overview of the aging process, including physical, social, cultural, and psychological factors. It provides a comprehensive examination of common psychiatric and behavioural disorders, assessment, diagnosis, psycho-pharmacology and therapeutic and management approaches. Special topics include death and bereavement, alcohol and drug abuse, legal and ethical issues.
Co-ordinator: Mr P O’Halloran.

GHMD965 Principles and Practices of Psychosocial Rehabilitation
Spring session; 6 credit points (2 hrs per wk).
Assessment: a variety of methods including literature review, case reports, seminar presentations, research proposals.
This subject provides an examination of current approaches and practices in the rehabilitation of people following long-term mental illness. Students will examine and utilise functional assessments; develop individual management plans; design, implement and evaluate living skills programs across a range of functional domains.

Textbook:

GHMD966 Family and Systems Interventions for Mental Health*
6 credit points (2 hrs per wk).
Assessment: a variety of methods including literature review, case reports, seminar presentations, research proposals.
This subject examines the current research of the effects of social and emotional milieu on mental illness. It also examines various inter-ventions and support strategies, particularly for families in dealing with the burden and distress of mental illness.

Textbooks:

GHMD970 Comprehensive Systems of Mental Health Care
Autumn session; 6 credit points (2 hrs per wk).
Assessment: a variety of methods including review, case reports, seminar presentations, research proposals.
This subject provides an overview of basic theoretical models used to explain psychiatric disorder and presents a historical overview of mental health services. It outlines the design and impact of relevant legislation, deinstitutionalisation, and the subsequent development of a comprehensive service model. It provides students with an understanding of each component of a community service network, including the role and function of crisis intervention services, residential services, community health centres, living skills and rehabilitation services, hospital

* Not on offer in 1997.
based services, and multidisciplinary mental health structures. The role, structure, function and policy of relevant government, non-government and advocacy organisations is examined with particular reference to NSW organisations.

Co-ordinator: Mr P O'Halloran.

GHMD971 Assessment and Diagnosis in Mental Health
Autumn session: 6 credit points (2hrs per wk).
Assessment: a variety of methods including literature review, case reports, seminar presentations, research proposals.
This subject examines the definition, classification, assessment, diagnosis, therapeutic approaches and management of mental health problems at major stages of human development, with particular emphasis on serious psychiatric disorders. The formulation of management plans and the therapeutic and pharmacological considerations are addressed.

Co-ordinator: Mr P O'Halloran.

GHMD973 Case Management in Mental Health
Spring session: 6 credit points (2hrs per wk).
Assessment: a variety of methods including literature review, case reports, seminar presentations, research proposals.
This subject provides an overview of inter-vention and treatment options for people presenting with acute psychiatric disorders as well as those requiring more intensive rehabilitation. Principles and strategies for crisis intervention, including pharmacological management and family and social network interventions are examined in detail. The principles and practices of case management are examined and utilised as the basis of current and subsequent service delivery.

Textbooks:
Co-ordinator: Mr P O'Halloran.

GHMD976 Supervised Clinical Practice
Offered in Autumn or Spring sessions according to demand; 6 credit points (not offered through PAGE).
Assessment: upon commencement of the placement, students must present a written report detailing goals and objectives of the placement and contract with the field supervisor. Upon conclusion of the practicum, students must submit an evaluative report indicating clinical activity, competencies developed, difficulties encountered and positive outcomes for self, client and service agency. The student must also present a daily log of clinical activities during the course of the placement. The clinical supervisor must support this report and submit a report to the student's academic adviser.
Students must complete a supervised clinical practicum. A range of placements exist in both the Local Area Health Service and in Rural and Metropolitan areas.

Students are to negotiate details in conjunction with the academic advisers and nominated clinical supervisors before they begin and must develop and submit an outline including a description of the nature of the clinical work, specific competencies to be developed, and how the development of competencies will be monitored and evaluated by the clinical supervisor.
Co-ordinator: Mr P O'Halloran.

GHMD980 International Health: Health Care Delivery in Developing Countries*
Autumn session: 6 credit points (2hrs per wk).
Assessment: students will submit two papers. The first (approximately 2000 words) will describe health and the health care delivery system in a developing country, identifying major issues for health development. The second paper (approximately 2500 words) will be a detailed analysis of one such issue and a plan for strengthening management of the program.
This subject provides an orientation to health care systems in developing countries. Issues of socio-economic development and health, decentralisation and health, and factors that influence the relationships of the environment and nutrition to morbidity and mortality, and of population dynamics to service delivery will be covered. Health Program Management issues such as resource management, logistics, information systems in this context will be illustrated.
Co-ordinator: Dr R Jayasuriya.

GHMD981 Maternal and Child Health in Developing Countries
Spring session: 6 credit points (2hrs per wk).
Assessment: two written papers. The first paper of about 1500 words will review the literature on a selected aspect of Maternal and Child Health in Developing Countries. The second of about 3500 words will be a proposal for strengthening the selected program in the context of a selected developing country.
Students taking this subject will examine the components of the "safe motherhood" intervention and "child survival" strategies in developing countries. The subject will give emphasis to the delivery of care using a primary health care approach and the use of appropriate technology. Issues of integration of maternal and child health and family planning services and the organisation of services in decentralised settings will be discussed.
Co-ordinator: Dr R Jayasuriya.

GHMD982 Special Topic in International Health*
Spring session: 6 credit points.
Pre-requisite: GHMD984 or equivalent research subject.
Co-ordinator: GHMD980.
Assessment: a research proposal with substantial review of the literature on a topic chosen for research in a developing country (about 3000 words).
This subject will enable students to further their knowledge in a special topic of interest relevant to health in developing countries. The student will also obtain skills in developing and writing a research proposal for Health Systems Research. Topics for study currently include Aspects of Maternity Services, Injury Control, Nutritional Issues, Training of Health Care Workers, Health Information Systems. The topic chosen may assist the student by providing background for the choice of topic for their major project. The subject will be taught in tutorials rather than formal lectures.
Co-ordinator: Dr R Jayasuriya.

GHMD983 Statistics in Health Research
Autumn session: 6 credit points (3hrs).
Assessment: three written assignments.
Students will be introduced to statistical concepts and techniques in developing health research studies. Topics include the use of probability samples, probability theory and statistical inference, distributions, and regression methods.
Co-ordinator: Associate Professor P Ricci.

GHMD984 Health Research Methodology
Spring session: 6 credit points (2hrs).
Pre-requisites: GHMD983 or equivalent.
Assessment: audio taped semi-structured interview and qualitative analysis 50%, research proposal and structured survey design 50%.
This subject introduces students to health research methodology. Topics include formulating a research question, conducting a literature review and writing a research proposal. Students will acquire skills in interviewing, survey design and appropriate methods of qualitative and quantitative analysis. Ethical issues such as informed consent and confidentiality will be addressed.

Textbook:
Dr I A Kreis.

GHMD985 Environmental Epidemiology
Spring session: 6 credit points (2hrs).
Co-ordinator: GHMD904.
Assessment: 3 essays and 1 short research report based on a computer practice and a seminar presentation of these results.
The course will consist of a 4 part computer practice to be conducted in teams of 2 students. The practice concerns a case of a local environmental contamination and the methods to investigate the situation and its health effects. The student will be placed in the situation of a local 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 the final presentation.

Textbooks:
Co-ordinator: Dr I A Kreis.

GHMD986 Special Topic in Environmental Health*
Spring session: 6 credit points.
Pre-requisites: GHMD985 or equivalent research subject.
Co-ordinator: GHMD980.
Assessment: a research proposal with substantial review of the literature on a topic chosen for research in a developing country (about 3000 words).
This subject will enable students to further their knowledge in a special topic of interest relevant to health in developing countries. The student will also obtain skills in developing and writing a research proposal for Health Systems Research. Topics for study currently include Aspects of Maternity Services, Injury Control, Nutritional Issues, Training of Health Care Workers, Health Information Systems. The topic chosen may assist the student by providing background for the choice of topic for their major project. The subject will be taught in tutorials rather than formal lectures.
Co-ordinator: Dr R Jayasuriya.

GHMD987 Statistics in Health Research
Autumn session: 6 credit points (3hrs).
Assessment: three written assignments.
Students will be introduced to statistical concepts and techniques in developing health research studies. Topics include the use of probability samples, probability theory and statistical inference, distributions, and regression methods.
Co-ordinator: Associate Professor P Ricci.

GHMD988 Health Research Methodology
Spring session: 6 credit points (2hrs).
Pre-requisites: GHMD983 or equivalent.
Assessment: audio taped semi-structured interview and qualitative analysis 50%, research proposal and structured survey design 50%.
This subject introduces students to health research methodology. Topics include formulating a research question, conducting a literature review and writing a research proposal. Students will acquire skills in interviewing, survey design and appropriate methods of qualitative and quantitative analysis. Ethical issues such as informed consent and confidentiality will be addressed.

Textbook:
Dr I A Kreis.
GHMD986 Environmental Health
Session: Please Check with department.
6 credit points.
Assessment: 2 reports, 1 oral presentation
The course will cover various cases studies in environmental health where the students will take an active part in presenting some of these cases. The course will consist of lectures in which some of the theories and internationally relevant cases are presented. In the seminars the students will present cases they are working on or planning to and aspects related to these cases will be discussed.
Textbook:
Co-ordinator: Dr I A Kreis.

GHMD997 Risk Assessment
Session: Please Check with department.
6 credit points.
Pre-requisite: GHMD904.
This course 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.
Co-ordinator: Associate Professor P Ricci.

GHMD988 Health Program Evaluation and Outcomes Research
Spring session; 6 credit points. 2hrs lecture/seminar per week
Pre-requisites: GHMD983 Statistics in Health Research, GHMD984 Health Research Methodology
Assessment: Two essays 20% each, Meta-evaluation 40%, Case Studies 20%
This course will cover concepts, theories, methods and use of evaluation research. It will focus on developing program evaluation designs in health settings. Types of Meta-evaluation will be discussed. 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.
Textbook:
Co-ordinator: Dr R Jayasuriya

GHMD997 Major Project
24 credit points.
Pre-requisite: GHMD984 Health Research Methodology
The major project forms the main problem-oriented component of the course. It is an individual 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.
Textbook:
Guidelines for this subject have been developed and are available from the co-ordinator
Co-ordinator: Dr I A Kreis.

GHMD998 Thesis
36 credit points.
Textbook:
Guidelines for this subject have been developed and are available from the co-ordinator
Co-ordinator: Dr I A Kreis

GHMD999 Major Thesis
48 credit points.
Textbook:
Guidelines for this subject have been developed and are available from the co-ordinator
Co-ordinator: Dr I A Kreis
FACULTY OF INFORMATICS
FACULTY OF INFORMATICS

FACULTY OFFICE
Dean: Professor Ah Chung Tsoi
Sub Dean: Dr Grahame Morris
Faculty Officer: Mr David McDonald
Administrative Assistants: Mrs Gina Portscher
Ms Christine Bray

MEMBERSHIP
The Faculty of Informatics is made up of the following Departments:
- Applied Statistics
- Computer Science
- Electrical and Computer Engineering
- Information and Communication Technology
- Mathematics

RESEARCH COURSES AVAILABLE
The Faculty offers Honours Master of Information Technology and Communication, Honours Master of Engineering, Honours Master of Science 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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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.
Associate Professors
Martin W Bunder, BSc UNSW, MA NE, PhD Amst
Desmond J Clarke, BSc WA, MSc Adel, PhD UNSW, MAGU
James M Hill, BSc PhD DSc Q’d, PhD UNSW, MSc
Philip G Laird, MSc Well and ANU, PhD Calg
Rodney V Nillsen, BSc Tas, MSc PhD Flin

Senior Lecturers
Tim Marchant, BSc PhD Adel
Grahame Morris, BSc N’cle (NSW), PhD UNSW
Peter Nickolas, BMath N’cle, PhD UNSW, DipCompSc Q’d
Frank P Prokop, BS MA Detroit, PhD Graham H Williams, BSc PhD Adel,
DipCompStud Melb
Song Ping Zhu, BS Huazhong (China), MSE PhD MS Michigan

Lecturers
Joanna Goard, BMath Xiao-Ping Lu, BE Beijing, MSE PhD Mich
Annette L Worthy, BSc UNSW, PhD

Associate Lecturers
Vladimir Belov, BSc, MSc, PhD Novosibirsk (Russia)
Maureen Edwards BMath
Carolyn E McPhail, BMath, GDipEd
Anne Nealan BSc, DipEd

Research Fellows
Danny Arrigo, BMath MMath Waterloo, PhD Georgia TECH

Administrative Assistants
Carolyn Silveri
Paula McGregor

FACULTY VISITING
COMMITTEE

Dr D Cooper, Chief, CSIRO Division of Radiophysics
Mr R F Evans, Chief Engineer, Engineering Technology, BHP Slab and Plate Products Division
Dr J Gray, Manager, Quantitative Research, AMP Investments Australia Ltd
Mr J Mann, General Manager Information Systems BHP Steel (Chair)
Dr D Nicholls, Dean, Faculty of Economics and Commerce, Australian National University
Dr P Pentony, Assistant Statistician, Australian Bureau of Statistics
Mr I Robinson, Manager, Customer Connections and Assets, Integral Energy Networks
Mr A Whitworth, Systems Consultant, Keycorp Ltd
Ms J Wright, Director of Public Libraries and Extension Services, State Library of NSW
APPLIED STATISTICS

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Science by Research or Coursework
3. Master of Statistics
4. Graduate Diploma in Statistics

POSTGRADUATE PROGRAM

Applied Statistics

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:

- Epidemiology
- Experimental design
- Goodness of fit
- Image analysis
- Multivariate analysis
- Population dynamics and plant growth
- Quasi-likelihood
- Sample survey design and methodology
- Statistical decision theory
- Statistical Inference
- Statistical quality control

SCHEDULE OF PROGRAMS

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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<th>Core</th>
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<td>STAT991</td>
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<td>STAT992</td>
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<td>or</td>
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<tr>
<td>STAT904</td>
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<td>STAT905</td>
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<td>STAT906</td>
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<tr>
<td>STAT941</td>
<td>Design &amp; Analysis for Quality Control</td>
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<td></td>
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<tr>
<td>STAT942</td>
<td>Regression and Observational Studies*</td>
<td>6</td>
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<tr>
<td>STAT944</td>
<td>Preliminary Topics in Statistics A</td>
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<td>STAT971</td>
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<tr>
<td>STAT972</td>
<td>Advanced Topics in Statistics A</td>
<td>6</td>
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<tr>
<td>STAT981</td>
<td>Advanced Topics in Statistics B</td>
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<tr>
<td>STAT982</td>
<td>Advanced Topics in Statistics C</td>
<td>6</td>
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</tr>
<tr>
<td>STAT983</td>
<td>*Not on offer in 1997.</td>
<td></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 STAT993.

2. 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 Department of 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 Department of 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 Department of 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 Department.
In exceptional circumstances, and subject to approval of the Head of the Department, subjects with the value of at most 6 credit points from the program may be replaced by any other 300 level subjects with value of at least 6 credit points.

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 Department of Applied Statistics.

Before the award of Honours Master of Science is conferred on a candidate who holds a testament of the University of Wollongong for the degree of Master of Statistics, the candidate shall undertake a course of study with the approval of the Head of the Department of Wollongong for the degree of Master of Statistics.

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 subjects to the value of at least 48 credit points approved by the Head of the Department. The subject STAT990 must be included, except that with the approval of the Head of the Department the subject STAT991 may replace STAT990.

In some circumstances, and subject to approval of the Head of the Department, 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.

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 Department of Applied Statistics.

Satisfactory completion of the Master of Statistics permits registration for HONOURS MASTER OF SCIENCE (in the Department of Applied Statistics).

4. GRADUATE DIPLOMA IN STATISTICS

In addition to the University’s Rules for Graduate Diplomas, candidates for the Graduate Diploma in Statistics shall:

(a) 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 credit points at the 300- level or 900-level. With approval of the Departmental Head STAT949 may be included instead of a 100 or 200 level subject.

(b) not include in the diploma program subjects which, in the opinion of the Departmental Head, are equivalent in contents to those for which credit has already been obtained towards some other degree or diploma.

(c) have their programs approved by the Departmental Head before enrolling.

Satisfactory completion of the Graduate Diploma in Statistics permits registration for MASTER OF STATISTICS.

SUBJECT DESCRIPTIONS

Subjects

For further details, see the Head of Department.

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 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.

STAT901 Modern Inference

Assessment: examination 75%, assignments 25%.

Repllication, jackknife, bootstrapping; Cross-validation; Non-parametric confidence intervals; Permutation tests; Monte-Carlo tests; Robust estimation.

Co-ordinator: Dr P Davy

STAT902 Advanced Data Analysis

Assessment: examination 75%, assignments 25%.

A selection of topics from: Regression model building and checking; Causal modelling; Clusen analysis; Multi-dimensional scaling; Log-linear models; Generalized linear models; Time series methods; Principal components. Factor analysis; Canonical correlations; Statistical computer packages.

Co-ordinator: Dr C Gulati

STAT903 Survey Design and Analysis

Assessment: examination 75%, assignments 25%.

Survey methods - survey development, Cluster and multi-stage sampling; Repeated and longitudinal surveys; Non-sampling errors; General methods of variance estimation; Small area estimation; Non-response adjustment; Analysis of complex survey data; Report writing.

Co-ordinator: Dr D Steel

STAT904 Statistical Consulting

Assessment: examination 75%, assignments 25%.

Project management; Client liaison; Problem identification; Consulting ethics and principles; Sources of data; Choosing design and analysis procedures; Common problems in statistical consulting; Setting sample size - power calculations; Consulting case studies; Report writing.

Co-ordinator: Dr K Russell

STAT905 Time Series

Assessment: examination 75%, assignments 25%.

Prediction theory; Linear models identification, estimation, diagnostic checking; Multivariate models.

Co-ordinator: Dr C Gulati

STAT906 Experimental Design

Assessment: examination 75%, assignments 25%.

The general linear model; Complete and incomplete block designs; The construction of optimal block designs; Factorial designs and fractional factorial designs; Response surface methodology.

Co-ordinator: Dr K Russell

STAT941 Statistical Quality Control

Assessment: examination 75%, assignments 25%.

Why control charts?; Level of variability; Differences between specification limits and control limits; Deming’s philosophy; Quality circles; Cause and effect diagrams; Pareto diagrams; Control charts; Benefits of using control charts; Shewhart charts, such as x-charts, c-charts, p-charts, R-charts, s-charts; Cumulative sum (CUSUM) control charts; Exponentially weighted moving averages; Moving average and moving range charts; Average run length of the above mentioned control charts; Comparison of charting methods; Process capability indices; Determining process capability using control charts; Some case studies.

Co-ordinator: Associate Professor J Rayner

STAT942 Design and Analysis for Quality Control

Assessment: examination 75%, assignments 25%.

Experimental design; Principles of design; Importance of randomisation; Randomised block designs; Factorial designs; Fractional factorials; Taguchi’s philosophy and how it relates to experimental design; Introduction to variance components; Fixed models as opposed to random (mixed) models; Estimation of variance components; Evolutionary processes.

* Not on offer in 1997.
Co-ordinator: Dr K Russell

STAT944 Observational Studies and Regression Techniques
Assessment: examination 75%, assignments 25%.
Linear regression; Regression diagnostics; Multicollinearity; Residual analysis; Response surface methodology; Logistic regression; Planning of observational studies; Effects of matching and covariates as controls. Concepts of confounding.
Co-ordinator: Dr C Gulati

STAT990 Minor Project
6 credit points.

STAT991 Project
12 credit points.

STAT992 Thesis
36 credit points.

STAT993 Major Thesis
48 credit points per year.

Co-ordinator: Dr K Russell

STAT949 Statistical Thinking
6 credit points.
Assessment: examination 75%, assignments 25%.
The importance of variability; Why statistics?; Statistics and quality; Exploratory data analysis; Numerical and graphical summaries; Measures of location and spread; Elementary probability; The Binomial; Poisson and Normal Distributions; The role of the Central Limit Theorem in statistics; The nature and purpose of statistical inference; Point estimation and confidence intervals; Concepts of hypothesis testing; Simulation techniques; Sampling methods; Elementary control charts.
Co-ordinator: Dr Y-X Lin

STAT971 Preliminary Topics in Statistics A
Assessment: examination 75%, assignments 25%.
A selection of topics will be available from time to time to serve as preliminary material in the Master of Statistics.
Co-ordinator: Head of Department

STAT972 Preliminary Topics in Statistics B
Assessment: examination 75%, assignments 25%.
A selection of topics will be available from time to time to serve as preliminary material in the Master of Statistics.
Co-ordinator: Head of Department

STAT981 Advanced Topics in Statistics A
Assessment: examination 75%, assignments 25%.
Current research interests of staff of the Department of Applied Statistics and visitors to the Department.
Co-ordinator: Head of Department

STAT982 Advanced Topics in Statistics B
Assessment: examination 75%, assignments 25%.
Current research interests of staff of the Department of Applied Statistics and visitors to the Department.
Co-ordinator: Head of Department

STAT983 Advanced Topics in Statistics C
Assessment: examination 75%, assignments 25%.
Current research interests of staff of the Department of Applied Statistics and visitors to the Department.
Co-ordinator: Head of Department

* Not on offer in 1997.
COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Science by Research or Coursework
3. Master of Computer Science

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.

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<thead>
<tr>
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<th>Subject</th>
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<td>CSC1943</td>
<td>Advanced Topics in Computer Science C</td>
<td>6</td>
</tr>
<tr>
<td>CSC1965</td>
<td>Design and Analysis of Algorithms</td>
<td>6</td>
</tr>
<tr>
<td>CSC1966</td>
<td>Information Theory and Coding</td>
<td>6</td>
</tr>
<tr>
<td>CSC1967</td>
<td>Complexity Theory</td>
<td>6</td>
</tr>
<tr>
<td>CSC1971</td>
<td>Computer Security</td>
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</tbody>
</table>

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.

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<td>CSC1941</td>
<td>Advanced Topics in Computer Science A</td>
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</tr>
<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>
</tr>
<tr>
<td>CSC1957</td>
<td>Advanced Topics in Database Management</td>
<td>6</td>
</tr>
<tr>
<td>CSC1963</td>
<td>Advanced Computer Graphics</td>
<td>6</td>
</tr>
<tr>
<td>CSC1973</td>
<td>Computer Assisted Learning</td>
<td>6</td>
</tr>
<tr>
<td>CSC1974</td>
<td>Systems Analysis</td>
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</tbody>
</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.

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<th>Credit Points</th>
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<td>Advanced Topics in Computer Science B</td>
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<tr>
<td>CSCI944</td>
<td>Robot Perception and Planning</td>
<td>6</td>
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<tr>
<td>CSCI954</td>
<td>Artificial Intelligence Programming</td>
<td>6</td>
</tr>
<tr>
<td>CSCI956</td>
<td>Robot Modelling</td>
<td>6</td>
</tr>
<tr>
<td>CSCI962</td>
<td>Logic Programming</td>
<td>6</td>
</tr>
<tr>
<td>CSCI964</td>
<td>Neural Computing</td>
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</tr>
<tr>
<td></td>
<td>plus subjects from the other Programs.</td>
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</tbody>
</table>

For further details, see Course Requirements below.

OTHER POSTGRADUATE SUBJECTS

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<tr>
<td>CSCI981</td>
<td>Preliminary Topics in Computer Science B</td>
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<tr>
<td>CSCI982</td>
<td>Preliminary Topics in Computer Science C</td>
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</tr>
<tr>
<td>CSCI983</td>
<td>Preliminary Topics in Computer Science D</td>
<td>6</td>
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<tr>
<td>CSCI991</td>
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<tr>
<td>CSCI992</td>
<td>Minor Thesis</td>
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</tr>
<tr>
<td>CSCI993</td>
<td>Thesis</td>
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</tr>
</tbody>
</table>

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in CSCI993.

2. 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 Department of 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 Department of 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 12 credit points, including the subject CSCI991 (12 credit points) and other 900 level subjects to the value of at most 12 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 Department of 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.

3. 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 Department of 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 Department, 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 CSCI003 Computer Science IIIB.

(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 Department. In exceptional circumstances, and subject to approval of the Head of the Department, 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 Department of 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 Department of Computer Science.

4. 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 Department of Computer Science, and can only be taken part-time, because of the pre-requisite 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 Department of Computer Science may be permitted, with the approval of the Head of Department.

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 2A;
- **CSCI203** Computer Science 2B;
- **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.

**SUBJECT DESCRIPTIONS**

Where textbooks and/or co-ordinators are not specified, details will be made available at a later date.

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**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*

Topics will be selected from those areas of computing science in which visiting staff members of the Department are engaged in active research.

**CSCI942 Advanced Topics in Computer Science B**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*

Topics will be selected from those areas of computing science in which visiting staff members of the Department are engaged in active research.

**CSCI943 Advanced Topics in Computer Science C**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*

Topics will be selected from those areas of computing science in which visiting staff members of the Department are engaged in active research.

**CSCI944 Perception and Planning**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*

Perception involves the organisation of data to achieve understanding of the environment. It facilitates planning, which involves: developing a model of the problem and inferring from that model the consequences of current or proposed actions. In robotics, we collect the data with sensors and external sensors. Internal sensors are the sensors used to measure robot parameters relative to the reference frame of the robot. Robot parameters include: joint angle, joint motion, linkage deflection, grip force and joint torque. External sensors are used to measure the environment. External sensing includes touch, range finding and vision. Once the parameters have been measured, the data must be fused into a coherent model of the environment which can be used for planning.

Co-ordinator: Dr P McKerrow

**CSCI945 Parallel Architectures and Algorithms**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*

The immense computational power required for many modern applications has led to the development of both hardware and software techniques to harness the capabilities of complex multiprocessor machines. The subject concentrates on defining the many different approaches adopted to the construction of parallel algorithms and architectures. Emphasis is placed on the suitability of each paradigm to potential and actual application areas. This is developed both in theory and practice, with practical work on a network of transputers running occam.

Co-ordinator: Mr J Fulcher

**CSCI954 Artificial Intelligence Programming**

*Spring session; 6 credit points (2 hrs per wk).*

Assessment: Three assignments worth 40%, seminar presentation 20%, final examination 40%

This subject provides students with a grounding in the theory and practice of advanced techniques in expert systems. The subject deals with the design and implementation of a range of knowledge representation and reasoning techniques including rule-based systems, frame-based systems, hybrid systems, uncertainty reasoning, fuzzy logic, case based reasoning, model based reasoning, constraint based reasoning, belief revision systems, qualitative reasoning and temporal reasoning. The subject assignments include a team project designing and implementing an advanced reasoning system in Prolog, Lisp or C++.

Textbooks:


Co-ordinator: Prof M Bala Balachandran

**CSCI955 Computer Networks**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*


Co-ordinator: Professor G J Anido

**CSCI956 Robot Modelling**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*


**CSCI957 Advanced Topics in Database Management**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*

The objective of this course is to study the implementation aspects of a Database Management System DBMS, i.e. the software that handles all access to the database. A DBMS runs on top of an operating system and complements and/or duplicates many operating system functions. The functional components discussed in the course include the file manager, the buffer manager, the query optimizer, the recovery manager, and the concurrency controller.

Co-ordinator: Dr J Getta

**CSCI962 Logic Programming**

*Autumn or Spring session; 6 credit points (2 hrs per wk).*

The guiding ideal of logic programming is that a program should be a logical theory and that the processing of a query by a logic programming system should be an attempt to prove a theorem in that theory. If the ideal were realised, logic
programs would have the clear and precise semantics available for logical theories, and the imposition of control over the execution of queries would be managed entirely by the implementation. Actual logic programming languages, the most widely known of which is Prolog, fall well short of the ideal, in that it is typically necessary for programs to contain both non-logical code and control information.

The course contains the theoretical and practical issues raised by the above description, and includes most or all of the following topics: propositional calculus; predicate calculus; model-theoretic semantics; resolution; logic programming and Prolog (theory, applications, extensions, integration with other programming paradigms and implementation).

References

CSCI963 Advanced Computer Graphics
Autumn or Spring session; 6 credit points (2 hrs per wk).

The representation of three-dimensional scenes by continuous tone images has advanced significantly over the last 20 years. One of the major advances in imaging has been the use of ray tracing to produce highly realistic pictures containing such features as shadows, reflection, refraction, texturing, perspective, and motion blur. These techniques can be implemented in an object-oriented fashion using a constructive solid geometry approach. The purpose of this course is to acquaint the student with the current status of ray tracing techniques and their subsequent implementation into a CSG ray tracer.

Co-ordinator: Mr P Castle

CSCI964 Neural Computing
Autumn or Spring session; 6 credit points (2 hrs per wk).

Students will become familiar with the structures, algorithms and capabilities of neural networks. Topics covered will include: The biological neuron cell, synapses, dendrites, axon, threshold, firing rate; Origins of neural computing: Hebbian learning, McCulloch & Pitts simple three-hold model, perceptron, adaline; Multi-layer feedforward networks (multi-layer perceptron) & error backpropagation, gradient descent in weight space, escape from local minima, convergence; Supervised learning/training; Later refinements-counter-propagation, Boltzmann machines; Hopfield networks, symmetrical weights, training, convergence, Hamming nets; Characteristics of neural nets: long-term memory (connect, short-term memory (input firing pattern), adaptive weights, learning ability, generalisation, noise- and fault-tolerance; Hardware realisations: massively parallel architectures, VLSI (digital & analog), optical. Comparison/contrast of neural networks versus digital computers; Connections versus traditional (rule-based, heuristic) artificial intelligence; Applications of neural nets: pattern recognition (hand-writing, speech, image). Laboratory exercises and assignments would be conducted using public domain neural network simulators on the IBM PC, Apple Macintosh and Unix.

References
Byte (special issue on Neural Networks), Vol 14, No 8, August 1989.

CSCI965 Design and Analysis of Algorithms
Autumn or Spring session; 6 credit points (2 hrs per wk).

Pre-requisites: CSCI202, CSCI203, Discrete Maths (including probability). Assessment: 3 assignments, each worth 10%, final examination 70%. Transmission of data over a channel or its storage in any kind of memory is subject to data corruption due to noise addition. In late 1940s Shannon introduced channel capacity as the fundamental bound on the rate of error free data transmission. In this course basic concepts of information theory such as entropy and mutual information are studied and are 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.

Topics include:
1. entropy, joint entropy, conditional entropy.
2. relative entropy and mutual information.
3. asymptotic equipartition property (AEP).
4. channel capacity.
5. linear codes and their fundamental parameters.
6. cyclic codes and their coding/decoding using shift registers.
7. BCH codes.
8. Reed-Solomon codes.

References:


Co-ordinator: Dr R Safavi-Naini.

CSCI967 Complexity Theory
Autumn or Spring session; 6 credit points (2 hrs per wk).
Pre-requisite: CSCI203, Knowledge of Discrete Math.
Assessment: 3 assignments, each worth 10%, final examination 70%.
The aim of the course is to introduce basic notions of the complexity theory.
The theory has emerged as the answer to the questions about inherent difficulty of problems.
A problem can be solved by a computer if it is possible to design an algorithm for it.
It turns out that there are problems for which it is impossible to find algorithms.
An example of such a problem is the well-known halting problem which asks if a given computer program eventually halts.
For some problems it is easy to find algorithms but they may not be efficient ones.
For example the travelling salesperson problem has resisted all attempts to find an efficient algorithm and all known algorithms are not much better than trying all possible solutions.
Complexity theory deals with problems which can be programmed and solved by computers.
As the basic model of computation, we use Turing machines.
During the course, the classes of P, NP, NPI and NP-complete will be defined.
Cook's theorem and its implications will be discussed.
We will also show some standard methods of proving the complexity of some problems.
Some applications of complexity theory will also be discussed.

References:

Co-ordinator: Associate Professor J Pieprzyk.

CSCI971 Advanced Computer Security
Autumn or Spring session; 6 credit points (2 hrs per wk).
Pre-requisite: CSCI361 Computer Security.
Assessment: seminar presentation 40%, final examination 60%.
Topics to be covered will include:

• computer crimes, legal aspects of information protection;
• mathematical methods used in cryptography, overview of selected aspects of complexity theory, information theory versus cryptography;
• review of classical ciphers;
• symmetric encryption algorithms, information access control mechanisms, secure communication protocols, public-key cryptography, authentication methods;
• applications of cryptography in computer networks and databases.

Textbooks:

References:

Co-ordinator: Professor J Seberry.

CSCI973 Computer Assisted Learning
Autumn or Spring session; 6 credit points (2 hrs per wk).
Assessment: literature review 20%, written report 20%, seminar presentation 30%, practical project 30%.
"Whenever a computer and a human interact and one of them learns something then computer assisted learning has been achieved" says Professor Dan Bitter. Many claims are made for the advantages provided by computer-assisted learning. There appears to be, however, a shortfall between "dreams" and "reality". In this course students will research the current state of CAL developments, the technology available, the software tools used and the general styles of CAL applications. We will discuss the current state of CAL from the point of view of the relationship between pedagogical theory and technological developments. Students will display their understanding of CAL by producing a short CAL sequence. Topics covered will include: What is CAL? Where is CAL used? Types of CAL material - e.g. drill and practice, tutorial, programmed instruction, teaching a course sequence, teaching a course; Managing a CAL environment; Features of "good" CAL; Current trends and future possibilities. Technology available e.g. CD ROM, videodisk, multi-media, etc. Technological feasibility and educational/social acceptance. "Authoring systems". Practical work will use Apple Macintosh and Hypercard and other available systems. Written assignments are to be word processed.

References:

CSCI974 Systems Analysis
Autumn or Spring session; 6 credit points (2 hrs per wk).
Pre-requisite: CSCI311 Software Engineering.
Assessment: three assignments each 10%, seminar presentation 10%, final examination 60%.
This course is intended to follow CSCI311 Software Engineering that introduces topics related to the development of large scale systems.
Objectives:
The course concentrates on the analysis and design stages of the software implement-ation process, both for initial implement-ation, and for long term maintenance. The aim is to present an integrated view of a number of software engineering models.

Topics:
Basic tools including dataflow models, entity-relationship and access and object-relationship data models, control flow and access diagrams, and event tables. Combination of basic tools into software engineering environments such as TPSs and "Quality Function Deployment (QFD) environments, together with additional process modelling and process control support tools. Case studies are based on representation large scale projects in the real time area.

Textbooks:
CSCI991 Project
12 credit points.

CSCI992 Minor Thesis
24 credit points.

CSCI993 Thesis
48 credit points.
ELECTRICAL AND COMPUTER 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. 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 Department. These are the Switched Networks Research Centre 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:

Switched Networks
- Antenna arrays and microwave antennas
- Coding
- Communications
- Computer networks
- Computer systems
- Digital signal processing
- Expert systems
- Microwave imaging
- Microwave heating
- Sensors and image processing
- System identification

Industrial Automation
- Advanced control systems
- Computer integrated manufacturing systems
- Electric motors
- Mobile robots, navigation and control
- Power electronics
- Power system control and stability
- Robotics and sensors
- Variable speed drives

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN AUTOMATION AND POWER ENGINEERING
leading to the Master of Engineering Studies.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC953</td>
<td>Report</td>
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<tr>
<td>ELEC955*</td>
<td>Advanced Laboratory</td>
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<tr>
<td>Electives** (a total of 30 credit points to be chosen from the following):</td>
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<td>ELEC911</td>
<td>Choppers and Inverters</td>
<td>6</td>
</tr>
<tr>
<td>ELEC912</td>
<td>AC Converters</td>
<td>6</td>
</tr>
<tr>
<td>ELEC924</td>
<td>Power Systems</td>
<td>6</td>
</tr>
<tr>
<td>ELEC928</td>
<td>Variable Speed Drives</td>
<td>6</td>
</tr>
<tr>
<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>ELEC961</td>
<td>Digital Signal Processing</td>
<td>6</td>
</tr>
<tr>
<td>ELEC973</td>
<td>Advanced Robotics and Sensory Systems</td>
<td>6</td>
</tr>
</tbody>
</table>

* With the approval of the Head of Department, 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 Department may approve relevant subjects from other programs. Under normal circumstances, this approval would not exceed subjects to a total value of 12 credit points.

For further details, see Course Descriptions below.
### POSTGRADUATE PROGRAM IN COMPUTER AND TELECOMMUNICATIONS ENGINEERING
leading to the Master of Engineering Studies.

<table>
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<tbody>
<tr>
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<tr>
<td>ELEC955*</td>
<td>Advanced Laboratory</td>
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<td>Electives** (a total of 30 credit points to be chosen from the following):</td>
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<td>Computer Controlled Systems</td>
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<td>ELEC960</td>
<td>Telecommunication Systems</td>
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<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>
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<tr>
<td>ELEC963</td>
<td>Advanced Digital Signal Processing</td>
<td>6</td>
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<td>ELEC965</td>
<td>Telecommunications Network Management</td>
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<tr>
<td>ELEC969</td>
<td>Computer Communications</td>
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</tbody>
</table>

* With the approval of the Head of Department, 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 Department may approve relevant subjects from other programs. Under normal circumstances, this approval would not exceed subjects to a total value of 12 credit points.

For further details, see Course Descriptions below.

### POSTGRADUATE PROGRAM IN TELECOMMUNICATIONS ENGINEERING
leading to the Honours Master of Engineering in Telecommunications Engineering.

<table>
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<th>Subject</th>
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<td>ELEC964</td>
<td>Integrated Service Networks</td>
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<td>ELEC966</td>
<td>Telecommunications Signal Processing</td>
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<tr>
<td>ELEC967</td>
<td>Teletraffic Engineering</td>
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</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 Department, one elective may be replaced by a suitable equivalent subject offered by another department.

For further details, see Course Requirements below.

### SCHEDULE OF POSTGRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
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<th>Credit Points</th>
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<tbody>
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<td>Graduate Certificate in Engineering (Telecommunications)</td>
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<tr>
<td>ELEC861</td>
<td>Telecommunications Systems</td>
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<td>ELEC862</td>
<td>Transmission Systems</td>
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<td>ELEC863</td>
<td>Telecommunication Signal Processing</td>
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<td>ELEC864</td>
<td>Telecommunication System Management</td>
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Graduate Certificate in Information and Communication Technology - Telecommunications Specialisation

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<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>ELEC868</td>
<td>Digital Transmission Systems</td>
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Master of Engineering Studies

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<td>ELEC911</td>
<td>Choppers and Inverters</td>
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<td>ELEC912</td>
<td>AC Converters</td>
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<td>ELEC915</td>
<td>Advanced Logic Design</td>
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<td>ELEC922</td>
<td>Industrial Design</td>
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<td>ELEC924</td>
<td>Power Systems</td>
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<td>ELEC925</td>
<td>Computer Applications in Power Systems</td>
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<tr>
<td>ELEC926</td>
<td>Machine Transients</td>
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<tr>
<td>ELEC928</td>
<td>Variable Speed Drives</td>
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<tr>
<td>ELEC932</td>
<td>Computer Hardware Architecture</td>
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<td>Real-time Computing</td>
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<td>ELEC943</td>
<td>Computer Controlled Systems</td>
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<td>ELEC944</td>
<td>Identification and Optimal Control</td>
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<td>ELEC953</td>
<td>Report</td>
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<td>ELEC955*</td>
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<td>ELEC960*</td>
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SCHEDULE OF POSTGRADUATE SUBJECTS (cont'd).

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<td>ELEC962*</td>
<td>Analysis and Transmission of Signals</td>
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<td>ELEC963*</td>
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<td>ELEC965*</td>
<td>Telecommunications Network Management</td>
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<td>ELEC969*</td>
<td>Computer Communications</td>
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<td>ELEC970</td>
<td>Special Topics in Engineering</td>
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</tr>
<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)

ELEC952 Thesis 36
ELEC964 Integrated Service Networks 4
ELEC966 Telecommunications Signal Processing 4
ELEC967 Teletraffic Engineering 4
ELEC968 Transmission Systems 4

Master of Engineering (Honours) and Doctor of Philosophy

ELEC951 Thesis 48 per year

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 an 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 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 Department, 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 an 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
ELEC968 Transmission Systems;

(Nota) Only three elective subjects will be offered in any one year. With the approval of the Departmental Head; one elective may be replaced by a suitable equivalent subject offered by another department).

Entry for graduates with a degree below a standard of Class II, Division 2

The Department 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 Department, as indicated below:

A. Automation and Power 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:

ELEC911 Choppers and Inverters
ELEC912 AC Converters
ELEC924 Power Systems
ELEC928 Variable Speed Drives
ELEC933 Real-time Computing
ELEC943 Computer Controlled Systems
including television broadcasts as the Graduate Certificate in Engineering (Telecommunications) is offered as a distance learning course.

**SUBJECT DESCRIPTIONS**

Where textbooks and/or co-ordinators are not specified, details will be made available at a later date.

**Assessment:**
All subjects offered by the Department of Electrical and Computer 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 identifiable within the student's own work.

Subject Co-ordinators

Whilst a Subject Co-ordinator has been given for each subject, it should be noted that the Co-ordinator this year may not be available for all subjects. Students will be given Subject Information Sheets in the first week of lectures with details of the Subject Co-ordinators, Lecturers, Demonstrators, Assessment, etc.

**Electrical and Computer Engineering**

**Certificate in Engineering**

*With the approval of the Head of Department, 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 Department 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
- ELEC944 Computer Controlled Systems
- ELEC950 Telecommunication Systems
- ELEC960 Digital Signal Processing
- ELEC961 Analysis and Transmission of Signals
- ELEC962 Advanced Digital Signal Processing
- ELEC965 Telecommunications Network Management
- ELEC969 Computer Communications

(b) ELEC953 Report
- ELEC954 Advanced Laboratory.

*With the approval of the Head of Department, 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 Department 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. **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 mixed mode techniques, including television broadcasts as the Graduate Certificate in Engineering (Telecommunications) is offered as a distance learning course.

**ELEC866 Telecommunication System Management**

*With the approval of the Head of Department, 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 Department 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
- ELEC944 Computer Controlled Systems
- ELEC950 Telecommunication Systems
- ELEC960 Digital Signal Processing
- ELEC961 Analysis and Transmission of Signals
- ELEC962 Advanced Digital Signal Processing
- ELEC965 Telecommunications Network Management
- ELEC969 Computer Communications

(b) ELEC953 Report
- ELEC954 Advanced Laboratory.

*With the approval of the Head of Department, 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 Department 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. **GRADUATE CERTIFICATE IN ENGINEERING (TELECOMMUNICATIONS)**

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For the Graduate Certificate in Engineering (Telecommunications), candidates enrol in the following subjects:

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- 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 mixed mode techniques, including television broadcasts as the Graduate Certificate in Engineering (Telecommunications) is offered as a distance learning course.

**SUBJECT DESCRIPTIONS**

Where textbooks and/or co-ordinators are not specified, details will be made available at a later date.

**Assessment:**
All subjects offered by the Department of Electrical and Computer 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 identifiable within the student's own work.

Subject Co-ordinators

Whilst a Subject Co-ordinator has been given for each subject, it should be noted that the Co-ordinator this year may not be available for all subjects. Students will be given Subject Information Sheets in the first week of lectures with details of the Subject Co-ordinators, Lecturers, Demonstrators, Assessment, etc.

**ELEC861 Telecommunications Systems**

*A* Autumn or Spring session; 6 credit points (42 hrs of lectures and tutorials, delivered by mixed mode techniques, including television broadcasts).

**Assessment:** See statement at beginning of Subject Descriptions.

Introduction to communications systems, including analogue and digital transmission systems, ISDN, cellular mobile radios and satellite communications. Time and frequency domain analysis of linear and deterministic signals (Fourier Transform; convolution and correlation; continuous and discrete time linear systems). Analogue modulation systems and spectra (amplitude, frequency and phase modulation).

**Textbook:**

**Co-ordinator:** Professor G J Anido.

**ELEC862 Transmission Systems**

*A* Autumn or Spring session; 6 credit points (42 hrs of lectures and tutorials, delivered by mixed mode techniques, including television broadcasts).

**Assessment:** See statement at beginning of Subject Descriptions.

Wave propagation in cables, waveguides and atmosphere, radiation and antennas.

**Textbook:**

**Co-ordinator:** Professor G J Anido.

**ELEC863 Telecommunication Signal Processing**

*A* Autumn or Spring session; 6 credit points (42 hrs of lectures and tutorials, delivered by mixed mode techniques, including television broadcasts).

**Assessment:** See statement at beginning of Subject Descriptions.

Band-limited signals, sampling theorem, aliasing. Finite and infinite impulse response digital filter structures and frequency response, design methods for digital filters. The discrete Fourier Transform; the Fast Fourier Transform algorithms. Linear prediction and its application to reduced bandwidth transmission of signals.

**Textbook:**

**Co-ordinator:** Professor G J Anido.

**ELEC864 Telecommunication System Management**

*A* Autumn or Spring session; 6 credit points (42 hrs of lectures and tutorials, delivered by mixed mode techniques, including television broadcasts).

**Assessment:** See statement at beginning of Subject Descriptions.

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.

**Co-ordinator:** Professor G J Anido.

**ELEC865 Integrated Service Networks**

*A* Autumn, Spring or Summer session; 6 credit points (42 hrs of lectures and tutorials). Pre-requisite: BE in Electrical Engineering or equivalent.

**Assessment:** See statement at beginning of Description of Subjects.

Topics covered will include: switching systems; narrowband ISDN; SS7; local and metropolitan area networks; and LAN and MAN networks.

**Co-ordinator:** Professor G J Anido.

**ELEC866 Telecommunication System Management**

*A* Autumn or Spring session; 6 credit points (42 hrs of lectures and tutorials, delivered by mixed mode techniques, including television broadcasts).

**Assessment:** See statement at beginning of Subject Descriptions.

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.

**Co-ordinator:** Professor G J Anido.
ELEC867 Teletraffic Engineering
Autumn, Spring or Summer session; 6 credit points (28 hrs lectures and 28 hrs tutorials).
Pre-requisite: BE in Electrical Engineering or equivalent.
Assessment: see statement at beginning of Description of Subjects.
ELEC867 is one of a number of elective subjects available within the Graduate Certificate in Information and Communication Technology - Telecommunications Specialisation. The aim of this subject is to provide students with the fundamental and advanced knowledge of teletraffic analysis, monitoring and measurements in voice and data systems and networks.
Topics covered include: introduction to teletraffic engineering; queuing 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; computer simulation and modelling techniques; optimal capacity allocation; direct and alternate routing; overflow traffic; telephone networks and switching systems.
Textbook:
Co-ordinator: Professor G J Anido.

ELEC868 Digital Transmission Systems
Autumn, Spring or Summer session; 6 credit points (28 hrs lectures and 28 hrs tutorials).
Pre-requisite: BE in Electrical Engineering or equivalent.
Assessment: see statement at beginning of Description of Subjects.
ELEC868 is one of a number of elective subjects available within the Graduate Certificate in Information and Communication Technology - Telecommunications Specialisation. The aim of this subject is 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.
Topics covered include: convolutional coding; block coding; digital modulation; spread spectrum; transmission media; plesiochronous digital hierarchy; synchronous digital hierarchy, including such aspects as timing, transmission system performance, management and control.
Textbook:
Co-ordinator: Professor G J Anido.

ELEC911 Choppers and Inverters
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
Power transistors, MOSFETs and diodes: commutation, snubbing, drive and protection; waveform control and filtering; choppers, inverters, switched mode power supplies. Current research developments.
Textbook:
Co-ordinator: Associate Professor V J Gosbell.

ELEC912 AC Converters
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
Diode, SCR, Triac: their characteristics and protection. 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. Current research developments.
Co-ordinator: Associate Professor V J Gosbell.

ELEC915 Advanced Logic Design
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
Co-ordinator: Professor G J Anido.

ELEC922 Industrial Design
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
This subject will cover selected topics from design techniques for electrical equipment, such as electric motors, transformers, reactors, contactors, insulators, buses, etc. Topics to be covered will include magnetic and electric circuits, electric fields in insulators, thermal systems, mechanical constraints, audible noise and skin effect. Current research developments.
Co-ordinator: Associate Professor V J Gosbell.

ELEC924 Power Systems
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
Power system components, layout, frequency control, voltage control, fault analysis, stability, protection. Current research developments.
Textbook:
Co-ordinator: Associate Professor V J Gosbell.

ELEC925 Computer Applications in Power Systems
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
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. Current research developments.
Co-ordinator: Associate Professor V J Gosbell.

ELEC926 Machine Transients
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
Co-ordinator: Associate Professor V J Gosbell.

ELEC928 Variable Speed Drives
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
Co-ordinator: Associate Professor V J Gosbell.

ELEC932 Computer Hardware Architecture
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
Memory organisation and management, including cache memory; input/output systems; DMA and interrupts; I/O processors; pipeline processors, multiprocessors, complex instruction set processors; and reduced instruction set processors. Micro-programming; micro-processors and micro-computer hardware (bus system, multiplex bus system organisation); and interface design. Programming of micro-computers with reference to appropriate micro-computers. Micro-computer applications. Current research developments.
Textbook:
Co-ordinator: Professor G J Anido.

ELEC933 Real-time Computing
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
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. Current research developments.
Co-ordinator: Professor G J Anido.

ELEC943 Computer Controlled Systems
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
Discrete-time observations; control and feedback; digital regulator design; and digital tracking system design. Digital control of continuous-time systems and step
varying systems. Current research developments.


Co-ordinator: Professor C D Cook.

ELEC944 Identification and Optimal Control
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).

Pre-requisite: ELEC943.

Assessment: see statement at beginning of Subject Descriptions.

Fundamentals of system identification. Parameter estimation algorithms, including least squares and stochastic least squares; maximum likelihood; and recursive least squares algorithm. Introduction to optimal control; linear quadratic optimal control; linear quadratic Gaussian control and Kalman filtering. Current research developments.

Co-ordinator: Professor C D Cook.

ELEC951 Thesis
Autumn or Spring or Double session; 48 credit points per year.

ELEC952 Thesis
Autumn or Spring or Double session; 36 credit points.

ELEC953 Report
Autumn or Spring session (A); 12 credit points .

Pre-requisite: ELEC955 Advanced Laboratory.

Co-requisite: 36 credit points 900-level.

Assessment: see statement at beginning of Subject Descriptions.

Projects may involve a hardware project, including the design and construction of experimental apparatus; a software project, including the development of software; or an extensive literature survey; or a combination of any of these. Where possible the projects are related to the research programs of the Department 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.

Textbooks:


Co-ordinator: Professor C D Cook.

ELEC955 Advanced Laboratory
Autumn or Spring session; 6 credit points (84 hours of practical).

Assessment: see statement at beginning of Subject Descriptions.

The aim of this subject is to provide students with an opportunity to apply and verify theory in areas associated with the postgraduate programs through laboratory experiments and computer studies. Students will be expected to design, perform, analyse and write reports on projects selected to illustrate practical issues selected from the two postgraduate programs.

Co-ordinator: Dr F Naghdy.

ELEC960 Telecommunication Systems
Spring, Autumn or Summer session; 6 credit points (56 hrs of lectures and tutorials/seminars).

Pre-requisite: BE in Electrical Engineering or equivalent.

Assessment: see statement at beginning of Subject Descriptions.

Aims of this subject are to provide students with a thorough understanding of the theory and application of advanced digital signal processing techniques. Theory: topics covered include: multirate processing, spectral estimation and least squares methods. Applications: topics may cover adaptive signal processing, speech processing and image processing.

Textbooks:


Co-ordinator: Professor G J Anido.

ELEC961 Digital Signal Processing
Spring, Autumn or Summer session; 6 credit points (56 hrs of lectures and tutorials/seminars).

Pre-requisite: BE in Electrical Engineering or equivalent.

Assessment: see statement at beginning of Subject Descriptions.

Band-limited signals, sampling theorem, aliasing; finite- and Infinite- impulse-response digital filter structures and frequency response design methods for digital filters; the discrete Fourier transform; Fast Fourier Transform algorithms; current research developments.

Textbooks:


Co-ordinator: Professor G J Anido.

ELEC962 Analysis and Transmission of Signals
Spring, Autumn or Summer session; 6 credit points (56 hrs of lectures and tutorials/seminars).

Pre-requisite: BE in Electrical Engineering or equivalent.

Assessment: see statement at beginning of Subject Descriptions.

High frequency signal propagation in transmission lines, waveguides and atmosphere, radiation and antennas, fibre optics, filters; current research developments.

Textbooks:


Co-ordinator: Professor G J Anido.

ELEC963 Advanced Digital Signal Processing
Spring or Summer session; 6 credit points (42 hrs lectures, tutorials and practical work).

Pre-requisite: BE in Electrical Engineering or equivalent and ELEC961.

Assessment: see statement at beginning of Subject Descriptions.

Aims of this subject are to provide students with a thorough understanding of the theory and application of advanced digital signal processing techniques. Theory: topics covered include: multirate processing, spectral estimation and least squares methods. Applications: topics may cover adaptive signal processing, speech processing and image processing.

Textbooks:


Co-ordinator: Professor G J Anido.

ELEC964 Integrated Service Networks
Autumn or Spring session, 4 credit points (42 hrs lectures and tutorials).

Assessment: see statement at beginning of Subject Descriptions.


Co-ordinator: Professor G J Anido.

ELEC965 Telecommunications Network Management
Spring, Autumn or Summer session; 6 credit points (28 hrs lectures, 14 hrs practical and 14 hrs tutorials).

Pre-requisite: BE in Electrical Engineering or equivalent.

Assessment: see statement at beginning of Subject Descriptions.

ELEC965 is one of a number of elective subjects available within the Postgraduate Program in Computer and Telecommunications Engineering. The aims of this subject are to provide students with a thorough understanding of the technical issues of telecommunications management, current management systems and their future evolution, to 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.

Topics covered will include: areas 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 telecommunication systems; regulatory structure and international interworking issues and current research areas.

Co-ordinator: Professor G J Anido.

ELEC966 Telecommunications Signal Processing
Spring or Summer session; 4 credit points (42 hrs lectures and tutorials).

Assessment: see statement at beginning of Subject Descriptions.

Aims of this subject are to provide students with a thorough understanding of the theory and application of advanced digital signal processing techniques. Theory: topics covered include: multirate processing, spectral estimation and least squares methods. Applications: topics may cover adaptive signal processing, speech processing and image processing.

Textbooks:


Co-ordinator: Professor G J Anido.

ELEC966 Telecommunications Signal Processing
Spring or Summer session; 4 credit points (42 hrs lectures and tutorials).

Co-ordinator: Professor G J Anido.

Textbooks:

Co-ordinator: Professor G J Anido.

ELEC967 Teletraffic Engineering
Autumn or Spring session; 4 credit points (42 hrs lectures and tutorials).
Assessment: see statement at beginning of Subject Descriptions.
The subject 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, based on the real traffic data collected on national and international links, allow students to practice analysis of systems performance and to compare the results with those obtained from theoretical models. The students after the completion of this subject will be able to use traffic theory for provisioning of systems/networks, for performance analysis of existing and planned systems and for more advanced traffic studies.


Textbook:

Co-ordinator: Professor G J Anido.

ELEC968 Transmission Systems
Autumn or Spring session; 4 credit points (42 hrs lectures and tutorials).
Assessment: see statement at beginning of Subject Descriptions.

Co-ordinator: Professor G J Anido.

ELEC969 Computer Communications
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Pre-requisite: BE in Electrical Engineering or equivalent.
Remarks: Not to count with CSC1955
Assessment: see statement at beginning of Subject Descriptions.
Textbook:

Co-ordinator: Professor G J Anido.

ELEC970 Advanced Topics in Engineering
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Assessment: see statement at beginning of Subject Descriptions.
The aim of this subject 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. Selected topics within the fields of computer and telecommunications engineering or automation and power engineering.

Co-ordinator: Professor C D Cook.

ELEC973 Advanced Robotics and Sensory Systems
Autumn or Spring session; 6 credit points (56 hrs of lectures and tutorials/seminars).
Remarks: Not to count with CSCI956 or MECH950.
Assessment: see statement at beginning of Subject Descriptions.
Robotic manipulation, direct kinematics, inverse kinematics, workspace analysis and trajectory planning, differential motion and statics, manipulator dynamics, robot control. Robotic sensors, including tactile and vision, task planning, robotics in automated manufacturing. Current research developments.

Co-ordinator: Professor C D Cook.
INFORMATION AND COMMUNICATION TECHNOLOGY

COURSES OFFERED

The following postgraduate courses are available:

1. Doctor of Philosophy
2. Honours Master of Information and Communication Technology by Coursework and/or Research
3. Master of Information and Communication Technology
4. Graduate Certificate in Information and Communication Technology

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

SCHEDULE OF GRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<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>IACT905</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>
<td>6</td>
</tr>
<tr>
<td>IACT922</td>
<td>Case Studies in Information Technology Applications</td>
<td>6</td>
</tr>
<tr>
<td>IACT923</td>
<td>IT and Small Business</td>
<td>6</td>
</tr>
<tr>
<td>IACT924</td>
<td>Advanced Telecommunications Network Planning</td>
<td>6</td>
</tr>
<tr>
<td>IACT926</td>
<td>The Impact of IT on Education &amp; Training</td>
<td>6</td>
</tr>
<tr>
<td>IACT930</td>
<td>Special Topics</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>
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Part B

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<th>Subject</th>
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<tr>
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<tr>
<td>STS 945 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.
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 GRADUATE CERTIFICATE

<table>
<thead>
<tr>
<th>Core Subjects</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>IACT904*</td>
<td>International Telecommunications Policy Issues</td>
<td>6</td>
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<td>IACT905*</td>
<td>Information Technology and Innovation</td>
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<td>IACT916</td>
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<td>IACT930</td>
<td>Special Topics</td>
<td>6</td>
</tr>
</tbody>
</table>

*Only one of these subjects would be offered in any year.
All subjects may not be available every year.
A candidate must satisfactorily complete at least 12 credit points from the core subjects.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

Candidates for this degree enrol in IACT970.

2. 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 the Department of Information and Communication Technology. 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 (Hons) (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, Department of Information and Communication Technology.

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 Department of Information and Communication Technology.

3. 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 of the Department of Information and Communication Technology. Candidates would normally have:

(a) 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, Department of Information and Communication Technology.

4. 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 a 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.

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 or Spring session; 6 credit points; 3 lecture; 2 seminars/practicals/workshops Assessment: Report (1500 words) 15%; Report (2500 words) 25%; Major Report (IT plan) 50%; Seminar 15%

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 and 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.

Co-ordinator: Professor Joan Cooper

IACT902 Applied Project Management

Autumn or Spring session; 6 Credit Points; 1 hour lecture; 2 hours seminar/practicals/workshops Assessment: Analysis Report 30%; Design Report 30%; Implementation of Project 30%; Seminar 10%

This subject teaches students how to manage a medium size project efficiently to ensure that a project meets deadlines and is within its budget. This subject covers the process of planning, directing and controlling the development of a medium size IT project at a minimum cost within a specified budget. Topics covered will include project management tools and techniques; project management software; expectations management matrices; and use of people management (the subtle art of delegation and accountability). Students will test the principles on the plan, design and implementation of a medium size project.

Co-ordinator: Dr Leone Dunn

IACT904 International Telecommunications Policy Issues

Autumn or Spring Session; 6 credit points; 3 contact hours; 1 hour lecture; 2 hours seminar/tutorial Assessment: Examination 40%; Tutorial/ seminar assignments 40%; Essay 20%

IACT 904 aims to provide students with an understanding of the policy issues which have shaped international telecommunications as well as Australian telecommunications. There has been a period of rapid technological innovation, industry restructuring and regulatory change in international telecommunications in recent years. This subject analyses policy issues relating to the emergence of political, economic and technological change in international telecommunications. The interdisciplinary foundations of telecommunications policy are examined as well as the implications of concepts such as deregulation and privatisation for the telecommunications industry. 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).

Co-ordinator: Dr R Joseph

IACT905 Information Technology and Innovation

Autumn or Spring Session; 6 credit points; 3 contact hours; 1 hour lecture; 2 hours seminar/tutorial Assessment: Examination 40%; Tutorial/ seminar assignments 40%; Essay 20%

IACT 905 aims to provide students with an understanding of the various political, economic, social and technical factors surrounding information technology and the innovation process. The rapid development of information technology networks has prompted governments to develop national policies to promote the growth of services in these areas. Innovation in information technology and its effective use is now seen to underpin international competitiveness. Successful innovation policies are now central to the future viability of industry and nations alike. 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. Issues of the role of multinationals, transborder data flows and research and development are discussed in this context.

Co-ordinator: Dr R Joseph

IACT916 Organisational Issues in Information Technology

Autumn or Spring Session; 6 credit points (3 contact hrs).

Assessment: 3 essays 75%, seminars 15%, tutorials 10%.

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 inform-

ation management; implications of broadband networks for traffic integration.

Co-ordinator: Mr A Dean

IACT917 The Information Market

Autumn or Spring session; 6 credit points (3 contact hrs).

Assessment: 2 x 3,000 word essays 60%, seminars/tutorials 40%.

In its investigation of the information market, this subject 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 patents, copyright and other forms of intellectual property) is also explored. The development of an information infrastructure with the spread of computer networks is facilitating the emergence of a global information marketplace. An important focus in this subject is the effect of information and communication technologies on the economics of information delivery.

Co-ordinator: Ms C Alcock

IACT918 Telecommunications Management

Autumn or Spring session; 6 credit points (3 contact hrs).

Assessment: 1 examination 50%, 2 x 1,500 word essays 30%, seminars 20%.

Role of telecommunications in corporate strategy: cost control versus business development; regulatory and strategic issues in the use of private and public networks; service options in Local Area Networks (LANS); private automatic branch exchanges; narrowband versus broadband in intra-office communications; integration of voice, data and video in national and global networks.

Co-ordinator: Dr R Lindley

IACT919 Online Information Services

Autumn or Spring session; 6 credit points (3 contact hrs).

Assessment: 1 x 3000 word essay 30%, 1 report 30%, seminars/tutorials 40%.

This subject examines the emergence of electronic information supermarkets and the changes in ownership that have taken place within the online information industry as mass media conglomerates have entered the field. Other aspects covered include: the role of government in the development of online databases and networks; the creation of "value-added" products through re-formatting, marketing and electronic delivery of information; the future of public information sources such as libraries and government data collection and publication agencies in a changing online environment; and the potential of network developments such as AARNet, the Internet, and NREN in the delivery of online information resources. Some practical experience in the use of electronic information services is provided including Australian and international databases and computer networks.

Co-ordinator: Ms C Alcock
IACT922 Case Studies in Information Technology Applications  
Autumn or Spring session; 6 credit points (3 hrs per wk).  
Assessment: 2 written reports 70%, seminar presentations 30%.  
Topics covered will include: innovative uses of information technology to create new services and systems e.g., electronic banking, international currency trading; centralised mainframe computing versus distributed intelligence; technology options for high-speed data networks; videoconferencing as a travel substitute; public information retrieval systems e.g. videotex.  
Co-ordinator: Dr Leone Dunn

IACT923 IT and Small Business  
Autumn or Spring session; 6 credit points (3 contact hrs).  
Assessment: written assignments 85%, seminar 15%.  
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 regard to a number of critical areas such as productivity, staff development, accessibility of technology, business size and activity, change management, research and development.  
Co-ordinator: Mr A Dean

IACT924 Advanced Telecommunications Network Planning  
Autumn or Spring session; 6 credit points (3 contact hrs).  
Assessment: essay 20%, seminar presentation 20%, tutorial paper 10%, and case study 50%.  
The process of developing a telecommunications network plan is becoming a more difficult task with the rapid diversification and advances in the technological and design options available. This subject investigates Telecommunications Network Planning in greater depth, providing details of the operation of a telecommunications network as a complex, interrelated set of operations. It examines the scope of the network operations plan from the user’s perspective. Topics will include: (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.  
Case Study  
Students will be required to critically analyse the telecommunications network plan for a large corporation.  
Co-ordinator: Dr R Lindley

IACT926 The Impact of IT on Education and Training  
Spring or Autumn session; 6 credit points (3-4 hrs per week).  
Assessment: written assignments (seminar, projects, case studies, essays)  
The subject will examine the changing composition of the work force and relate this to the introduction and application of IT. An examination of the trends in Australia, and internationally, with respect to increasing credentialism, life-long learning and other education and training issues will be undertaken. Study of the appropriate use of techniques and technologies of education, including expansion of distance education, will form another component of the subject.  
Co-ordinator: Mr A Dean

IACT930 Special Topics  
Autumn or Spring session; 6 credit points (3 hrs per wk).  
Assessment: to be advised.  
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. Noting that IT is a rapidly changing area, this subject will allow for the inclusion in the MInfoTech degree topics at the forefront of the discipline.  
Co-ordinator: Professor J Cooper

IACT950 Research Report  
Annual; 12 credit points.  
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 credit points.  
This subject will be externally accessed.

IACT970 Major Thesis  
Annual; 48 credit points per year of enrolment.
MATHEMATICS

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

POSTGRADUATE PROGRAMS

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
- Fluid mechanics
- Functional analysis
- Hadamard matrices
- Industrial applications of mathematics
- Logic
- Measure theory
- Non-linear boundary value problems
- Non-linear partial differential equations
- Numerical wave modelling
- Oceanography
- Quantum mechanics
- Set theory
- Solid and fracture mechanics
- 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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<tbody>
<tr>
<td>Core</td>
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<tr>
<td>Either</td>
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<tr>
<td>MATH991</td>
<td>Project</td>
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<tr>
<td>or</td>
<td>MATH992 Minor Thesis</td>
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<td>Electives</td>
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<tr>
<td>MATH902</td>
<td>Solution of Differential Equations by One-Parameter Groups</td>
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<tr>
<td>MATH911</td>
<td>Coastal Dynamics</td>
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<td>MATH912</td>
<td>Mathematics of Microwave Heating</td>
<td>6</td>
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<tr>
<td>MATH913</td>
<td>Fluid Mechanics and Wave Theory</td>
<td>6</td>
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<tr>
<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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<tr>
<td>MATH917</td>
<td>Advanced Numerical Analysis</td>
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<td>MATH918</td>
<td>Computational Fluid Mechanics</td>
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<tr>
<td>MATH971</td>
<td>Advanced Topics in Applied Mathematics A</td>
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<td>MATH972</td>
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<tr>
<td>MATH980</td>
<td>Preliminary Topics in Mathematics A</td>
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<td>MATH981</td>
<td>Preliminary Topics in Mathematics B</td>
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</table>

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.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>Program A - Analysis</td>
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<td>MATH991</td>
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<td>or</td>
<td>MATH992</td>
<td>Minor Thesis</td>
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<td>Electives</td>
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<tr>
<td>MATH904</td>
<td>Stability for Partial Differential Equations</td>
<td>6</td>
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<tr>
<td>MATH905</td>
<td>Functional Analysis and Control Theory</td>
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<tr>
<td>MATH921</td>
<td>Advanced Functional Analysis</td>
<td>6</td>
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<tr>
<td>MATH923</td>
<td>Measure and Integration</td>
<td>6</td>
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<tr>
<td>MATH924</td>
<td>Distributions</td>
<td>6</td>
</tr>
<tr>
<td>MATH928</td>
<td>Advanced Measure Theory</td>
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<tr>
<td>MATH973</td>
<td>Advanced Topics in Pure Mathematics A</td>
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<tr>
<td>MATH974</td>
<td>Advanced Topics in Pure Mathematics B</td>
<td>6</td>
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<tr>
<td>MATH980</td>
<td>Preliminary Topics in Mathematics A</td>
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<tr>
<td>MATH981</td>
<td>Preliminary Topics in Mathematics B</td>
<td>6</td>
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</tbody>
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Program B - Foundations of Mathematics

| Core | Either | |
| MATH991 | Project | 12 |
| or | MATH992 | Minor Thesis | 36 |
| Electives | | |
| MATH903 | Mean Periodic Functions | 6 |
| MATH925 | Topics in Algebra | 6 |
| MATH926 | Logic and Set Theory | 6 |
| MATH927 | Combinatory Logic | 6 |
| MATH929 | General Topology | 6 |
| MATH973 | Advanced Topics in Pure Mathematics A | 6 |
| MATH974 | Advanced Topics in Pure Mathematics B | 6 |
| MATH980 | Preliminary Topics in Mathematics A | 6 |
| MATH981 | Preliminary Topics in Mathematics B | 6 |

For further details, see Course Requirements below.

**COURSE REQUIREMENTS**

1. **DOCTOR OF PHILOSOPHY**

Candidates for this degree enrol in MATH993.

2. **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 one of the postgraduate programs offered by the Department of Mathematics.

(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 Department of Mathematics.

(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 Department of Mathematics 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 Department.

In exceptional circumstances, and subject to approval of the Head of the Department, 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 Department of Mathematics.

(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. **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 Department of Mathematics.

(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 Department, 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 Department. In exceptional circumstances, and subject to approval of the Head of the Department, subjects other than MATH991, may be replaced by other 900 level subjects with value
SUBJECT DESCRIPTIONS

Subjects
For further details, see the postgraduate coursework co-ordinator: Associate Professor J Hill.

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 and MATH993, 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.

MATH905 Functional Analysis and Control Theory
Assessment: examination 75%, assignments 25%
Pre-Requisite: MATH305, MATH222.
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.
Co-ordinator: Dr V Belov / Dr G Williams.

MATH911 Coastal Dynamics
Assessment: examination 75%, assignments 25%
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.
Co-ordinator: Associate Professor D Clarke.

MATH912 Mathematics of Microwave Heating
Assessment: examination 75%, assignments 25%
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.
Co-ordinator: Dr T Marchant.

MATH913 Fluid Mechanics and Wave Theory
Assessment: examination 75%, assignments 25%
Hyperbolic partial differential equations, conservation laws, shallow water equations, dispersive waves, soliton theory, gas dynamics, shock waves, flow past bodies, conformal mapping, aerofoil theory.
Co-ordinator: Dr T Marchant.

MATH914 Analytical Dynamics
Assessment: examination 75%, assignments 25%
Lagrangian and Hamiltonian formulations, symmetry and conservation laws. Regular and chaotic motion. Strange attractors.
Co-ordinator: Professor P Broadbridge.

MATH915 Applied Nonlinear Partial Differential Equations
Assessment: examination 75%, assignments 25%
Co-ordinator: Professor P Broadbridge.

MATH916 Heat Conduction and Moving Boundary Problems
Assessment: examination 75%, assignments 25%
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.
Co-ordinator: Associate Professor J Hill.

MATH917 Advanced Numerical Analysis
Assessment: examination 75%, assignments 25%
Co-ordinator: to be advised.

MATH918 Computational Fluid Mechanics
Assessment: examination 75%, assignments 25%
Finite-difference and finite element methods applied to incompressible inviscid flow problems and incompressible viscous flow problems. Introduction to Boundary-element technique and its application to potential flows. The relationship between these numerical approaches will also be discussed.
Co-ordinator: Dr S Zhu.

MATH921 Advanced Functional Analysis
Assessment: examination 75%, assignments 25%
Normed spaces, Banach spaces, linear operators, applications of the theory of linear operators to other areas of analysis such as Fourier analysis, quadrature formulae and integral equations.
Co-ordinator: Associate Professor R Nillsen.

MATH922 Measure and Integration
Assessment: examination 75%, assignments 25%
Lebesgue measure and more general measures, measurable functions, Lebesgue integration and its properties, behaviour of integrals under taking limits, product integrals.
Co-ordinator: Associate Professor R Nillsen / Dr G Williams.

MATH923 Distributions
Assessment: examination 75%, assignments 25%
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.
Co-ordinator: Associate Professor P Laird.

MATH924 Topics in Algebra
Assessment: examination 75%, assignments 25%
Partially ordered sets, lattices, modular lattices, Boolean Algebras and Boolean rings, orthomodular lattices.
Co-ordinator: Dr F Prokop.

MATH925 Logic and Set Theory
Assessment: examination 75%, assignments 25%
Axiomatic propositional and predicate logic,
nondassical logics, applications to circuit
tory and logic programming, introduction
to Axiomatic Set Theory.
Co-ordinator: Associate Professor M Bunder.

MATH927 Combinatory Logic
Assessment: examination 75%, assignments
25%.
Pre-Requisite: MATH926.
Introduction to Pure and Illature
combinatory logic, relation to lambda-
conversion, functionality, application to
propositional and predicate calculus.
Co-ordinator: Associate Professor M Bunder.

MATH928 Advanced Measure
Theory
Assessment: examination 75%, assignments
25%.
Pre-Requisite: MATH923.
Construction of outer, measures, Hausdorff
measures, signed measures, Radon-Nikodym
theorem, differentiation of measures.
Co-ordinator: Dr G Williams.

MATH929 General Topology
Assessment: examination 75%, assignments
25%.
Prerequisite: MATH222.
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
subbases 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.
Co-ordinator: Dr P Nickolas.

MATH971 Advanced Topics in
Applied Mathematics A
Assessment: examination 75%, assignments
25%.
Topics will be selected from the areas of
interest of staff members or visiting staff
members of the department.
Co-ordinator: Head of Department.

MATH972 Advanced Topics in
Applied Mathematics B
Assessment: examination 75%, assignments
25%.
Topics will be selected from the areas of
interest of staff members or visiting staff
members of the department.
Co-ordinator: Head of Department.

MATH973 Advanced Topics in
Pure Mathematics A
Assessment: examination 75%, assignments
25%.
Topics will be selected from the areas of
interest of staff members or visiting staff
members of the department. These may
include topics in Analysis, Algebra, Logic or
Number Theory.
Co-ordinator: Head of Department.

MATH974 Advanced Topics in
Pure Mathematics B
Assessment: examination 75%, assignments
25%.
Topics will be selected from the areas of
interest of staff members or visiting staff
members of the department. These may
include topics in Analysis, Algebra, Logic or
Number Theory.
Co-ordinator: Head of Department.

MATH980 Preliminary Topics in
Mathematics A
A selection of topics will be available from
time to time to serve as preliminary material
in the Master of Mathematics.
Co-ordinator: Head of Department.

MATH981 Preliminary Topics in
Mathematics B
A selection of topics will be available from
time to time to serve as preliminary material
in the Master of Mathematics.
Co-ordinator: Head of Department.

MATH991 Project
12 credit points.

MATH992 Minor Thesis
36 credit points.

MATH993 Thesis
48 credit points per year.
FACULTY OF LAW
FACULTY OF LAW

FACULTY OFFICE

Dean: Professor Helen Gamble
Associate Dean: Associate Professor Colin Thomson
Sub Deans: Ms Patricia Blazey-Ayoub and Mr Luke McNamara
Dean’s Assistant: Ms Felicia Martin
Student Liaison Officer: Ms Frances Sullivan (024) 21 4426
Administrative Assistant: Ms Suzana Kouzan (042) 21 3456

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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<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 the method of presentation of any unit of study, or to withdraw any unit or course which it offers, or impose limitations 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

Associate Dean
Associate Professor Colin J H Thomson, BA LLM Syd, Solicitor NSW, Barrister and Solicitor ACT

Sub-Dean
Patricia J Blazey-Ayoub, SRN Lon, BA LLB LLM
Macq, BA LLB, Solicitor NSW

Executive Officer
Wendy Raikes, BA, MMgt, MAITEA

Administrative Assistants
Maria Agnew
Shelley Johnson
Felicia Martin
Frances Sullivan, BA, MAITEA

Professors
M David Farrier, LLB Lond, LLM Col, DipCrim Camb, Barrister NSW
John Goldring, BA LLB Syd, LLM Col, Barrister NSW, Barrister and Solicitor ACT and PNG
B Martin Tsamenyi, LLB Ghana, MIntL PhD ANU

Associate Professors
Kenneth W Hale, BA LLB Qld, LLM Syd, Barrister NSW and High Court
Robin P Handley, LLB Waru, LLM ANU, Solicitor NSW, England and Wales, Barrister and Solicitor ACT and High Court
Ainslie Lamb, LLB Melb, GDipSoc La Trobe, GDipFamLaw Monash, MEd Melb

Adjunct Professor
Lindsay J Curtis, BSc LLB Melb, Barrister and Solicitor ACT and PNG

Honorary Professorial Fellows
G Leroy Certoma, BA LLB(Hons)Syd, Dott in Giur Firenze, Solicitor NSW
Peter Hopkins, BEc, LLB(Hons) ANU
Beverley Hoskisson-Green, LLB NSW, LLM(Hons) Harvard
Jillian Segal, BA LLB NSW, LLM Harvard
Shane Simpson, LLB LLM Auckland
John Whitehouse, BA LLB Syd, BSc Macq, DipLegalScience UTS

Senior Lecturers
Charles Y C Chew, MA Syd, DipEd NE, BLegS Macq, Barrister and Solicitor VIC, Solicitor NSW
Damien Considine, BA LLB UNSW, LLM Syd, Solicitor and Attorney NSW and High Court
Jane G Innes, BEc LLM Syd, Solicitor NSW, Barrister and Solicitor ACT and Vic

Lecturers
Margaret Bond, BSW LLB UNSW, Solicitor NSW
Andrew D Frazer, BA LLB Syd, PhD ANU
D Scott Grattan, BA LLB Macq, Solicitor NSW
Andrew H H Kelly, BTP LLB, UNSW, Grad Dip Leg Prac LTS, Solicitor NSW
Luke McNamara, BA LLB UNSW, LLM Monit
Sandra Mercado, BA LLM Syd, Barrister NSW

Thomas Musgrave, BA Winds, LLB BCL McGill, LLM Melb, PhD Syd, Solicitor and Barrister Supreme Court Ontario
Natalie P Stuijans, BSc LLB MAAppSc UNSW, Solicitor NSW
Penelope Watson, BA Tas, LLB UNSW, LLM Syd, Solicitor NSW

Research Director
Richard Mohr, BA PhD UNSW

Honorary Fellows
William Dulley, BA LLB Syd, Barrister ACT and NSW
Liane Degville, BA Qld, LLB Adelaide, LLM Keio, Tokyo
Danny Lagopoulos, BLegS Macq, BCom MStudAcc, Solicitor NSW
Ian McCall, Solicitor NSW
William McKinnon Macquarie, Solicitor NSW

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
Sandi Wooton

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 Ch'ang, Legal Counsel, 1BM Australia
Mr Stephen Gates, Partner, Clayton Utz, Sydney
Mr Laurie Glanfield, Director-General, Attorney General’s Department of NSW
Mr Peter Hidden, QC, Sydney
The Honourable Dr Robert M Hope, QC, Chancellor, University of Wollongong (ex-officio)
Ms Gai McDowell, Director of Wollongong Office, Director of Public Prosecutions
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, Deputy President, Australian Law Reform Commission
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

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>LAW902</td>
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<tr>
<td>LAW903</td>
<td>Research Project B</td>
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<tr>
<td>LAW904</td>
<td>Research Project C</td>
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<td>LAW905</td>
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<td>LAW951</td>
<td>Taxation Policy and Practice</td>
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<tr>
<td>LAW953</td>
<td>Studies in Taxation</td>
<td>6</td>
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<tr>
<td>LAW963</td>
<td>Jurisprudence</td>
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<td>LAW964</td>
<td>Studies in Business Law</td>
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<tr>
<td>LAW965</td>
<td>Studies in Administrative Law</td>
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<td>LAW966</td>
<td>Studies in Industrial Law</td>
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<td>LAW967</td>
<td>Studies in Trade Practices and Consumer Law</td>
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<tr>
<td>LAW968</td>
<td>Issues in the Philosophy of Law</td>
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<tr>
<td>LAW987</td>
<td>Special Topic in Law - A</td>
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<tr>
<td>LAW988</td>
<td>Special Topic in Law - B</td>
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<tr>
<td>LAW993</td>
<td>Research Essay</td>
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### MASTER OF LAWS (COURT MANAGEMENT) and MASTER OF COURT MANAGEMENT

<table>
<thead>
<tr>
<th>Subject</th>
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<tr>
<td>LAW801</td>
<td>Court Management I - Principles of Judicial Administration</td>
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<tr>
<td>LAW802</td>
<td>Court Management II - Processes of Dispute Resolution</td>
</tr>
<tr>
<td>LAW803</td>
<td>Court Management III - Case Management</td>
</tr>
<tr>
<td>LAW901</td>
<td>Research in Court Management</td>
</tr>
<tr>
<td>BUSS903</td>
<td>Business Data Processing Systems</td>
</tr>
<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
</tr>
<tr>
<td>ACCY850</td>
<td>Public Sector Financial Management and Controls</td>
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### MASTER OF LAWS (NATURAL RESOURCES LAW)* and MASTER OF NATURAL RESOURCES LAW*

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>LLB930</td>
<td>Research Project in Natural Resources Law</td>
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</tbody>
</table>

*Candidates must complete the requirements for the Graduate Diploma in Natural Resources Law as well as the above subject.

### GRADUATE DIPLOMA IN LAW

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>LAW810</td>
<td>Law in Society</td>
</tr>
<tr>
<td>LAW811</td>
<td>Law of Contracts</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>LAW801</td>
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<tr>
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<td>Court Management II - Processes of Dispute Resolution</td>
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<tr>
<td>LAW803</td>
<td>Court Management III - Case Management</td>
</tr>
<tr>
<td>LAW804</td>
<td>Court Management IV - Current Issues in Judicial Administration</td>
</tr>
</tbody>
</table>

Candidates will also complete BUSS903; MGMT911; ACCY850 - refer to the Faculty of Commerce section.

### GRADUATE DIPLOMA IN NATURAL RESOURCES LAW

**Compulsory subjects:**
- LLB910: Introduction to Law | 8
- LLB911: Introduction to Natural Resources Law | 8
- LLB913: Resources Decision Making | 8

**Options - at least 3 chosen from those offered which may include:**
- LLB914: Mining Law | 8
- LLB915: Commercial Aspects of Resources Development | 8
- LLB916: Energy Law I | 8
- LLB917: Energy Law II | 8
- LLB918: Law of Land & Nature Conservation | 8
- LLB919: Water Resources Law | 8
- LLB920: Local Government & Natural Resources | 8
- STS929*: Studies in Resources and Environmental Policy | 8

*STS929 is offered by the Department of Science and Technology Studies.

### GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT) and MASTER OF BUSINESS ADMINISTRATION

<table>
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<tr>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>LAW960</td>
<td>Legal Studies for Professionals</td>
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<tr>
<td>LAW961</td>
<td>Selected Legal Topics in Management</td>
</tr>
<tr>
<td>LAW969</td>
<td>Occupational Health and Safety Law</td>
</tr>
</tbody>
</table>
COURSE REQUIREMENTS

Session of Offer
Subjects for the Graduate Diplomas and Masters courses will be offered, subject to availability of staff, 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
5. HONOURS MASTER OF LAWS (NATURAL RESOURCES LAW)
6. HONOURS MASTER OF NATURAL RESOURCES LAW
7. HONOURS MASTER OF LAWS (COURT MANAGEMENT)
8. HONOURS MASTER OF COURT MANAGEMENT
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)
14. MASTER OF NATURAL RESOURCES LAW
15. GRADUATE DIPLOMA IN LAW (COURT POLICY AND ADMINISTRATION)
16. GRADUATE DIPLOMA IN LAW (NATURAL RESOURCES LAW)
17. GRADUATE DIPLOMA IN BUSINESS DATA PROCESSING SYSTEMS

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.

The course is designed for those working in court management, whether in a policy, administrative or judicial capacity. It is a part time course extending over 2 years and requiring 4 weeks residential attendance on the Wollongong Campus. Subjects in the course are from four disciplines - law, accountancy, business systems and management. The 7 law subjects, including 3 skills subjects, are described below. Refer to the relevant section of the Faculty of Commerce section for information on ACCY850 Public Sector Financial Management and Controls, BUSS903 Business Data Processing Systems and MGMT911 Organisational Behaviour.

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 three compulsory subjects (Introduction to Law; Introduction to Natural Resources Law;
Resources Decision-Making) and three subjects chosen from a range of options (offered on the basis of demand and teaching resources). One of the elective subjects (STS929 Studies in Resources and Environmental Policy) is taught by the Department of Science and Technology Studies. 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.

SUBJECT DESCRIPTIONS

LAW801 Court Management I - Principles of Judicial Administration Autumn session; 6 credit points.

Assessment: 3 take home assignments

Fundamental principles of judicial administration - the role of courts and their relationship with the legislative and executive arms of government. The subject will cover the following matters: the historical development of courts in England and Australia; the nature of the judicial function of government; the distinctions between courts and tribunals; the relationships between the Parliament, the Executive and the Judiciary; accountability for the judicial system in responsible government. Taught in lectures and workshops during residential in February and through supervised research and analytical reading throughout Autumn session.

LAW802 Court Management II - Processes of Dispute Resolution Spring session; 6 credit points.

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 those involving litigation and the delineation of effective dispute resolution procedures. Taught in lectures and workshops during residential in July and through supervised research and analytical reading between July and November.

LAW803 Court Management III - Case Management Autumn session; 6 credit points.

Assessment: 3 take home assignments

Examines principles and practical applications of case flow management in reducing delay and providing efficient management of courts. Considers methods of undertaking and evaluating case flow management programs. Taught in lectures and workshops during residential in February and through supervised research and analytical reading between March and June.

LAW804 Court Management IV - Current Issues in Judicial Administration Double (A) session; 12 credit points.

Assessment: Research Report

Research project undertaken throughout the year (March-November) to produce a report of 10,000 words on original research into aspects of judicial administration in a court or tribunal system with which the student is familiar. Topics might include: evaluations, needs analysis, feasibility studies on comparisons in areas such as case flow management, 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 selected by the Faculty as suitably qualified to direct the research.

Research Techniques and Critical Analysis

Autumn session.

Preparation for LAW 801, LAW 802 and LAW 803. Reading and analysis exercises to assist understanding of legal materials used in other law subjects.

Research Methods

Spring and Autumn sessions.

Introduction to social research and evaluation techniques as preparation and support for the LAW804 project.

LAW810 Law in Society Autumn session; 8 credit points.

Pre-requisite: none.

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; and introduction to the sources of authority of legal rules, the nature of legal institutions and practices, legal materials, reasoning and terminology. Aspects of substantive law will be used to illustrate general principles.

LAW811 Law of Contracts Spring session; 8 credit points.

Pre-requisite: LAW810 or LAW160 or LAW100.

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 of terms and conditions; performance and breach; capacity to make contracts.

LAW812 Law of Evidence Autumn, Spring or Double (A) session; 12 credit points.

Pre-requisite: LAW100 or LAW160 or LAW810 and LAW210 or LAW161 or LAW811 if specializing in Commercial Law.

Assessment: 8,000 word dissertation.

The student shall propose a research project for approval by the Dean.

LAW813 Law of Remedies Autumn or Spring session; 8 credit points.

Pre-requisite: LAW100 or LAW160 or LAW810 and LAW210 or LAW161 or LAW811 if specializing in Commercial Law.

Assessment: 10,000 word dissertation.

The student shall propose a research project for approval by the Dean.

LAW901 Research in Court Management Double session; 36 credit points.

Pre-requisite: LAW801 and LAW802.

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 or Summer session; 6 credit points.

Pre-requisite: LAW100 or LAW160 or LAW810 and LAW210 or LAW161 or LAW811 if specializing in Commercial Law.

Assessment: 8,000 word dissertation.

The student shall propose a research project for approval by the Dean.

LAW903 Research Project B Autumn, Spring or Double (A) session; 12 credit points.

Pre-requisite: LAW100 or LAW160 or LAW810 and LAW210 or LAW161 or LAW811 if specializing in Commercial Law.

Assessment: 12,000 word dissertation.

The student shall propose a research project for approval by the Dean.

LAW904 Research Project C Autumn or Spring session; 8 credit points.

Pre-requisite: LAW100 or LAW160 or LAW810 and LAW210 or LAW161 or LAW811 if specializing in Commercial Law.

Assessment: 10,000 word dissertation.

The student shall propose a research project for approval by the Dean.

LAW905 Research Project D Autumn, Spring or Double (A) session; 8 credit points.

Pre-requisite: LAW100 or LAW160 or LAW810 and LAW210 or LAW161 or LAW811 if specializing in Commercial Law.

Assessment: 10,000 word dissertation.

The student shall propose a research project for approval by the Dean.

LAW951 Taxation Policy and Practice Session: to be advised; 6 credit points.

Remark: Not to count with LAWS52.

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 credit points.

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 and estate planning concepts. Tax avoidance and evasion. Tax incidence and equity. An examination of tax policies, provisions and problems relating to special entities - and special provision areas, such as primary producers, mining and petroleum industries, non-residence, foreign-controlled companies and royalty provisions. International aspects of Australian income tax including double tax agreements.
LAW960 Legal Studies for Professionals
Spring session; 6 credit points.
Assessment: Assignments, examination.
This subject is offered in a series of modules. The first module, lasting for approximately 6 weeks, and completed by all students, introduces the constitutional structure of the Australian federal system, sources of law, the common law system, the hierarchy of the courts, the doctrine of precedent, how to understand case reports, statutory interpretation and how to understand an act of parliament. Other modules have been designed for students enrolled in various postgraduate courses. The Public Health module includes an introduction to the law relating to the regulation of Australian health care, criminal and civil issues in the provision of health care, mental health law, employment and occupational health and safety obligations of health care institutions. Other modules may be added to cater for the needs of particular courses.

LAW961 Selected Legal Topics in Management
Session: to be advised; 6 credit points.
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 credit points.
A study of theories on the nature and purpose of law.

LAW964 Studies in Business Law
Session: to be advised; 6 credit points.
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 credit points.
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 credit points.
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 credit points.
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
Spring session; 6 credit points.
Pre-requisite: LAW160 or LAW100.
A critical examination of a selection of the following topics: (i) The nature and purpose of law; (ii) The logic of legal reasoning; law and textual analysis; legal causation, probability, evidence and standards of proof; (iii) The defeasibility of practical reason, causal explanations and reasons explanations; action, intention and will; agency, control and responsibility; the nature of justification and excuse; (iv) The justification of punishment; the moral limits of the criminal law; conscience and the law; morality and defences to murder; contemporary moral issues of legal interest (eg informed consent, reproduction technology, euthanasia); concepts of property. Issues selected will be discussed in the context of particular areas of law. The emphasis will be on philosophical issues in Criminal Law.

LAW969 Occupational Health and Safety Law
Session: to be advised; 6 credit points.
The subject deals with the interpretation and application of the NSW OHHS Act.

LAW987 Special Topic in Law - A
Session: to be advised; 6 credit points.

LAW988 Special Topic in Law - B
Session: to be advised; 6 credit points.
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 credit points.
Information may be obtained from the Sub-Dean regarding the research essay.

LAW998 Major Thesis
Double session (A); 48 credit points (contact as required).
Pre-requisite: permission of the Dean.
Assessment: thesis. Content as arranged.

LAW999 Special Research Paper in Law
Double session (A); 48 credit points (contact as required).
Pre-requisite: Permission of the Dean.
Assessment: research essay. Content as arranged.

LLB910 Introduction to Law
Spring session; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.

Assessment: a selection from assignments, class participation, examination and research essay. 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.

Textbooks: Specially prepared course materials.

LLB911 Introduction to Natural Resources Law
Spring session; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.

Co-requisite: LLB910.
Assessment: a selection from assignments, class participation, examination and research essay. 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.

Textbooks: Specially prepared course materials.

LLB913 Resources Decision-Making
Autumn session or Double (A) session; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.

Co-requisite: LLB910 and LLB911.
Assessment: a selection from assignments, class participation, examination and research essay. 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.

Textbooks: Specially prepared course materials.

LLB914 Mining Law
Spring session according to demand; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.

Pre-requisite: LLB910 and LLB911.
Assessment: a selection from assignments, class participation, examination and research essay. 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.

Textbooks: Specially prepared course materials.

LLB915 Commercial Aspects of Resources Development
Spring session according to demand; 8 credit points.
This subject is offered on a mixed mode basis
with a one week residential face to face teaching component.
Pre-requisite: LLB910 and LLB911.
Assessment: a selection from assignments, class participation, examination and research essay.
Legal structures for resources projects (joint ventures, etc); financing resources projects (including investment regulation; taxation and stamp duty); legal aspects of resource marketing.
Textbooks:
Specially prepared course materials.

LLB916 Energy Law I
Spring session according to demand; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.
Pre-requisite: LLB910 and LLB911.
Assessment: a selection from assignments, class participation, examination and research essay.
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.
Textbooks:
Specially prepared course materials.

LLB917 Energy Law II
Spring session according to demand; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.
Pre-requisite: LLB910 and LLB911.
Assessment: a selection from assignments, class participation, examination and research essay.
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.
Textbooks:
Specially prepared course materials.

LLB918 Law of Land and Nature Conservation
Spring session according to demand; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.
Pre-requisite: LLB910 and LLB911.
Assessment: a selection from assignments, class participation, examination and research essay.
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.
Textbooks:
Specially prepared course materials.

LLB919 Water Resources Law
Spring session according to demand; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.
Pre-requisite: LLB910 and LLB911.
Assessment: a selection from assignments, class participation, examination and research essay.
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 watercourses, catchment management and the control of diffuse pollution. The law relating to marine living resources, including international aspects, the Commonwealth/State division of powers, marine reserves and the regulation of commercial exploitation.
Textbooks:
Specially prepared course materials.

LLB920 Local Government and Natural Resources
Autumn session according to demand; 8 credit points.
This subject is offered on a mixed mode basis with a one week residential face to face teaching component.
Pre-requisite: LLB910 and LLB911.
Assessment: a selection from assignments, class participation, examination and research essay.
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.
Textbooks:
Specially prepared course materials.

LLB930 Research Project in Natural Resources Law
Summer, Autumn or Spring session; 24 credit points (contact as required).
Pre-requisite: 24 credit points at 900 level.
Assessment: research essay.
Content as arranged.
FACULTY OF SCIENCE
FACULTY OF SCIENCE

FACULTY OFFICE
Dean: Professor Robert K Norris, BSc, PhD Syd
Sub Dean: Associate Professor Adrian Hutton
Faculty Executive Officer: Ms Pat Macquarie (042) 21 3481
Administrative Assistant: Ms Christine M Peacock (042) 21 3530

MEMBER UNITS
The Faculty of Science is made up of the following Units:

Department of Biological Sciences
Department of Chemistry
School of Geosciences comprising Geography and Geology
Department of Physics
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
Postgraduate coursework programs are available in the Faculty in the following areas:

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<td>Fuels - Sedimentology</td>
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<td>Hard Rock Geology</td>
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<td>Human Geography and Environments</td>
<td>324</td>
</tr>
<tr>
<td>Physical Geography and Environments</td>
<td>324</td>
</tr>
</tbody>
</table>
Research Associate
Wen Xu, MSc Academic Sinica (China), PhD Antwerp

Honorary Professor
Barry J Allen, PhD DSc Melb

Honorary Fellows
Vivien Fernandes, MB BS Syd FRACS
Lee Floro, MPh, (DipMedRad) ARMIT
Peter E Metcalfe, MSc PhD Waikato
David Warner, MBA, MB, ChB, DDU, FRACR, MRACMA

Administrative Assistant
Julie Gilbert

FACULTY VISITING COMMITTEE

Professor Neil S Willetts, (Chairperson)
Director of Research & Development,
Biotech Australia (Visiting Professor in Biological Sciences, Sydney University)

Dr Stephen Anderson, Managing Director,
Southern Pathology

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

Dr Ann Hamblin, Director, Cooperative Research Centre for Soil and Land Management, SA

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
**BIOLOGICAL SCIENCES**

**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
- Metabolic physiology and thermoregulation
- 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
- Bioluminescence: applications to enzyme mechanisms and analysis

**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 intracellular processes
- 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 recolonization of disturbed land
- Seed and fruit dispersal by animals
- Avian ecology
- Invertebrate 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
- Larval ecology: pelagic and early benthic stages as determinants of subsequent patterns of invertebrate distribution and abundance
SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAMS IN BIOTECHNOLOGY
leading to the Master of Science and the Honours Master of Science.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>BIOL320</td>
<td>Molecular Cell Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL321</td>
<td>Cellular and Molecular Immunology</td>
<td>8</td>
</tr>
<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>STAT252</td>
<td>Statistics for the Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td>BIOL303</td>
<td>Biotechnology: Applied Molecular and Cell Biology</td>
<td>8</td>
</tr>
<tr>
<td>MGMT308</td>
<td>Introduction to Management for Professionals A</td>
<td>6</td>
</tr>
</tbody>
</table>

(ii) Master of Science (Biotechnology)

**Autumn Session**
- BIOL920: Biotechnology - Cells, Proteins and Antibodies | 12
- BIOL921: Biotechnology - Nucleic Acids | 12

**Spring Session**
- BIOL910: Advanced Topics in Biology A: Literature Research Project | 16
- BIOL918: Diagnostic Biotechnology | 8

(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, Dr M Walker.

*Other appropriate subjects from the graduate or 300-level schedule may be taken with the permission of the Departmental Head.

OTHER POSTGRADUATE SUBJECTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL910</td>
<td>Advanced Topics in Biology A</td>
<td>16</td>
</tr>
<tr>
<td>BIOL911</td>
<td>Advanced Topics in Biology B</td>
<td>16</td>
</tr>
<tr>
<td>BIOL999</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

**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 Head of the Department of Biological Sciences.

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 Departmental Head. 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 Bachelors 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, Dr Mark Walker.

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 Bachelors 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 Departmental Head. Approved subjects which lead to the Master of Science (Biotechnology) course are listed below.

**SUBJECT DESCRIPTIONS**

BIOL910 Advanced Topics in Biology A: Literature Research Project

*Autumn and/or Spring session: 16 credit points (directed reading and analysis of published papers). Assessment: substantial literature review report*
and seminar.
Under the supervision of staff nominated by the Head of Department, the student will survey the biological literature and present a written report and a seminar on a topic chosen by the supervising staff.
Co-ordinator: Associate Professor R M Lilley.

BIOL911 Advanced Topics in Biology B: Laboratory Research Project
Autumn and/or Spring session; 16 credit points (directed reading and field or laboratory experimental work).
Assessment: substantial project report and seminar.
Under the supervision of staff nominated by the Department Head 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.
Co-ordinator: Dr M R Wilson.

BIOL916 Plant and Agricultural Biotechnology
Spring session; 6 credit points (20 hrs of lectures and tutorials plus practical work).
Pre-requisite: BIOL920, 921.
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. Genetic engineering of plants. Algal culture and algal manipulation. 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.
Textbook: Journal Articles.
Co-ordinator: Dr M R Wilson.

BIOL917 Aquatic and Environmental Biotechnology
Spring session; 6 credit points (20 hrs of lectures and tutorials plus practical work).
Pre-requisite: BIOL920, 921.
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.
Textbook: Journal Articles.
Co-ordinator: Dr M R Wilson.

BIOL918 Diagnostic Biotechnology
Spring session; 8 credit points (24 hrs of lectures and tutorials plus practical work).
Pre-requisites: BIOL920, 921.
Assessment: seminars, project, examination.
Production of diagnostic probes based on DNA and antibody technology for the diagnosis of diseases of humans, plants and animals, including diseases in aquaculture systems. Utilisation of such probes to detect specific pathogens in tissue samples and environmental samples, including soil, water and effluents. Collection and preservation of samples. DNA restriction analysis, oligonucleotide mapping and specific antigen detection in identifying micro-organisms. Basic epidemiology. ELISA and immuno-diagnosis. 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.
Textbook: Journal Articles.
Co-ordinator: Dr M R Wilson.

BIOL920: Biotechnology: Cells, Proteins and Antibodies
Autumn session; 12 credit points (42 hrs lecture/tutorials plus practical work).
Pre-requisites: appropriate experience, or BIOL 320 and BIOL321.
Assessment: major essay, quiz, tutorial papers, poster, seminar, written examination.
Co-ordinator: Dr M R Wilson.

BIOL921: Biotechnology: Nucleic Acids
Autumn session; 12 credit points (42 hr lecture/tutorials plus practical work).
Pre-requisites: appropriate experience, or BIOL 320 and BIOL321.
Assessment: major essay, quiz, tutorial paper report, poster, seminar, written examination.
Co-ordinator: Dr M R Wilson.

BIOL991 Biotechnology Research Project
Autumn, Spring and Summer sessions; 24 credit points.
Pre-requisite: BIOL920, 921.
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.
Co-ordinator: Dr M R Wilson.

BIOL999 Major Thesis
48 credit points per year.
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.
CHEMISTRY

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

Chemistry

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 and investigations of the mechanism of toxic action
- Geochemical transport of metals, including uranium and thorium
- Electroanalytical chemistry, especially the development of chemically modified electrodes and electrochemical detectors for liquid chromatography
- Application of electrochemically-produced polymers in corrosion protection, biotechnology, catalysis, and as analytical sensors
- Development of microcomputer controlled on-site analysis systems
- Transport and equilibrium properties of liquids and solutions
- 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
- Activation of CO and hydrocarbons by metal coordination - synthesis and mechanistic aspects
- Reactions of metal carbonyl clusters and their relation to catalytic processes
- Co-ordination chemistry of ruthenium
- Asymmetric synthesis using organometallic complexes
- Metal-protein and metal-DNA interactions, and model studies
- New methods for organic synthesis and asymmetric synthesis
- Organic synthesis of natural products and their biological chemistry
- 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 man
- Novel methods for peptide synthesis and modification using organometallic reagents
- 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
- Design, synthesis and evaluation of DNA-interactive anti-tumour agents

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN CHEMISTRY

leading to the Master of Science.

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</thead>
<tbody>
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<tr>
<td>CHEM915</td>
<td>Advanced Chemistry Laboratory Project</td>
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</tr>
<tr>
<td>CHEM918</td>
<td>Chemistry Report</td>
<td>16</td>
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</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>
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</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>
<tr>
<td>CHEM314</td>
<td>Instrumental Analysis</td>
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<tr>
<td>CHEM320</td>
<td>Biological Chemistry</td>
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</tr>
<tr>
<td>CHEM321</td>
<td>Organic Chemistry III</td>
<td>8</td>
</tr>
<tr>
<td>CHEM323</td>
<td>Physical Chemistry III</td>
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</tr>
<tr>
<td>CHEM327</td>
<td>Environmental Chemistry and Chemical Toxicology</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>
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<td>CHEM911</td>
<td>Selected Topics in Chemistry</td>
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<tr>
<td>CHEM918</td>
<td>Chemistry Report</td>
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</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.

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 (CHEM920) plus the three following 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 session (A); 16 credit points (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, to broaden their general chemical knowledge. This will be carried out via directed reading and individual tutorials and assessed by written work.

Textbooks:
A reading list will be provided at the beginning of the session.

CheM911 Selected Topics in Chemistry

Autumn or Spring session; 8 credit points (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 Organometallic Compounds; Physical Mass Spectrometry; Analysis of Atmospheric Particles; Computers in Chemistry; Gas Lasers; Advanced NMR Techniques; and other topics added as required.

Textbooks:
A reading list will be provided at the beginning of the session.

Co-ordinator: Professor J Bremner.

CHEM915 Advanced Chemistry Laboratory Project

Autumn and/or Spring session; 16 credit points (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.

Co-ordinator: Professor J Bremner.

CHEM918 Chemistry Report

Double session (A); 16 credit points (112 hrs tutorials).

Assessment: substantial report 90% and seminar 10%.

Students will consult with the supervising staff.

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.

Co-ordinator: Professor J Bremner.

CHEM920 Chemistry Research Project

48 credit points per year.

Assessment: major thesis.

Topic to be arranged in consultation with the Departmental Head and approved by the Board of Research and Postgraduate Studies.

Co-ordinator: Professor J Bremner.
ENVIRONMENTAL SCIENCE

COURSES OFFERED

The following postgraduate degrees are available:

1. Doctor of Philosophy
2. Honours Master of Environmental Science by Research and Coursework

POSTGRADUATE PROGRAM

Environmental Science

CURRENT RESEARCH AREAS

The following areas of research are available to candidates:

- 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 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.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV1930</td>
<td>Thesis</td>
<td>24</td>
</tr>
<tr>
<td>ENV1920</td>
<td>The Scientific Basis of Environmental Management</td>
<td>8</td>
</tr>
<tr>
<td>ENV1921</td>
<td>Environmental Planning</td>
<td>8</td>
</tr>
<tr>
<td>STS929</td>
<td>Studies in Resource and Environmental Policy</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Additional subjects for Category (b) candidates only:</td>
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<tr>
<td></td>
<td>At least 24 credit points of</td>
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<tr>
<td></td>
<td>MGMT310 Introduction to Management for Professionals B</td>
<td>8</td>
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<td></td>
<td>LAW380 Law for Environmental Managers</td>
<td>8</td>
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<td></td>
<td>ENV1385 Environmental Engineering</td>
<td>8</td>
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<td>STS300 The Environmental Context</td>
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<td></td>
<td>Plus Two of</td>
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<td></td>
<td>ENV1910 Directed Studies in Pollution Chemistry</td>
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<td></td>
<td>ENV1911 Directed Studies in Ecology</td>
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<td>ENV1912 Directed Studies in Land Resources</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>ENV1913 Directed Studies in Earth Sciences</td>
<td>12</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

COURSE REQUIREMENTS

1. DOCTOR OF PHILOSOPHY

This course 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 ENV1999.

2. HONOURS MASTER OF ENVIRONMENTAL SCIENCE

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...
Candidiates 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.

Candiates 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.

This course structure facilitates the tailoring of coursework to suit the individual requirements of candidates with differing undergraduate qualifications and employment experience.

**Entry Requirements**
Admission is granted with the approval of the Dean of the Faculty of Science to candiates who would normally be required to have completed an undergraduate degree in Science or Engineering, or equivalent tertiary qualifications and/or professional experience.

**SUBJECT DESCRIPTIONS**

**ENVI910 Directed Studies in Pollution Chemistry**
**Spring session; 12 credit points (112 hrs comprising 56 hrs lectures/tutorials, 28 hrs practical, 28 hrs case study).**
**Pre-requisite: 100-level Chemistry and CHEM214 or equivalent.** (The subject incorporates CHEM327, which is taken concurrently.)
Assessment: final examination, practicals, essay/case study report, seminar.
The chemistry of water and air pollution. Techniques in the environment. Sources, sinks, and transport processes, methods for quantitative measurement and control.
**Co-ordinator:** Associate Professor J Ellis.

**ENVI911 Directed Studies in Ecology**
**Autumn or Double (A) session; 12 credit points (106 hrs comprising 28 hrs lectures, 28 hrs tutorials, and 2 major case-study projects).**
Assessment: tutorial assignments, seminars, final examination, major case study report (can be done in either session).
Management and conservation biology.
**Co-ordinator:** Professor RJ Whelan.

**ENVI912 Directed Studies in Land Resources**
**Double session (A); 12 credit points (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 focusing on human induced changes to these natural systems. Emphasis will be given to geomorphological processes, remote sensing of land and biological resources.
**Co-ordinator:** Associate Professor G Nanson.

**ENVI913 Directed Studies in Earth Sciences**
**Double session (A); 12 credit points (up to 42 hrs lectures, seminars, up to 4 days field work, at least 40 hrs case study project).**
Assessment: 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. One major project.
**Co-ordinator:** Dr BE Chenhall.

**ENVI920 The Scientific Basis of Environmental Management**
**Spring session; 8 credit points (28 hrs lectures, 28 hrs seminars, up to four days fieldwork).**
Assessment: final examination, 2 essays, 1 research report.
This course covers topics designed to give students a comprehensive overview of the scientific basis of environmental management. The course will adopt a multidisciplinary approach to the scientific understanding of how major ecosystems work and show how an appreciation of such knowledge leads to the development of appropriate management strategies for these systems. While there will be some emphasis on the Australian situation, much of the material is applicable in any country. The systems to be covered include estuaries, reefs, coastal wetlands, forests (tropical and temperate), large and small catchment areas, semi-arid areas. In addition the science of the management of hazardous wastes (including radioactive materials) will be discussed. Case studies from Australia, South East Asia and the Pacific Islands will be included. As part of the course, students will complete a project carried out in teams to facilitate the development of interdisciplinary skills and an appreciation of the benefits of teamwork in addressing environmental management issues.
**Co-ordinator:** Dr R West

**ENVI921 Environmental Planning**
**Autumn session; 8 credit points (28 hrs lectures, 28 hrs seminar, up to four days field work).**
Assessment: final examination, 2 essays, 1 research report.
This course presents material necessary for a comprehensive overview of the status and development of environmental planning in government and industry. In the course students will be introduced to the principles of environmental planning. This will be followed by presentations from staff from a wide range of organisations involved in environmental planning such that 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 will be included, in addition to aspects of the global situation regarding environmental planning.
**Co-ordinator:** Professor J Morrison.

**ST929 Resource and Environmental Policy**
**Autumn session; 8 credit points (4 hrs lectures/seminars to 4 hrs).**
Assessment: 1 major research essay of 4000 words, 1 minor essay of 1500 words, seminar performance, plus class exercises.
This subject will provide advanced study of the social, economic and political processes through which environmental policy is negotiated and instituted. The subject will be thematic, choosing one or more particular areas of technological development and its environmental impact as a case study. (The areas will be chosen in any given year on the basis of their contemporary relevance.) Theoretical perspectives which will be developed in this context 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. Students will be expected to read extensively and critically, to engage in coherent and documented argumentation and to approach the problems considered by utilising insights from a number of different theoretical perspectives.

**Textbooks:** The study program will rely on extensive library study in journals and books, supplemented by case study material assembled for the subject.
**Co-ordinator:** Professor J Falk.

**ENVI930 Thesis**
**Double session (A); 24 credit points.**
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.
**Co-ordinator:** Professor J Morrison.

**ENVI999 Major Thesis**
**48 credit points per year.**
Assessment: major thesis.
The major thesis takes the form of a supervised research project on a topic approved by the Professor of Environmental Science and the Graduate Faculty.
**Co-ordinator:** Professor J Morrison.
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>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO935</td>
<td>Research Report</td>
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</tr>
<tr>
<td>GEO941</td>
<td>Coastal Environments</td>
<td>8</td>
</tr>
<tr>
<td>GEO942</td>
<td>Geomorphology of Rivers</td>
<td>8</td>
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<tr>
<td>GEO943</td>
<td>Biogeography</td>
<td>8</td>
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<tr>
<td>GEO945</td>
<td>Remote Sensing</td>
<td>8</td>
</tr>
<tr>
<td>GEO948</td>
<td>Quaternary Studies</td>
<td>8</td>
</tr>
<tr>
<td>GEO949</td>
<td>Landscapes and Soils</td>
<td>8</td>
</tr>
<tr>
<td>GEO952</td>
<td>Natural Hazards</td>
<td>8</td>
</tr>
</tbody>
</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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>GEO935</td>
<td>Research Report</td>
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<tr>
<td>GEO946</td>
<td>Geographical Information Systems</td>
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</tr>
<tr>
<td>GEO947</td>
<td>Australian Prehistory</td>
<td>8</td>
</tr>
<tr>
<td>GEO951</td>
<td>Environmental Policy and Management</td>
<td>8</td>
</tr>
<tr>
<td>GEO962</td>
<td>Global Economic and Social Change</td>
<td>8</td>
</tr>
<tr>
<td>GEO963</td>
<td>Population Dynamics, Analysis and Policy</td>
<td>8</td>
</tr>
<tr>
<td>GEO964</td>
<td>Food and Development Studies</td>
<td>8</td>
</tr>
<tr>
<td>GEO965</td>
<td>Asian Development</td>
<td>8</td>
</tr>
</tbody>
</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 GEO9999.

2. HONOURS MASTER OF SCIENCE

3. HONOURS MASTER OF ARTS

4. MASTER OF SCIENCE

5. 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 Geoscience.

All subjects are worth 8 credit points and will involve 6 contact hours per week.

6. 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 subjects are approved by 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
Where co-ordinators are not specified, details will be made available at a later date.

GEOS935 Research Report
Autumn or Spring session; 8 credit points (2 hrs workshop per wk).
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.
Co-ordinator: Head of the School of Geoscience.

GEOS941 Coastal Environments
Autumn or Spring session; 8 credit points (3hrs lecture/seminar; 3hrs practical/tutorial per wk; 2-3 days fieldwork).
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.
This subject examines the role of coastal landforms, particularly estuaries, dunes, creek systems and beaches, and the effect of human interference. The subject examines sedimentary and geomorphological processes in relation to the Earth's surface.

GEOS942 Geomorphology of Rivers
Autumn or Spring session; 8 credit points; (3hrs lecture/seminar; 3hrs practical/tutorial per week; 2-3 days fieldwork).
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.
Rivers play a dynamic and vital role both in shaping the Earth's landforms and affecting the human uses of the Earth's surface. This subject examines processes forming and modifying stream channels and drainage basins. Rivers are studied as natural systems within which variables are adjusted to each other, to natural external variables, and to human interference. Specific topics include flood hydrology, riverloodplains; channel geometry, river platforms, channel erosion, sediment transport, sediment deposition and Quaternary history. Particular attention is given to human modification and management of rivers, with concentration on local urban and rural streams. Techniques include field measurements, sediment analysis and aerial-photograph interpretation.
Co-ordinator: Associate Professor G Nanson.

GEOS943 Biogeography
Autumn or Spring session; 8 credit points (3hrs lecture/seminar; 3hrs practical/tutorial per wk; 2-3 days fieldwork).
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.
Biogeography is the study of the
distributions of plants and animals, and their interaction both with each other and with the physical environment. The response of plant communities to past glacial events, continental drift and secondly on the transformation of relationships among these phenomena arising both from natural causes and from societies' impact on their environments. Topics include: problems in interpreting the denudation of highlands; survival of ancient landscapes; development of depositional landscapes; variations among landforms-vegetation-landscape relationships; the transformation of soil-vegetation-landform assemblages over the last 40,000 years; a critical review of scientific perception of landscape. Relevant case studies will be drawn mainly from Australia, North America and Eurasia. Practical classes will focus on photographic, cartographic and field techniques of soil surveying, and on the microscopic study of soils and weathering profiles.

GEOS951 Environmental Policy and Management
Autumn or Spring session; 8 credit points; (3hrs lecture/seminar; 3hrs practical/tutorial; 2-3 days fieldwork).
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.

This subject examines the political, institutional, economic and geographic factors which influence environmental management. It presents an analysis of these processes, and examines issues from the perspective of an environmental manager. Particular attention is given to the link between understanding environmental decisionmaking, assessment and evaluation. Emphasis is placed on the influence of political philosophies and social value systems, including those of indigenous peoples, on environmental management. Illustrations are drawn from a wide range of environmental issues, mainly from Australia, and commonly from the interface of human and physical geography.

Co-ordinator: Dr J Formby.

GEOS952 Natural Hazards
Autumn or Spring session; 8 credit points; (3hrs lecture/seminar; 3hrs practical/tutorial; 1-2 days fieldwork).
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 bringing 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.
GEOS962 Global Economic and Social Change
Autumn or Spring session; 8 credit points,
(3hrs lecture/seminar; 3hrs practical/tutorial per wk; 2-3 days fieldwork).
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.
This subject studies the impact of the processes 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 is structured in 3 interrelated components focussing on: the geography of international trade, the internationalisation of labour and services, and urban transformations. An understanding of the geography of international trade is achieved. The second component will focus on international transfers of labour and services, a major mechanism in the internationalisation of the global economy. The final component deals with economic change as it is reflected in the built and social morphology of the city.
Co-ordinator: Dr G Waitt.

GEOS963 Population Dynamics, Analysis and Policy
Autumn or Spring session; 8 credit points,
(3hrs lecture/seminar; 3hrs practical/tutorial per wk)
Assessment: as appropriate from class tests, essays, research project, practical work, final examination.
In all societies questions relating to population size, growth rates, composition, distribution and redistribution are important. This subject attempts to provide a basis for understanding such problems by examining, in their 'developed' and 'less developed' socio-cultural contexts, the processes which contribute to demographic change and compositional variation (fertility, mortality, migration). Attention will also be paid to population-regulating policies and programs, to data sources in population studies and to some of the more important techniques used in demographic analysis. Students will receive instruction on statistical and other analytical methods for analysing population dynamics.

GEOS964 Food and Development Studies
Autumn or Spring session; 8 credit points,
(3hrs lecture/seminar; 3hrs practical/tutorial per wk).
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 aims to introduce 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 through the use of major theories of underdevelopment. Proposals for the alleviation of global hunger are canvassed.

GEOS965 Aslan Development
Autumn or Spring session; 8 credit points,
(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.
Co-ordinator: Dr G Waitt.

GEOS944 Major Thesis
48 credit points.
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 credit points 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
Resources - 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, laboratory rock physics including velocity and attenuation in reservoir rocks and coal measures. 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 volcanogenic sequences, mineralogy;

**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;

**Palaeontology 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 shale;

**Sedimentology**
The sedimentology of clastic 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 Resources - Hard Rock Geology

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>Odd Years</td>
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<td></td>
</tr>
<tr>
<td>GEO901</td>
<td>Isotope Geochemistry</td>
<td>8</td>
</tr>
<tr>
<td>GEO904</td>
<td>Ore Genesis</td>
<td>8</td>
</tr>
<tr>
<td>GEO909</td>
<td>Applied Geophysics</td>
<td>8</td>
</tr>
<tr>
<td>GEO918</td>
<td>Analytical Methods in Geology</td>
<td>8</td>
</tr>
<tr>
<td>GEO922</td>
<td>Tectonics</td>
<td>8</td>
</tr>
<tr>
<td>Even Years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEO906</td>
<td>Metamorphism</td>
<td>8</td>
</tr>
<tr>
<td>GEO907</td>
<td>Seismic Exploration</td>
<td>8</td>
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<tr>
<td>GEO914</td>
<td>Volcanology</td>
<td>8</td>
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<tr>
<td>GEO918</td>
<td>Analytical Methods in Geology</td>
<td>8</td>
</tr>
<tr>
<td>GEO923</td>
<td>Structural Geology</td>
<td>8</td>
</tr>
<tr>
<td>GEO913</td>
<td>Advanced Topics in Geosciences D</td>
<td>8</td>
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</tbody>
</table>

For further details, see Course Requirements below.

### Postgraduate Program in Fuels - Sedimentology

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tr>
<td>Odd Years</td>
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<tr>
<td>GEO901</td>
<td>Isotope Geochemistry</td>
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<tr>
<td>GEO902</td>
<td>Diagenesis</td>
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<td>GEO916</td>
<td>Organic Geochemistry</td>
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<tr>
<td>GEO909</td>
<td>Applied Geophysics</td>
<td>8</td>
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<td>GEO918</td>
<td>Analytical Methods in Geology</td>
<td>8</td>
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<tr>
<td>GEO919</td>
<td>Basin Setting and Analysis</td>
<td>8</td>
</tr>
<tr>
<td>GEO921</td>
<td>Environmental Geology</td>
<td>8</td>
</tr>
<tr>
<td>GEO922</td>
<td>Tectonics</td>
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<tr>
<td>Even Years</td>
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<tr>
<td>GEO903</td>
<td>Biostratigraphy</td>
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<td>GEO907</td>
<td>Seismic Exploration</td>
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<tr>
<td>GEO917</td>
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<td>GEO920</td>
<td>Organic Petrology</td>
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</tr>
<tr>
<td>GEO923</td>
<td>Structural Geology</td>
<td>8</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.

Note: Advanced Topics in Geosciences (GEO910-913) 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

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tr>
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</tr>
<tr>
<td>GEO302</td>
<td>Basin analysis and groundwater</td>
<td>8</td>
</tr>
<tr>
<td>GEO303</td>
<td>Lithospheric processes and products</td>
<td>8</td>
</tr>
<tr>
<td>GEO304</td>
<td>Dynamic Earth</td>
<td>8</td>
</tr>
<tr>
<td>GEO305</td>
<td>Basin resources</td>
<td>8</td>
</tr>
<tr>
<td>GEO306</td>
<td>Mineral exploration</td>
<td>8</td>
</tr>
</tbody>
</table>

### Course Requirements

1. **Doctor of Philosophy**
   
   Candidates for this degree enrol in GEO9999.

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.
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.

Subjects 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 inservice 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 from the University of Wollongong or an approved degree from another tertiary institution; 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

Where subject co-ordinators are not specified, details will be made available at a later date.

GEOS001 Isotope Geochemistry

Autumn session; 8 credit points (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.

Reference:
Co-ordinator: Dr PF Carr.

GEOS902 Diagenesis

Spring session; 8 credit points (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 evolution of diagenetic processes, diagenetic alteration of selected rocks, and processes controlling 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.

Reference:
Co-ordinator: Associate Professor BG Jones.

GEOS903 Biostratigraphy

Autumn session; 8 credit points (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 principles of and developments in biostratigraphy; zonation, assemblages, correlation; biogeography; importance of various fossil groups; Australian and other case histories in biostratigraphy. Field work will include study and analysis of biostratigraphic aspects of a basin sequence.
Co-ordinator: Associate Professor AJ Wright.

GEOS904 Ore Genesis

Spring session; 8 credit points (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 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.
Co-ordinator: Associate Professor AC Hutton.

GEOS906 Metamorphism

Spring session; 8 credit points (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 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.
Co-ordinator: Dr BE Chennhall.

GEOS907 Seismic Exploration

Spring session; 8 credit points (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 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.
Co-ordinator: Dr LEA Jones.

GEOS909 Applied Geophysics

Spring session; 8 credit points (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 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.
Co-ordinator: Dr LEA Jones.

GEOS910 Advanced Topics in Geosciences A

Double session (A); 16 credit points.
Assessment: as appropriate from essays, reports, seminars, final examination.

GEOS911 Advanced Topics in Geosciences B

Double session (A); 16 credit points.
Assessment: as appropriate from essays, reports, seminars, final examination.

GEOS912 Advanced Topics in Geosciences C

Autumn or Spring session; 8 credit points.
Assessment: as appropriate from essays, reports, seminars, final examination.

GEOS913 Advanced Topics in Geosciences D

Autumn or Spring session; 8 credit points.
Assessment: as appropriate from essays, reports, seminars, final examination.

GEOS914 Volcanology

Autumn session; 8 credit points (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 physical aspects of volcanology of both modern and ancient volcanic deposits; tectonic setting of volcanoes and the physical properties of magmatic rocks; effects on volcanic processes and deposits.
Co-ordinator: Dr PF Carr.

GEOS916 Organic Geochemistry

Autumn session; 8 credit points (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 principles of and developments in the interpretation of organic geochemical data. Laboratory work includes interpretation of synthetic and real data; field work includes use of equipment, data collection and interpretation.
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 shales and source rocks; source rock and maturation concepts in petroleum geology; reflectance profiles, geothermal gradients and burial history; thermal modelling.
Co-ordinator: Associate Professor AC Hutton.

GEOS917 Petroleum Geology
Spring session: 8 credit points (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 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, entrapment and drainage; and extraction methods, well testing, reservoir and reserve evaluation; Australian and international petroleum reserves. Laboratory work: evaluation of petroleum reservoirs based on theoretical and real examples.
Reference:
North, F K, Petroleum Geology, Allen & Unwin, Boston, 1985
Co-ordinator: Associate Professor B G Jones.

GEOS918 Analytical Methods in Geology
Autumn session: 8 credit points (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.
Reference:
Co-ordinator: Dr BE Chenhall.

GEOS919 Basin Setting and Analysis
Spring session: 8 credit points (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 palaeocurrent analysis, sedimentary facies relationships within the basin fill, petrological parameters in sedimentary basins and mathematical analysis of basin data; coal forming environments. Field work includes comparison of facies on the cratonic and arc sides of the retroarc Sydney Basin sequence.
Reference:
Co-ordinator: Associate Professor B G Jones.

GEOS920 Organic Petrology
Spring session: 8 credit points (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; 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. Laboratory exercises include examination of Gondwana and northern hemisphere coals; field work includes examination of seams in outcrop and core.
Co-ordinator: Associate Professor A C Hutton.

GEOS921 Environmental Geology
Spring session: 8 credit points (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 the relationship of mining operations to communities; downstream pollution problems; mineralogical composition and types of associated dusts; comp-oxid 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. Field work includes visits to appropriate and topical field locations, extractive mineral and industrial sites.
Co-ordinator: Dr BE Chenhall.

GEOS922 Tectonics
Autumn session: 8 credit points (up to 42 hrs lectures/seminars/practicals/tutorials; up to 4 days field tutorials).
Assessment: as appropriate from essays, reports, seminars, final examination.
The subject provides an overview of the dynamic Earth with analysis of plate tectonics and the tectonic development of ancient rock assemblages and orogenic systems. Aspects of tectonic theory are treated by reference to several examples of Phanerozoic and Precambrian orogenic systems.
Reference:
Co-ordinator: Dr C L Ferguson.

GEOS923 Structural Geology
Autumn session: 8 credit points (up to 42 hrs lectures/seminars/practicals; up to 5 days field tutorials).
Assessment: as appropriate from essays, reports, seminars, final examination.
The subject provides an overview of deformation of the Earth's crust and modern applied techniques in structural geology. The principles of stress, strain and deformation are taught and applied to the understanding of rock structures.
Reference:
Co-ordinator: Dr CL Ferguson.

GEOS970 Project A
18 credit points.
Assessment: report, seminar and essays and examinations as appropriate.
This project will consist of a field, laboratory and/or library study on some topical aspect of geology equivalent to four months of full-time study.

GEOS971 Project B
18 credit points.
Assessment: report, seminar and essays and examinations as appropriate.
This project will consist of a field, laboratory and/or library study on some topical aspect of geology equivalent to four months of full-time study.

GEOS999 Major Thesis
48 credit points per year.
The major thesis for the Doctor of Philosophy degree takes the form of a supervised research project on an approved topic.
PHYSICS

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

<table>
<thead>
<tr>
<th>Graduate Diploma Science (Physics)</th>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS230</td>
<td>Intermediate Physics</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>PHYS255</td>
<td>Radiation Physics</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS295</td>
<td>Concepts of the Modern Universe</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS225</td>
<td>Mechanics and Thermodynamics</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MATH201</td>
<td>Multivariate and Vector Calculus*</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MATH202</td>
<td>Applied Differential Equations*</td>
<td>6</td>
<td></td>
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<tr>
<td>MATH261</td>
<td>Mathematics IIA for Engineers</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MATH262</td>
<td>Mathematics IIB for Engineers</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS305</td>
<td>Quantum Mechanics*</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS315</td>
<td>Current Topics in Physics</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS325</td>
<td>Electromagnetism and Plasma Physics*</td>
<td>6</td>
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</tr>
<tr>
<td>PHYS335</td>
<td>Classical Mechanics*</td>
<td>6</td>
<td></td>
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<tr>
<td>PHYS345</td>
<td>Medical Physics</td>
<td>6</td>
<td></td>
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<tr>
<td>PHYS355</td>
<td>Radiation Therapy Physics</td>
<td>6</td>
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<tr>
<td>PHYS365</td>
<td>Detection of Radiation: Neutrons, Electrons and X-Rays</td>
<td>6</td>
<td></td>
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<tr>
<td>PHYS375</td>
<td>Nuclear &amp; Solid State Physics</td>
<td>6</td>
<td></td>
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<tr>
<td>PHYS385</td>
<td>Statistical Mechanics*</td>
<td>6</td>
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<tr>
<td>PHYS395</td>
<td>Astro-, Nuclear and Solid State Physics</td>
<td>12</td>
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<tr>
<td>PHYS401</td>
<td>Theoretical Mechanics and Electromagnetism</td>
<td>8</td>
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<tr>
<td>PHYS441</td>
<td>Astro- and Nuclear Physics</td>
<td>8</td>
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<td>PHYS444</td>
<td>Quantum Mechanics</td>
<td>8</td>
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<td>PHYS446</td>
<td>Solid State Physics</td>
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<td>PHYS452</td>
<td>Medical Imaging</td>
<td>8</td>
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<tr>
<td>PHYS453</td>
<td>Radiobiology &amp; Radiation Protection</td>
<td>8</td>
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<tr>
<td>PHYS454</td>
<td>Physics of Diagnostic Radiology</td>
<td>8</td>
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<tr>
<td>PHYS455</td>
<td>Basic and Applied Pathology</td>
<td>8</td>
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<tr>
<td>PHYS456</td>
<td>Imaging Physics</td>
<td>8</td>
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<tr>
<td>PHYS910</td>
<td>Advanced Project in Physics A</td>
<td>6</td>
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<tr>
<td>PHYS921</td>
<td>Applied Physics Report</td>
<td>18</td>
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<tr>
<td>PHYS947</td>
<td>Special Topics in Physics A</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS948</td>
<td>The Physics of Imaging</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS960</td>
<td>Advanced Project in Physics B</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS997</td>
<td>Special Topics in Physics B</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHYS990</td>
<td>Applied Physics Project</td>
<td>24</td>
<td></td>
</tr>
</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>
<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>PHYS960</td>
<td>Advanced Project in Physics B</td>
<td>6</td>
</tr>
<tr>
<td>PHYS997</td>
<td>Special Topic in Physics B</td>
<td>6</td>
</tr>
<tr>
<td>PHYS999</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

For further details, see Course Requirements below.
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 session; 6 credit points (42 hrs laboratory).
Assessment: satisfactory operation and written descriptions of completed experiments. The student will be required to design and construct several self-contained experiments at the level of those encountered in PHYS309 Advanced Experimental Physics. The number and type shall be determined by two members of the academic staff of the Department of Physics.
Co-ordinator: Associate Professor W Zealey.

PHYS946 Advanced Solid State Physics

Double Session (A); 6 credit points.
Assessment: assignments, tests and sessional examinations.
Crystal Symmetries; Groups of Linear Transformation; Abstract Groups; Theory of Group Representations; Group of the Schrödinger Equation; Selection Rule Theorem; Groups of Physical Interest; Rotation Operations; Double-Valued Representations; Direct Products; Crystal Fields; Adiabatic Approximations; Bloch’s Theorem; The Effective Mass Expansion; Spin-Orbit Interaction; Time-reversal Symmetry; Symmetry Properties of Wave Vectors; Band Theory; Impurities in Semiconductors.
Co-ordinator: Professor P Fisher and Dr C Zhang.

PHYS947 Special Topic in Physics A

Autumn session; 6 credit points (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.
Co-ordinator: Associate Professor W Zealey.

PHYS948 The Physics of Imaging

Autumn session; 6 credit points (28 contract hrs).
Pre-requisite: Relevant academic or professional background.
Assessment: assignments and end of session paper.
Photographic processes and interpretation; Optical and infrared arrays; Image digitising systems; Radio synthesis imaging and fourier optics; Image analysis; Applications in industry, medicine and astrophysics.
Textbook: Notes will be provided and relevant reading material will be drawn from monographs and papers.
Co-ordinator: Associate Professor W Zealey.

PHYS960 Advanced Project in Physics B

Spring session; 6 credit points (42 hrs laboratory).
Assessment: satisfactory operation and written descriptions of completed experiments. The student will be required to design and construct several self-contained experiments at the level of those encountered in PHYS309 Projects in Physics A. The number and type shall be determined by two members of the academic staff of the Department of Physics.
Co-ordinator: Associate Professor W Zealey.

PHYS997 Special Topic in Physics B

Spring session; 6 credit points (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.
Co-ordinator: Associate Professor W Zealey.

PHYS999 Major Thesis

Double session (A); 48 credit points per year.
The major thesis takes the form of a supervised research project on an approved topic.
CROSS FACULTY PROGRAM
CROSS FACULTY PROGRAM

COURSES OFFERED

The following courses are offered through the Business School within the Faculty of Commerce.

1. Honours Master of Total Quality Management
2. Graduate Diploma in Total Quality Management
3. Graduate Certificate in Total Quality Management

*PhD in TQM may be available, contact course co-ordinator.

POSTGRADUATE PROGRAM

Total Quality Management

SCHEDULE OF PROGRAMS

POSTGRADUATE PROGRAM IN TOTAL QUALITY MANAGEMENT

leading to the Honours Master of Total Quality Management, Graduate Diploma in Total Quality Management and Graduate Certificate in Total Quality Management.

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>TQM911</td>
<td>Introduction to Quality Concepts</td>
<td>6</td>
</tr>
<tr>
<td>STAT949</td>
<td>Statistical Thinking</td>
<td>6</td>
</tr>
<tr>
<td>ENGG921</td>
<td>Engineering Data Reduction and Error Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MECH961</td>
<td>Quality Improvement Systems and Implementation</td>
<td>6</td>
</tr>
<tr>
<td>MGMT906</td>
<td>Managing People at Work</td>
<td>6</td>
</tr>
<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
<td>6</td>
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</tbody>
</table>

Graduate Certificate subjects plus:

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT941</td>
<td>Statistical Quality Control I</td>
<td>6</td>
</tr>
<tr>
<td>ENGG922</td>
<td>Statistical Process Control in Manufacturing and Service Industries</td>
<td>6</td>
</tr>
<tr>
<td>MECH960</td>
<td>Industrial Quality Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT915</td>
<td>Management of Change</td>
<td>6</td>
</tr>
<tr>
<td>TQM912</td>
<td>An Overview of Quality Management</td>
<td>6</td>
</tr>
</tbody>
</table>

Honours Master

MGMT919 | Human Resource Strategies and TQM | 6 |
MECH967 | International Quality Techniques | 6 |
STAT942 | Design and Analysis for Quality Control | 6 |
MGMT953 | Human Resource Management | 6 |
MARK970 | Contemporary Issues in Services Quality | 6 |
MECH956 | Quality in Engineering Design | 6 |
TQM913 | Thesis in Quality Management | 24 |

Applicants with an outstanding achievement record at Graduate Diploma level may be admitted to:

TQM914 | Thesis in Quality Management | 48 |

COURSE REQUIREMENTS

GENERAL

Students seeking Advanced Standing or Exemption are advised to refer to the University Rules, under the General Information section of the Postgraduate Calendar.

1. HONOURS MASTER OF TOTAL QUALITY MANAGEMENT

This course will be offered on a part-time and full-time basis and will require a minimum study period of one year full-time or two years part-time. Candidates will be required to complete the Graduate Diploma in Total Quality Management and a further 48 credit points. The 48 credit points must include a 24 credit point research thesis and 4 subjects as outlined above. Alternatively, applicants with outstanding entry qualifications may complete their Honours Master of TQM by thesis only through enrolling in a 48 credit point thesis (TQM914).

The research thesis must be completed with supervision from one of the Faculties of Commerce, Informatics or Engineering. This research project can be industry based and tailored to the candidate's work-place requirements.

Entry Requirements:

A Graduate Diploma in Total Quality Management or an appropriate Graduate Diploma or Honours degree in the University or other approved institution. Prior to the conferring of the degree of Honours Master of Total Quality Management upon a candidate, the candidate must surrender the testamur for the Diploma in Total Quality Management and in doing so will be deemed to have surrendered all rights pertaining to the diploma.

2. GRADUATE DIPLOMA IN TOTAL QUALITY MANAGEMENT

The candidate is required to successfully complete 48 credit points of course work as outlined in the schedule.

Entry Requirements:

Three or four year Bachelor Degree from the University or other approved institution with the qualifications of candidates applying for entrance to be assessed by the course co-ordinator(s).
3. GRADUATE CERTIFICATE IN TOTAL QUALITY MANAGEMENT

The candidate is required to successfully complete 24 credit points of course work as outlined in the schedule. 

Entry Requirements:
The University may consider candidates who do not possess formal qualifications but can offer substantial professional experience in the area.

EXTERNAL COURSES

The Graduate Diploma in Total Quality Management and the Graduate Certificate in Total Quality Management are available externally through PAGE, Wollongong Online and through The University Centre, Sydney.

SUBJECT DESCRIPTIONS

Where subject co-ordinators are not specified, details will be made available at a later date.

ENG9921 Engineering Data Reduction and Error Analysis
6 credit points (3 hrs per week).
Assessment: final examination and compulsory assignments.
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.

ENG9922 Statistical Process Control in Manufacturing and Service Industries
6 credit points (3 hrs per week).
Assessment: final examination and compulsory assignments.

MECH960 Industrial Quality Management
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, other examinations, projects, tutorials and assignments may be incorporated in the final assessment.
Topics to be covered include: process capability; statistical process control and capability case-studies; JIT (Just In Time) & TQM; quality information systems and key performance indicators.
Co-ordinator: Associate Professor V Stewart.

MECH961 Quality Improvement Systems and Implementation
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, other examinations, projects, tutorials and assignments may be incorporated in the final assessment.
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.
Co-ordinator: Associate Professor V Stewart.

MECH965 Quality in Engineering Design
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, other examinations, projects, tutorials and assignments may be incorporated in the final assessment.
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.
Co-ordinator: Associate Professor V Stewart.

MECH967 International Quality Techniques
Autumn or Spring session; 6 credit points (28 hrs lectures, 14 hrs tutorials).
Assessment: final examination, projects and assignments may be incorporated in the final assessment.
An international perspective on quality, with a case comparison of the quality techniques employed in the major regions of the world. 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. Areas of commonality and difference; Techniques of emerging importance in both the manufacturing and service fields, such as self-diagnosis, benchmarking, business process reengineering, concurrent engineering, quality function deployment, and software quality management. The quality award system in use in each region will be studied and compared.
Co-ordinator: Associate Professor V Stewart.

MGMT906 Managing People at Work
6 credit points (3 hrs per week).
Assessment: seminars, case studies, essay(s) and examination(s).
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.
Co-ordinator: Professor S Linstead.

MGMT911 Organisational Behaviour
6 credit points (3 hrs per week).
Assessment: seminars, case studies, essays and examination.
This subject is designed to introduce students of TQM to the basic principles and concepts underlying behaviour in organisations. Topics to be covered include individual attributes, motivation, decision-making, group structure and process, communication, leadership, conflict and organisational change. The context for the discussion of organisational behaviour recognises that TQM is an ongoing process, implemented by a management and staff aware of the role played by organisational culture in the development of continuous improvement.
Note: Students need permission of Coordinator to enrol in this subject.
Co-ordinator: Dr R Jones.

MGMT919 Human Resource Strategies and TQM
6 credit points (3 hrs per week).
Assessment: seminars, essays and examination.
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, bringing to the company's ability to compete in world markets. The specific elements of TQM that are related 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 developments of TQM will be assessed.
Co-ordinator: Professor M Hough.

MGMT915 Management of Change
6 credit points (3 hrs lectures/seminars per week).
Assessment: seminars, project and examination.
Pre-requisite: MGMT9306 or MGMT911.
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.
Co-ordinator: Dr R Jones.

MGMT953 Human Resource Management
6 credit points (3 hrs per week).
Assessment: group presentation(s), tutorial assignment(s), examination(s).
Job Design, Job Analysis and Training; Unionisation; Employee Involvement;
MARK970 Contemporary Issues in Services Quality
6 credit points (3 hrs per wk).
Assessment: critique of academic literature, case presentations, assignments.
This course is designed to follow on from MGMT938 Managing Services Marketing. It will focus on advanced topics in service quality, customer satisfaction with services, and strategic issues relating to the marketing and relationship management in service organisations. Emphasis will be placed on reviewing contemporary readings in the academic and professional literature. 
Note: Not available in 1997.

STAT941 Statistical Quality Control 1
6 credit points.
Pre-requisite: MATH949.
Assessment: assignments and examinations.
Co-ordinator: Dr C Gulati.

STAT942 Design and Analysis for Quality Control
6 credit points.
Assessment: examination and assignments.
Co-ordinator: Dr Y Lin.

STAT949 Statistical Thinking
6 credit points.
Assessment: assignments and examinations.
Co-ordinator: Professor D Griffiths.

TQM911 Introduction to Quality Concepts
6 credit points.
This subject should be taken in the first session of study.
Assessment: one presentation, two major assignments, examination.
An overview of the concept of quality in organisational settings. The concept of a "quality audit" and how to undertake it. Issues and problems in implementing and coordinating total quality techniques in an organisational setting. The concepts and issues of design quality, planning quality and implementation quality. Students will be required to undertake an extensive case study of the success factors and challenges of implementing total quality into an organisation, and present a detailed, comprehensive analysis from the selected case study.
Co-ordinator: Professor M Hough.

TQM912 An Overview of Quality Management
6 credit points.
This is a capstone subject and should be taken in the final stages of the course.
Assessment: seminar and project.
Co-ordinator: Associate Professor GJ Montagner.

TQM913 Thesis in Quality Management
24 credit points.
Assessment: presentation of completed thesis.
Each candidate will be required to have a substantive research proposal approved in an aspect of total quality management, undertake a satisfactory research cycle into the approved topic, and submit a thesis of an acceptable format and standard.
Co-ordinator: Associate Professor GJ Montagner.

TQM914 Thesis in Quality Management
48 credit points.
Assessment: presentation of completed thesis.
Each candidate will be required to have a substantive research proposal approved in an aspect of total quality management, undertake a satisfactory research cycle into the approved topic, and submit a thesis of an acceptable format and standard.
Co-ordinator: Associate Professor GJ Montagner.
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