ARMs of the University

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

The blazon is: "Azure an open book proper bound gold on a chief wavy of three cinquefoils gules."
The University of Wollongong, Northfields Avenue, Wollongong, N.S.W.
Postal Address: P.O. Box 1144, Wollongong, N.S.W., 2500, Australia.
Telephone: (042) 270555
Telex: 29022
Cable: UNIOFWOL
Fax: (042) 270 477
All enquiries should be addressed to the University Secretary.

The University of Wollongong Calendar

There are 3 volumes of the Calendar:

The University of Wollongong Calendar 1985 Volume I
Legislation (Not reprinted on an annual basis)

The University of Wollongong Calendar 1989 Volume II
Undergraduate Handbook

The University of Wollongong Calendar 1989 Volume III
Postgraduate Handbook

Editorial and Production: Academic Services Branch
University of Wollongong

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Pages (i) - (iv) and 37 - 299
Marion Allen
Kay McKinnon
Lynell Reed

Printing: Bridge Printery, Rosebery, N.S.W.
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INFORMATION IN THIS CALENDAR IS CURRENT AT THE TIME OF PRINTING, BUT MAY BE AMENDED WITHOUT NOTICE BY THE UNIVERSITY COUNCIL.

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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 complex 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 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 programmes.

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

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 some 80 kilometres south of Sydney.

The University had its foundation in 1962 as a College of the University of New South Wales. In 1975, by Act of New South Wales Parliament, it 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 and also dates its foundation back to 1962.

The University now both provides courses and undertakes research and other activities of accepted university standard, and, per medium of its Institute of Advanced Education, provides advanced education courses and undertakes activities of a similar type and range as do Colleges of Advanced Education generally.

One significant advantage for students at Wollongong is that they are able to select from courses of a traditional University, or College of Advanced Education nature, and in some instances study across both sectors.

The total student enrolment now exceeds 7,000; which in terms of size places the University of Wollongong in the middle range of Australian Universities; this means that the student body is diverse and stimulating, yet small enough to retain a friendly and relaxed atmosphere.

Details of postgraduate courses are given in this volume. Details of the undergraduate courses are given in Volume II of this Calendar.

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

SUMMER SESSION
December 12 to December 23

CHRISTMAS RECESS
December 26 to December 30
January 2 to February 3
February 6 to February 10

EXAMINATIONS

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>December</td>
<td>Monday 12</td>
<td>Summer Session lectures commence</td>
</tr>
<tr>
<td></td>
<td>Monday 26</td>
<td>Christmas recess commences</td>
</tr>
<tr>
<td></td>
<td>Friday 30</td>
<td>Christmas recess ends</td>
</tr>
<tr>
<td>January</td>
<td>Thursday 26</td>
<td>Australia Day holiday</td>
</tr>
<tr>
<td>February</td>
<td>Friday 3</td>
<td>Summer Session lectures finish</td>
</tr>
<tr>
<td></td>
<td>Monday 6</td>
<td>Examinations commence</td>
</tr>
<tr>
<td></td>
<td>Friday 10</td>
<td>Examinations finish</td>
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SESSION 1
February 27 to March 26

RECESS
March 27 to April 2
April 3 to June 11
June 12 to June 18
June 19 to July 2
July 3 to July 16

STUDY RECESS
EXAMINATIONS
MID-YEAR RECESS

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
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<tr>
<td>January</td>
<td>Sunday 1</td>
<td>New Year's Day holiday</td>
</tr>
<tr>
<td></td>
<td>Tuesday 10</td>
<td>Last day for Undergraduate re-enrolments (postal)</td>
</tr>
<tr>
<td></td>
<td>Tuesday 10</td>
<td>Last day for Postgraduate Enrolments and Re-enrolments (postal)</td>
</tr>
<tr>
<td></td>
<td>Friday 13</td>
<td>Last day for External re-enrolments (postal)</td>
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<tr>
<td></td>
<td>Thursday 26</td>
<td>Australia Day holiday</td>
</tr>
<tr>
<td>January</td>
<td>Tuesday 31, Wednesday 1, Thursday 2, Friday 3</td>
<td>Enrolment of new undergraduates</td>
</tr>
<tr>
<td></td>
<td>Wednesday 15</td>
<td>Enrolment Day — Undergraduate Final Round offers</td>
</tr>
<tr>
<td></td>
<td>Friday 24</td>
<td>Last day for Payment of Compulsory Charges of Re-enrolling Students</td>
</tr>
<tr>
<td></td>
<td>Monday 27</td>
<td>Session 1 lectures commence</td>
</tr>
<tr>
<td>March</td>
<td>Friday 24</td>
<td>Good Friday</td>
</tr>
</tbody>
</table>
April
- Monday 27: Easter Monday recess begins
- Sunday 2: April recess ends
- Tuesday 25: Anzac Day holiday

June
- Sunday 11: Session 1 lectures finish
- Monday 12: Queen’s Birthday holiday
- Monday 12: Study recess commences
- Sunday 18: Study recess ends
- Monday 19: Examinations commence

July
- Monday 3: Mid-year recess commences

SESSION 2
July 17 to September 24

<table>
<thead>
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<td>July 16</td>
<td>Mid-year recess ends</td>
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<tr>
<td>Monday 17</td>
<td>Session 2 lectures commence</td>
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<td>Monday 25</td>
<td>Recess commences</td>
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<tr>
<td>Sunday 8</td>
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<td>October</td>
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<td>Monday 2</td>
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<td>Sunday 5</td>
<td>Session 2 lectures finish</td>
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<td>Monday 6</td>
<td>Study recess commences</td>
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<tr>
<td>Sunday 12</td>
<td>Study recess ends</td>
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<td>Monday 25</td>
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<tr>
<td>Tuesday 26</td>
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THE FACULTIES

ARTS
Member Units
Department of English
Department of History & Politics
Department of Languages
Department of Philosophy
Department of Psychology
Department of Science and Technology Studies
Department of Sociology
School of Creative Arts

Associate Units
Boards of Studies for:
- Information Technology and Communication
- Interdisciplinary Studies
- Political Studies
Centre for Technology and Social Change
Centre for Multicultural Studies
Conservatorium of Music

COMMERCE
Member Units
Department of Accountancy & Legal Studies
Department of Economics
Department of Management
School of Industrial and Administrative Studies

EDUCATION
Member Units
School of Policy & Technology Studies in Education
School of Curriculum Studies
School of Behaviour & Cultural Studies in Education

Associate Units
Aboriginal Teacher Education Unit
Conservatorium of Music

ENGINEERING
Member Units
Department of Civil and Mining Engineering
Department of Electrical and Computer Engineering
Department of Mechanical Engineering
Department of Metallurgy and Materials Engineering

Associate Units
Centre for Mining Research

MATHEMATICAL SCIENCES
Member Units
Department of Computing Science
Department of Mathematics
SCIENCE

Member Units
Department of Biology
Department of Chemistry
Department of Geography
Department of Geology
Department of Physics
School of Health Sciences

Associate Units
Board of Studies for Environmental Science
THE DEGREES AND DIPLOMAS AWARDED
UNDERGRADUATE
Associate Diplomas in:
ADMINISTRATION
COMPUTER APPLICATIONS
Diplomas in:
TEACHING
NURSING
Bachelor of:
APPLIED SCIENCE
APPLIED SCIENCE (HONOURS)
ARTS
ARTS (HONOURS)
COMMERCE
COMMERCE (HONOURS)
CREATIVE ARTS
EDUCATION
EDUCATION (HONOURS)
ENGINEERING
ENGINEERING (HONOURS)
ENGINEERING/COMMERCE
ENGINEERING (HONOURS)/COMMERCE
ENVIRONMENTAL SCIENCE
ENVIRONMENTAL SCIENCE (HONOURS)
INFORMATION TECHNOLOGY AND COMMUNICATION
INFORMATION TECHNOLOGY AND COMMUNICATION (HONOURS)
MATHEMATICS
MATHEMATICS (HONOURS)
MATHEMATICS/ENGINEERING
MATHEMATICS/ENGINEERING (HONOURS)
NURSING
SCIENCE
SCIENCE (HONOURS)
SCIENCE/ENGINEERING
SCIENCE/ENGINEERING (HONOURS)
POSTGRADUATE
Graduate Diplomas in:
ARTS
COMMERCE
COMPUTING SCIENCE
EDUCATION
EDUCATIONAL STUDIES
ENGINEERING
SCIENCE
Master of
ARTS
BUSINESS ADMINISTRATION
COMMERCE
CREATIVE ARTS
EDUCATION
POLICY
SCIENCE
Masters (Honours)
ARTS
COMMERCE
EDUCATION
ENGINEERING
SCIENCE
Doctor of:
CREATIVE ARTS
PHILOSOPHY
LETTERS
SCIENCE
THE UNIVERSITY OF WOLLONGONG

Visitor
His Excellency the Governor of New South Wales

Chancellor
The Honourable Mr. Justice Robert Marsden Hope, CMG, LLB Syd.

Deputy Chancellor
Brian Somerville Gillett, BA DipEd

Vice-Chancellor
Professor Kenneth Richard McKinnon, A.U.A. Adel., BA BEd Q'Id., EdD Harv., FACE

Deputy Vice-Chancellor (Academic And Research)
Professor Ian W. Chubb, MSc DPhil Oxf.

Deputy Vice-Chancellor (Services And Development)
Director Of The Institute Of Advanced Education
Professor Peter Desmond Rousch, BA BEd Melib., PhD Wayne State, FACE, FAIM

MEMBERS OF COUNCIL*

ELECTED BY THE LEGISLATIVE COUNCIL
The Honourable Edward Phillip Pickering, MLC, BSc(Chem. Eng.) NSW, M

ELECTED BY THE LEGISLATIVE ASSEMBLY
The Honourable Christopher John Downey, M.L.A., BA DipEd., Syd.,

MINISTERIAL NOMINEES
Brian Somerville Gillett, BA DipEd
Eleanor Mary Lynch, Solicitor
Graham Roberts
Colin Patrick Hollis, M.P., BA Open, BSc (Econ), DIA Lond.
Jeremy Kitson Ellis MA Oxf.
Julia Ellen Munro, LLB Syd., Solicitor

EX OFFICIO
The Chancellor: The Honourable Mr. Justice Robert Marsden Hope, CMG, LLB Syd.
The Vice-Chancellor: Professor Kenneth Richard McKinnon, A.U.A. Adel., BA BEd Q'Id., EdD Harv., F.A.C.E.
The Director of the Institute of Advanced Education: Professor Peter Desmond Rousch, BA BEd Melib., PhD Wayne State, FACE FAIM

ELECTED BY THE STUDENTS OF THE UNIVERSITY
David Brown
Paul L. Manning, BEd Syd.

ELECTED BY CONVOCATION
James Wilmot Dombroski, BSc Syd.
Alderman Keith W. Phipps, BA DipEd. MACE
Dr. Winifred Joyce Mitchell, MA N.E., PhD N.S.W.
Gary R. Ryan, BCom

ELECTED BY THE FULL-TIME ACADEMIC STAFF OF THE UNIVERSITY
Two Professorial members
Professor Ronald C. King, BCom BEd Melib., PhD Monash, FAPsS
Professor Murray G. A. Wilson, MA N.Z. MA Wis., PhD Melb MCIT

Two Academic Staff Members other than Professors
Dr. Maxwell J. Lowrey, ME N.S.W. PhD, ASTC, MIEAust, MACS
Dr. John R. Panter, BA Adel, PhD N.S.W.

Two Members elected by the Institute Academic Staff
William Mowbray, BSc MEd N.S.W.
Edward O. Booth, BEc DipEd, MEd, Syd., Ed.D Hawaii

ELECTED BY THE FULL-TIME GENERAL STAFF OF THE UNIVERSITY
Felicity McGregor, BA DipLib N.S.W. ALAA
Ronald B. Parker, BA
Kathleen M. Rozmeta, BA N.E. MEd Syd.

THE ACADEMIC SENATE*

Chairman of Senate
Professor Ronald C. King

Ex Officio Members
The Honourable Justice Robert M. Hope, Chancellor
Professor Kenneth R. McKinnon, Vice-Chancellor
Professor Ian W. Chubb, Deputy Vice-Chancellor
Professor Peter D. Rousch, Deputy Vice-Chancellor/Director of the Institute of Advanced Education
Mr. Kenneth E. Baumber, University Secretary
Mr. John Shipp, University Librarian

Heads Of Departments
Professor Michael J. R. Gaffikin, Department of Accountancy
Professor Helen M. Garnett, Department of Biology
Professor Leon Kane-Maguire, Department of Chemistry
Professor Lewis C. Schmidt, Department of Civil & Mining Engineering
Associate Professor Gregory Doherty, Department of Computing Science
Professor Dudley A. S. Jackson, Department of Economics
Professor Brian H. Smith, Department of Electrical & Computer Engineering
Dr. James M. Wieland, Department of English
Professor Murray G. A. Wilson, Department of Geography
Professor Alan C. Cook, Department of Geology
Professor Edward P. Wolters. Department of History and Politics
Dr. Daniel S. Hawley, Department of Languages

*Membership at time of printing (Sept., 1988)
Professor Julian F. Lowe, Department of Management
Professor John R. Blake, Department of Mathematics
Professor Peter Arnold, Department of Mechanical Engineering
Professor William J. Plumbridge, Department of Metallurgy and Materials Engineering
Professor J. L. C. Chipman, Department of Philosophy
Professor Peter Fisher, Department of Physics
Professor William J. Lovegrove, Department of Psychology
Associate Professor James E. Falk, Department of Science and Technology Studies
Professor Stephen C. Hill, Department of Sociology

Deans Of Faculties
Professor James S. Hagan, Faculty of Arts
Mr. John C. Steinke, Faculty of Commerce
Associate Professor David R. Anderson, Faculty of Education
Professor Brian H. Smith, Faculty of Engineering
Professor John R. Blake, Faculty of Mathematical Sciences
Associate Professor Peter D. Bolton, Faculty of Science

Heads Of Schools
Professor Edward Cowie, School of Creative Arts
Professor Carla Fasano, School of Policy and Technology Studies in Education
Associate Professor Brian Cambourne, School of Curriculum Studies
Professor Ronald C. King, School of Behaviour and Cultural Studies in Education, Chairman of Senate
Dr. Michael Hough, School of Industrial & Administrative Studies
Professor G. Dennis Calvert, School of Health Sciences

Heads Of Centres
Professor Stephen Castles, Centre for Multicultural Studies
Professor Ron Johnston, Centre for Technology and Social Change

Elected Members

ACADEMIC STAFF ELECTED BY AND FROM THE MEMBERS OF EACH FACULTY
Dr. Evelleen Richards (Faculty of Arts)
Dr. Bruce W. N. Lo (Faculty of Commerce)
Dr. N. Kyle (Faculty of Education)
Associate Professor Robyn N. Chowdhury (Faculty of Engineering)
Dr. A. G. Morris (Faculty of Mathematical Sciences)
Associate Professor Frank Pike (Faculty of Science)

STUDENT MEMBERS
Mr. David Brown
Ms. R. L. Bushman
Mr. E. Gonzaleas

Mr. P. Martin
Mr. Daniel J. Morrissey
HONORARY GRADUATES AND FELLOWS OF THE UNIVERSITY SINCE ITS ESTABLISHMENT

1976
DSc: Professor Charles A.M. Gray, Hon. JMN, BSc ME Syd., Hon. DSc N.S.W., CEng, FI MechE, MICE, MIE Aust, FIE (Malaysia), Emeritus Professor, University of Malaya.
Professor Rupert H. Myers, CBE, MSc, PhD Melb., Hon. LLD Strath, FIM, FRACI, FAIM, MAusIMM.
David E. Parry, BE Syd.
Sir Robert Webster, CMG, CBE, MC Hon. DSc N.S.W., FASA (deceased)

1977
Dlitt: Edgar Beale

1978
DSc: Sir Ian Munro McLennan, KBE, CBE, BEE Melb., Hon. DEng Melb. and N'cle (N.S.W.)

1980
Dlitt: Walter Pike, MA DipPA Lond., DipEd Camb., AFAIM, MACE

1981
Dlitt: Lindsay Michael Birt, CBE, BAgrSc BSc PhD Melb., DPhil Oxf.

1984
Dlitt: Sir Richard Kirby, LLB Syd.

1985
DSc: Thistle Yolette Stead
DLitt: Sir Roden Cutler, VC, KCMG, KCVO, CBE, KStJ, BEc Syd., Hon. LLD Syd., Hon. DSc N.S.W. and N'cle (N.S.W.), Hon. Dlitt NE, Hon. FCA

DCA: John Henry Antill, OBE, CMG (deceased)

MA(Hons): Luigi Strano
Fellows: Francis Neville Arkell
          Ethel Hoskins Hayton
          Lawrence Borthwick Kelly
          Mervyn Francis Xavier Nixon

1986
Fellows: John Forrest Hayman Clark, BMechE, Melb. FIE Aust, MAusIMM
          Burton Challice Moldrich, BA Ceyl, Dip Tertiary Ed. NE
          Robert John Butler Pearson, AM, FIM, AMTC, MAusIMM, FIMMA, FAIM

1988
DSc: Howard Knox Worner, CBE, DSc, DEng, Melb., Hon. DSc, N'cle (NSW), ABSM, CEng, FAA, FTS, MAUSIMM, FIE, Aust., FRACI, FAIE, FIM, FIMM, MAIME

Fellows: John Frederick Bell
          Gerald Anthony Freed
          Winifred Joyce Mitchell, BA, MA, NE., PhD, NSW

EMERITUS PROFESSORS

1978
Austin Keane MSc, Syd., PhD, NSW., DSc (Posthumous)

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

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

1986
R. Barry Leal, MA DipEd Syd, PhD Qld
FULL TIME STAFF*
PRINCIPAL OFFICERS

Vice-Chancellor
Professor Kenneth R. McKinnon, A.U.A. Adel., BA BEd Qld., EdD Harv., FACE

Deputy Vice-Chancellor (Academic and Research)
Professor Ian W. Chubb, MSc DPhil Oxf.

Deputy Vice-Chancellor (Services and Development)
Director of the Institute of Advanced Education
Professor Peter D. Rousch, BA, BEd Melb., PhD Wayne State, FACE, FAIM

University Secretary
Kenneth E. Baumber, BSc, St. And.

Deputy University Secretary and Business Manager
James W. Langridge, BBus NSWIT, Dip Tertiary Ed NE, MACS.

University Librarian
John Shipp, BA DipEd Macq, DipArchAdmin NSW, ALAA

Dean of Faculty of Arts
Professor James S. Hagan, BA DipEd Syd., PhD ANU

Dean of Faculty of Commerce
John C. Steinke, MA Calif

Dean of Faculty of Education
Associate Professor David R. Anderson, BA MEd Syd., Dip PhysEd STC MACE

Dean of Faculty of Engineering
Professor Brian H. Smith, BE PhD Adel., MIEE, FIE Aust.

Dean of Faculty of Mathematical Sciences
Professor John R. Blake, BSc Adel., PhD Cant.

Dean of Faculty of Science
Associate Professor Peter D. Bolton, BSc Exe., PhD Lond. ARSC, FRACI

Dean of Students
Professor Murray G.A. Wilson, MA N.Z., MA Wis., PhD Melb.

FACULTY OF ARTS

Dean
Professor James S. Hagan, BA DipEd Syd., PhD ANU
Sub-Dean Josephine A. Castle, BA Syd., MA Warwick

Faculty Officer
Warren R. Mahoney, BCom NSW

DEPARTMENT OF ENGLISH
Departmental Head and Associate Professor
James M. Wieland, BA W.Aust., MA PhD Qu.

Professor
Raymond G.T. Southall, BA Keele, PhD Birm.

Senior Lecturers
William D. McGaw, BA Q'ld, MA Macq.
Maurice B. Scott, BA N.S.W., MA N'cle (N.S.W.)

Lecturers
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Leon Kane-Maguire, BSc PhD Q’ld

Associate Professor
John Ellis, BSc Syd., PhD N.S.W., FRACI
Peter D. Bolton, BSc Exe., PhD Lond., ARSC, FRACI
Peter G. Burton, BSc PhD Monash, ARCAI

Senior Lecturers
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Garry M. Mockler, BSc PhD N.S.W., ARACI
Roger J.W. Truscott, BSc PhD Melb.

Lecturers
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Mary J. Garson, BA PhD Camb.
David W.T. Griffith, BSc PhD Monash
William K. Hannan, MSc Syd.
Stephen G. Pyne, BSc Adel., PhD A.N.U.

Gordon G. Wallace, BSc PhD Deakin

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Roslyn J. Atkins, BSc, MSc
Greg W. Diven, BSc
Mark Imisides, BSc
Gregory J. Oehm, BSc

Professional Officer
John Korth, BSc N.S.W., PhD, MSc

DEPARTMENT OF GEOGRAPHY

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Robert W. Young, MA DipEd PhD Syd.

Senior Lecturers
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Edison Dayal, MA Ald., PhD Delhi

Lecturers
Lesley M. Head, PhD Monash
Antoinette L. O’Neill, BAppSc Canberra CAE, MAAppSc N.S.W.
Hilary P. Winchester, PhD Camb.
Colin Woodroffe, PhD Camb.

Honorary Lecturer
Ann R. M. Young, BSc Syd., MSc PhD

Honorary Research Associate
Kevin G. Mills, BA PhD

DEPARTMENT OF GEOLOGY

Departmental Head and Professor
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Associate Professors
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Anthony J. Wright, BSc PhD Syd.

Lecturers
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Bryan E. Chenhall, BSc PhD Syd.
Christopher L. Fergusson, BA Macq., PhD N.E.
Adrian C. Hutton, BA N.E., BSc PhD
Leonie E. A. Jones, BSc Qld., PhD ANU

Principal Tutor
John W. Pemberton, BSc

Professional Officers
Aivars Depers, BSc Adel.
Rozalia M. Varga BSc

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Howard K. Worner, CBE, DSc Hon DEng., Melb., Hon DSc N’c/e (N.S.W.), Hon DSc. ABSM, CEng, FAA, FTS, MAusIMM, FIEAust, FRACI, FAIE, FIM, FIMM, MAIME
Honorary Senior Lecturers
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Richard A. Facer, BSc PhD Syd.
Malcolm C.B.B. Galloway, MSc Syd., PhD Sth. Carolina
Michael J. Garratt, BSc Lond., MSc Melb., PhD
Ronald G. Wilson, AWASM

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Departmental Head and Professor
Peter Fisher, BSc PhD W.Aust., MInstP, FAPS, FAIP

Senior Lecturers
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Jagdish N. Mathur, MSc Alg., DrRerNat Kiel, AAPI, IMEPS, MDPh
Phillip E. Simmonds, BSc W.Aust., DPhil Oxf., MAIP
William J. Zealey, BSc PhD Edin, FRAS, IAU

Lecturers
Carey A. Freeth, MSc PhD Cant., MAIP
Roger A. Lewis, BSc Syd. PhD Griffith GAIP
Glen K.G. Moore, BSc N.S.W., MAIP, FRAS, ASA
Abraham I. Segal, BSc Melb., GAIP, MAAS

Senior Research Officer
A. David Martin, BSc PhD Wales, MAIP

Research Associate
Rodney E. M. Vickers, MSc PhD Cant.

Teaching Fellow
George J. Takacs, BSc, GAIP

Research Assistant
Neil A. McLean, BSc

Professional Officer
Peter Ahnat, BE, BSc

SCHOOL OF HEALTH SCIENCES
Head of School and Professor
G. Dennis Calvert, BMedSc. MBChB MD Otago, MCB, FRACP, FRCPA, FRC Path

PUBLIC HEALTH
Associate Professor
Christine E. Ewan, MB BS PhD MA Syd.

Lecturer
Abdul Monaem, BA(Hons), MA Dacca, MSc Harvard, MHP N.S.W.

Honorary Associate Professor
Pat Mowbray, MB, BS Syd, MHPed N.S.W.

Honorary Senior Lecturers
Maurie Breust, BSocSc, Dip Public Policy New England
David Jeffs, LRCP, MRCS, MB, BS Lond., DObstRCOG, DCH, MRCP U.K.

Honorary Lecturers
Garry Lake, BCom N.S.W., MA Macq
Alex Leach, MB, BS N.S.W.
Geoff Robinson, BSc DipEd N.S.W.

Honorary Research Fellow
Glen Mitchell, BA N.S.W., DipEd, PhD

HUMAN MOVEMENT AND SPORTS SCIENCE
Associate Professor
Frank S. Pyke, BEd, MEd W.A., PhD Indiana

Senior Lecturers
Mark Anshel, BS Ill., MA McGill., PhD Flor.
Peter Milburn, Dip Phys Ed Otago. MS PhD Ill.
Thomas F. Penrose, Dip Phys Ed S.T.C., MSc Oregon
Graham R. Ward, TTC NZ, BSc, BE(Sc) MSc Mass., PhD MCM., ASPE NZ

Lecturers
Alistair Boag, Dip Phys Ed Melb., TSTC Melb., MA Humboldt, PhD Wash.
J. Mark Brown, BSc, MSc Qld
Karen Chad, BSc, BEd Sask., MA Vic., PhD Qld
Owen Curtis, Dip Phys Ed Melb., TSTC Melb., BEd (PE) Meb W.A.
Harry G. Fuller, Dip Phys Ed S.T.C., BSc Oregon
Christopher Hallinan, DipTeach, BSc Alberta, Med, PhD Toledo
Irene Romanova, BSc N.S.W., Grad Dip Physio Cumberland
Julie Steele, Dip Tch Kuring-gai, BPE W.A.

NURSING
Associate Professor
Bruce Partridge, RN, BA BEd N.E., DipAppSc(Nursing) DipNEd Cumb., FCN (N.S.W.)

Senior Lecturers
Maree Lynch, RN, BA Macq. DipNEd. Cumb., FCN (N.S.W.)
Jan Pincombe, RN, BA DipEd W.A., MAppSc, WAIT
Felix Yuen, RN, BA Lond., MSc Edinb., DipManagStud Thames Polytechnic, MCN N.S.W.

Lecturers
Rodger Anderson, RN, DipTeach(Nursing) Cumb., MCN (N.S.W.)
Alan Avery, RN, BEcon N.S.W., BHSc(Nursing), RMIHE, MStudEd, MCN N.S.W.
Suzanne Campbell, RN, BA N.E., Dip.NEd.
Mark Coleman, RN, DipTeach, MCN N.S.W.
Jane Cooper, RN, BA
Kerry Duggan, RN, BSc N.E.
Jennifer Fares, RN, DipNEd Armidale CAE
Margaret Gerry, RN, B.A. Syd.
Rhonda Griffiths, RN, BEd(Nurs) DiplNEd Armidale CAE
William Janes, RN, BA Macq., BHA N.S.W., DipNEd Cumb., FCN (N.S.W.)
Joy Marshall, RN, BA Armidale, DNE Cumb., MCN N.S.W.
Mary Martin, RN, BAAppSc(Nurs) WAIT
Tracey McDonald, RN, DipNEd Cumb. CAE., FCN (N.S.W.)
Lynne Newman, RN, BA, MA Syd., MCN N.S.W.
Irene Stein, RN, BA, DipNEd Cumb., FCN (N.S.W.)
Peter Thomas, RN, BSc Syd., GradDipEd(Sec) SCAE, MA
Margaret Wallace, RN, BA Macq.
Lynette Wheeler RN, BA, MCN N.S.W.

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Vice-Chancellor
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Deputy Vice-Chancellors
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Professor Peter D. Rousch, BA BEd Melb., PhD Wayne State, FACE, FAIM

Music Development Officer
David C. Vance, BA N.S.W., BMus Syd., LMusA

Internal Auditor
Martin Farrington, DipTeach A. Mackie C.A.E.

Secretary to the Vice-Chancellor
Halina Majer

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Kathleen M. Rozmeta, BA N.E., MEd Syd.

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Head
Bob Randall

UNIVERSITY SECRETARY'S DIVISION

University Secretary
Kenneth E. Baumber, BSc St.And.

Deputy University Secretary and Business Manager
James W. Langridge, BBus N.S.W.I.T., DipTertiaryEd N.E., MACS

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Peter G. Wood, BSc DipEd Syd.

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Administrative Assistant
Dianne Reh

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Officer-in-charge
Ian E. Lowe
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Administrative Officer
Graduate Assistants
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Lynn M. Woodley, BA DipEd N.S.W.
Administrative Assistant
Moira Bowman

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N.S.W.
Commerce — Miranda Baker, BA N.S.W.
Education — Vacant
Engineering — Maria Roberts, BA DipEd
Mathematical Sciences — Paul McGuire, BA N.E.,
Sciences GDipMus.Stud. Syd
Science — Patricia C. Macquarie, BA

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Co-ordinating Engineer
Meng San Wong, BE W.A., MICE, MIEAust, MIWES
Building Projects Co-ordinator
R. (Bob) Slater
Administrative Officer
Barry W. Lake, BA
Graduate Assistant
Yvonne D. Leach, BCom

Landscape Supervisor
Martin Bramston
Maintenance Supervisor
Eric J. Young

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Ian N. Strahan, GradDipMgt Capr., AASA(S), ACIS.

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Charles E.J. Ross, AASA, CPA
Administrative Assistant
Douglas G. Simpson

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Administrative Officer
C. Shah, BCom, AASA, CPA
Administrative Assistant
Geoff Bailey
Supply Officer
Mark A. Peacock, BA

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Nesbit Hindmarsh, AASA(5)
Administrative Officers
Alison Jane Hart, BCom, AASA
Administrative Assistant
Ian N. Strahan, GDipMgtCapr, AASA(5)

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Edwin G. Hyde, AASA

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Senior Personnel Officer
Chris Grange, BA
Salaries Officer
Bob Hogarth, AssDipAdmin
Safety Officer
Jeff Owers
Personnel Officers
Ross Sampson, Minst. AM, MAIES (General Staff Reclassification)
Ross M. Walker (Academic Staff)
Assistant Personnel Officer
Jenny J. Jarman
Industrial Officer
Peter Maywald
Staff Training Co-ordinator
Shirley E. Jorgensen

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Senior Administrative Officer
Harry H. Alla, BCom N.S.W.

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Graduate Assistant
Melda J. Moss, BA MStud Accy
Timetable Officer
Christopher Hadley
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Graduate Assistants
Marina Evans, BMath
Beatrice Henderson, BA
Administrative Assistant
Joanne Hickey

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Maxine Lacey, BA A.N.U., DipEd N.S.W., MA(School Administration) Macq.
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Patricia Webster, BA La Trobe, MA Macq., HDipTeach Melb., GDipCareers Rusden CAE
Accommodation Officer
Robyn Wilkes, BA N.E.

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Systems Analyst
Michael J. Rogers, BEc A.N.U.
Analyst/Programmers
Clive Foster, BE N.S.W.
Mark Hall
Rosalind Perry
Michel Ralphs
Programmers
Sue Claypole
James Meek
Michael Robinson
Computer Operator
Maree Hampstead
Data Entry Operator
Harry De Bruin

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Manager
Vacant

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Tricia J. McClure, BCom
Lily Soh, BSc N.S.W.

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Valri Nunn, Grad. Dip. Mgt

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Administrative Officer
Elisabeth A. Hilton, Dip PE Lond. I.F.
Administrative Assistants
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Felicity McGregor BA DipLib N.S.W. ALAA
Reader Services Librarian
Ruth Lotze, BA Macq.
Acquisitions Librarian
Jenny Ross, BA Syd., ALAA
Chief Cataloguer
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Curriculum Resources Librarian
Rosemarie Dowe, BA N.E., DipLib N.S.W., ALAA
On-Line Services Librarian
Mary Tow, BA Syd., ALAA
Loans Librarian
Neil Grant, BA Syd., DipLib N.S.W. and Monash
Reader Education Librarian
Margaret Dains, BA Melb., MA N.S.W., ALAA
Serials Librarian
Neil Cairns, BA N.E., DipLib Riv.
Systems Librarian
Vacant
Archivist
Annabel Lloyd, BA Adel., Dip IM (Arch. Admin.) N.S.W.
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Keith Gaymer, BA Syd., DipLib N.S.W., ALAA
Hanif Haniffa, BA Ceyl., DipLib Lond., ALA
Rod Higham, BA Riverina.
Deirdre Jewell, BA DipLib N.S.W.
Gwen D. McLellan, BEd Oregon, BA, ALAA
Saad Sefein, BA Cairo
Suzanne Seider, BA DipEd N.S.W.
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Deputy Computer Manager
James McKee, BSc, MBSC, MACS

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Helen Carter, Dip Teach
Kevin W. Knox
Jo-anne Lombardi

Senior Consultant
Ian Piper, BSc, MACM

Software Support
Helen Bow, BMath(CompSc)
Stephen Cliffe
Van Dao Mai, BA
John D. Oliver, PhD Carnegie Mellon
Jenny J. Richter
John S. Rickersey, BSc (Hons)

Operations Supervisor
Elwyn Walker

Operations
Paul Bezzina
Jim McKenzie

Data Control
Sharyn Wynen

Business Systems Analyst
Leo M.J. Wynen

Hardware Support Supervisor
James Giblin, BMath.

Hardware Support
Goran Andersson
Jeffrey Howell
Bruce Robertson
Richard Wilson
Geoffrey Silburn

Word Processing Development Officer

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Senior Technical Officers
Barry Robson

Photographer
Simone Rose

Graphic Designer
John B. Murray

Films Officer
Valma M. Roberts

CENTRE FOR TECHNOLOGY AND SOCIAL CHANGE

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Professor Ron Johnston, BSc NSW, PhD Manc

CENTRE FOR TRANSPORT POLICY ANALYSIS

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Br. Col. MCIT

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DipMath, MEngSci N.S.W., MCIT MIE(Aust).

Research Fellow
Sophia A. M. Everett, MA, PhD

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AUSTRALIAN COLLEGE FOR SENIORS

Education Director
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Business Manager
Ray Boniface, BCom

Administrative Assistant
Elizabeth Burgess

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Head
Vacant

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Deputy Head
Jann Counsell

Office Manager
Gary Graham

Cashier
Sandra Comerford

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Paul L. Manning, BEd Syd.

Recreation Centre Supervisor
Sharon Oxenbridge, BAppSci

Recreation Officer

Clubs and Financial Officer
Leonie Hinch

Facilities Officer
Teresa Burgess

TECHNOLOGY CENTRE

Managing Director
A. John Anderson, MCom N.S.W.

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General Manager
Ian Carter

Manager Research and Development
Peter Sophios

Manager-Course and Conference Services
Graham Frost

Co-ordinator
Anna Rousch

UNIVERSITY UNION

Secretary Manager
Noel Diffey, B.Bus Riv

Assistant Secretary Manager
Peter Bottele, BCom
FACILITIES AND SERVICES
MICHAEL BIRT LIBRARY

The University Library is named after the University's first Vice-Chancellor, Emeritus Professor L.M. Birt. The building was opened in 1976 and represents the initial two stages of a planned four-stage building. Building of stage three will be completed early in 1988.

The Library seeks to provide information resources for University personnel and members of the local community. To satisfy some of these requirements, the collection of monographs, serials, non-book materials and archival sources is continually augmented by purchase and donation. Access to information held in libraries throughout the world is possible through inter-library loan and computer database searching facilities.

Items from the collection may be borrowed subject to restrictions imposed to ensure the integrity of some types of material. All University of Wollongong staff, students and graduates may borrow from the collection. Graduates of the former Wollongong Teachers' College and the staff and students of institutions with reciprocal agreements may also borrow. Arrangements may be made for other persons to borrow from the Library subject to their satisfying the conditions imposed by the University.

Borrowing rights will be suspended when items are overdue from loan. Overdue items also attract fines. The use of inter-library loan 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 Reader Assistance desk in the Library.

Hours of opening from March to December are 8.30 a.m. to 10.00 p.m., Monday to Friday. Saturday, 9.00 a.m. to 5.00 p.m. and 1.00 p.m. to 5.00 p.m. Sunday. Summer session, public holidays and vacation hours are displayed on noticeboards in the Library.

UNIVERSITY UNION

The University Union commenced operations in 1964, and it was created to provide a "community centre" for the University community. The creation of opportunities for social and cultural development of the members is the central role of the Union, with incidental roles being food and beverage services, conference and meeting rooms, medical, dental and optometrical services, assistance to affiliated clubs and societies, a range of shops and other miscellaneous services.

Membership and Fees
All students have to pay annual fees to the Union, unless they are Life Members of the Union.

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

10 Union members (staff, student and life members)
4 University Council appointees
Secretary Manager
President, S.R.C.
President, Sports Association
1 Union Staff Member
2 Co-opted members

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 Secretary Manager is directly responsible to the Board as General Manager of the Union.

In the main Union complex, the following services are housed:

Food and Beverage
Cafeteria
Take-Away Bar
Bistro
Char Grill
Coffee Lounge
Healthy Lifestyle Self Service Cafeteria
Asian Kitchen and Take-Away Bar
Licensed Bar
University Club Lounge

Retailing
University Co-operative Bookshop
Union Mini Market

Financial
National Australia Bank
Illawarra Credit Union

General
Cinema/General Purpose Hall
Meeting and Conference Rooms

Legal
E.M. Lynch & Co., Solicitors

Hair Care
The Cutting Crew

Medical
General Practitioners
Optometrist
Dentist

Student Welfare
S.R.C. Offices
Student Services
- Counselling
- Careers Advice
- Accommodation Office

A satellite cafeteria called 'The Greenery' is situated adjacent to the new Administration Building.

The following Clubs and Societies are affiliated to, and supported by, the Union:
Asosiasi Pelajar Indonesia
Campus East Residents Association
Catholic Society
Association of Chinese Students
Croatian Society
Electrical and Computer Engineering Society
Film Group
Geological Society
International Chinese Students Association
II Circola Italiano
International House Residents Association
Kooroobong Residents Association
Malaysian Students Association
Mathematical Sciences Society
Simulation Games Society
South Pacific Students & Friends Society
S.T.S. Postgraduates Association
Student Life
Weerona Residents Association
Women's Collective
Writers Club

STUDENTS' REPRESENTATIVE COUNCIL
The Students’ Representative Council (S.R.C.) is a body elected by and from students. It is one of three organisations that required students to pay fees.

The S.R.C. is the student voice on campus. It promotes student welfare, education interests and activities. Increasingly, the S.R.C. is encouraging groups to set up on campus — typified by the S.R.C. Clubs & Societies which include:


The S.R.C. is involved in the campaign for better education and welfare conditions and facilities for the students.

In services the S.R.C. provides advice on Education & Welfare matter; offers travel, health and insurance schemes for students, operates a Food (Health) Co-op. and a (second hand bookshop) Book Bank. The S.R.C. also co-funds the Childcare Centre (Kids’ Unl.).

"Tertangala", is the University Student Newspaper. The S.R.C. publishes this newspaper monthly. Students are encouraged to participate in and contribute to this paper.

Finally, the S.R.C. maintains liaison with other bodies ranging from the University Administration to Community Groups and other campuses.

The S.R.C. belongs to the students; you are encouraged to use it.

RECREATION AND SPORTS ASSOCIATION

All students pay a compulsory fee which automatically makes them members of the Sports Association. Membership entitlements include the use of the recreational facilities provided by the Sports Association. Members may also join one or other of the constituent clubs of the Association at a small extra subscription.

The Sports Association aims to provide physical recreation facilities of an opportunity-type for individuals or small groups, through casual and class usage as well as intra-mural and inter-departmental sport. Learn to play activities and beginners coaching courses are held at various times throughout the year to cater for the novice as well as the expert. In addition, it aims to ensure that its constituent clubs are provided with adequate playing surfaces and associated equipment, that adequate funds are available to subsidise travelling, and that both clubs and individuals are encouraged to attain higher sporting standards through competitions, representative matches and championships organised by the Australian Universities Sports Association (A.U.S.A.).

The University Recreation Centre incorporating weights room, administration, sports store, sauna, multipurpose area and squash courts has been provided and improvements to existing playing fields are being undertaken. Sports catered for: Basketball, Badminton, Volleyball, Table Tennis, Tae Kwon Do, and Indoor Soccer. Artificial Grass Tennis Courts are available night and day. All facilities are available 7 days per week.

The constituent clubs of the Sports Association are as follows. Enquiries in respect of them should be made at the Sports Association Office:

| Athletics | Scuba Diving |
| Badminton | Sailing & Windsurfing |
| Basketball | Snow Skiing |
| Cricket | Squash |
| Men’s Hockey | Table Tennis |
| Women’s Hockey | Tae Kwon Do |
| Netball | Tennis |
| Rugby Union | Volleyball |
| Rugby League | |
| Kendo Fencing | |

CHAPLAINCY SERVICE

A Chaplaincy Service is provided within the University, for the benefit of students and staff. Its office is located near the Counselling Centre.

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 at their private addresses or through the University Secretary.
Anglican: Rev. R. Heslehurst,
4 Moore Street,
Gwynneville, 2500.
Telephone 288417, 295561
St. John’s Church,
Keiraville.

Baptist: Vacant

Congregational: Rev. C.G. Jones,
6 Carter’s Lane,
Towradgi, 2518
Telephone 843658

Jewish: Dr. Z. Kaye,
Shalom College,
University of New South
Wales,
P.O. Box 1,
Kensington. 2033
Phone: (02) 663-1366

Presbyterian: Rev. D.L. Ferrington,
St. Andrew’s Manse,
25 Stanbrook Avenue,
Mt. Osley, 2519
Telephone 261725 (office)
261458 (home)

Roman Catholic: Rev. Father Terry Gleeson,
Cathedral Presbytery,
36 Harbour Street,
Wollongong. 2500.
Telephone 286511.

Uniting: Rev. Tim Kelly,
11 Elizabeth Street,
Mangerton. 2500
Telephone 292117 (office)
293446 (home)

COUNSELLING SERVICE

Counsellors offer free and confidential counselling to members of the University community who want to talk through and change areas of difficulty, conflict, indecision or crisis in their lives.

Some things people often talk to a counsellor about are:

- I’m depressed and anxious about ...
- How can I make new friends? ...
- I want to become more confident and assertive ...
- I can’t get started with my essay ...
- I’m bored with my course. What can I do? ...
- I feel miserable now that he/she has gone ...
- My family wants me to ... I want to ...
- I’m not sure what to do with my life ...
- What do I do now I’ve failed? ...
- We’d like to be getting on better together ...

As well as individual counselling, group programmes, in (e.g.) stress management, asser-

tion training, preparing for university, are also run from time to time.

There are two counsellors ... Greg Hampton and Maxine Lacey. Appointments to see them can be made by telephoning the receptionist, Gayle Ford on 270445 or by calling in at the Counselling Service which is located in the Union Arcade. The Counselling Service is open during office hours; evening appointments can be arranged.

CAREERS AND APPOINTMENTS SERVICE

CAREERS ADVICE

A Careers and Appointments Service is located on the 1st Floor of the Union Arcade. Individual and group advice is given and a Careers Library is maintained.

CAMPUS INTERVIEWS

Campus Interview programmes are arranged in April, May and September. This provides the opportunity for employers to interview prospective graduate employees. Students should watch notice boards and make themselves aware of times of visits to the Campus.

CASUAL/PART-TIME EMPLOYMENT

The Careers and Appointments Service operates a Casual Employment Service and assists with Vacation Work. A notice-board outside the Counselling/Careers Reception area on the 1st floor of the Union Arcade, displays job vacancies. Registration for employment can be done through the receptionist and all positions available will be notified where possible. Students who are specially interested in tutoring should register early. Contact Gayle Ford on 270445.

The Careers & Appointments Officer is Patricia Webster and any further information can be obtained by phoning 270324.

ACCOMMODATION COLLEGIATE

The Halls

University Halls have traditionally offered students accommodation supportive of the student’s academic goals. The Halls may be thought of as offering accommodation with “extras”. They 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 Halls 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 Hall and on weekdays at breakfast, residents can make a sandwich lunch. Students must provide their own pillow, sheets and blankets. (These can be loaned to overseas students by the Halls for the first few weeks until the student has time to purchase them locally.) Individual student rooms are cleaned weekly. Laundries with washers, driers and exterior
clothes lines are supplied for students to do their own laundry. Computer Rooms in each house provide a variety of computer hardware for student use. The Residents' Association organizes social activities, maintains student kiosk and games room equipment and provides a selection of daily newspapers. On-site management of the Halls and pastoral care of the residents is provided by a professional staff during business hours, and by postgraduate house tutors after hours. House tutors also help organize Hall study groups and are available for informal academic assistance.

**International House**

Hindmarsh Avenue, North Wollongong, a 20 minute walk from campus, accommodates 200 students in single study/bedrooms. Accommodation is for a 40-week academic year, including recess periods. Accommodation with reduced services is also generally available throughout the December-February recess. This is sometimes an advantage for overseas students who wish to remain in residence during the long summer recess. Fees for 1989 are $3400, due in two equal instalments in February and July.

**Weerona**

12 Macquarie Street, a 20 minute walk from campus, accommodates 92 students; 30 in single study/bedrooms, and 62 in shared rooms (2 students to a room). Shared rooms are cheaper than single rooms.

Accommodation is for the academic session only (34 weeks: lecture weeks, study breaks and exam periods). Residents must vacate rooms completely during recess periods: 1 week in April, 2 weeks in July and 2 weeks in August, and over the summer recess (December-February) when rooms are made available to University conference visitors. Overseas students with relatives or friends in Sydney or in the local area with whom they plan to stay in recess periods will not be inconvenienced by this requirement. Those with no contacts in the local area may find this requirement a problem, and may wish to consider International House as a preference.

Fees for Weerona for 1989 are for a single room, and for a shared room. Both are payable in two equal instalments due in February and July.

**Beaton Park Leisure Centre** — a facility of Wollongong City Council — with a heated swimming pool, tennis and squash courts, basketball stadium and sports medicine clinic, is located next to Weerona.

**Admission to Halls of Residence**

The Halls of Residence are administered separately from non-collegiate accommodation by the Head and Deputy Head of Halls. Students wishing to live in the Halls of Residence as a first preference will ordinarily be interviewed by the Head of Halls, Cynthia Halloran, for International House, and by the Deputy Head of Halls, Jann Counsell, for Weerona. Inquiries about the Halls can be made directly to the Halls (042) 29 9711 or through the University Accommodation Officer. All applications are directed in the first instance to the Accommodations Officer.

**NON COLLEGIATE**

**Campus East**

Cowper Street, Fairy Meadow, is a 40 minute walk from campus (or one stop on the train and a 15 minute walk). Campus East accommodates 90 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. Provision is being made for recreation areas. Fees for Campus East for 1989 are $3,840* 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 100 students in 23 furnished houses and apartments. Residents of Kooloobong live independently in individual houses and apartments of 2-5 students, doing their own cooking and cleaning. Desk, bed, wardrobe, bookshelves in study/bedrooms; refrigerator, stove cooktop, microwave oven in the kitchen; 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 heaters 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 1989 are $2,800* payable in two equal instalments.

**Gundi**

Gipps Street, Wollongong, is a 40 minute walk from campus. The complex accommodates 39 residents, 35 in five 7-bedroom apartments and 4 in two 2-bedroom apartments. These are furnished similarly to Kooloobong. Fees for Gipps Street units for 1989 are $2,640*, payable in two equal instalments. Tenancy is for a 40-week period (academic including recesses).

The University has an Accommodation Officer who not only places students within the University's non-collegiate style accommodation, but assists students wishing to find private accommodation. The Accommodation Officer, Robyn Wilkes can be contacted by telephoning (042) 270351 from 9 am to 1 pm.

*New students will be required to pay for accommodation during their additional introductory week at University.
GENERAL
Private accommodation is readily available in the suburbs around the campus. With rooms costing approximately $50 per week, apartments from $80 per week, while house and condominium style apartments, which can be shared by several students, range between $150 and $250 per week, depending on size, style and location.

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.

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 modern centre provides a happy and stimulating atmosphere where children can stay while their parents are at class and/or work.
Fees are calculated on a sliding scale based on family income. Parent involvement in the daily activities is welcomed but not mandatory. The centre is open from 8.15 a.m. to 5.30 p.m. Monday to Friday. Kids' Uni. cares for children in the 0-6 year-old age group. After school care is available for older children and a School Vacation Program is also offered for school aged children. The Director is a qualified Early Childhood Education teacher and nurses are in attendance for children under two years of age. 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 to include sessional weeks, May and August vacations, study break and examinations.
For further information contact the Director, Jillian Trezise, C/- The Union or phone Kids' Uni, 270072. Applications forms and information sheets can be obtained from the centre.

FACILITIES FOR STUDENTS WITH DISABILITIES
The counsellors can provide information on the facilities available at the university for assisting students with disabilities. They can also provide advice on how particular disabilities affect university study.
A range of equipment for helping students with lecture note-taking and assignment writing is available for loan. Portable amplification systems are available for students with hearing impairments to use in lectures. In some circumstances students with hearing impairments or arm injuries can be provided with lecture note-taking assistance. Information on community resources is also available.
Students with disabilities are advised to contact the counsellors before the commence university. The counselling service is located on the second floor of the Union Arcade - phone 270445. Physical access is available through a stair inclinator or lift; please phone for advice on how to gain access.

N.S.W. TEACHER EDUCATION ADVISORY OFFICE (T.E.A.O.)
Information regarding correct undergraduate degree patterns for the purposes of teaching can be obtained from Jan Black, Professional Officer, Faculty of Education, 270078.

THE FRIENDS OF THE UNIVERSITY OF WOLLONGONG LIMITED
The Friends of the University of Wollongong was incorporated on 1st December, 1980.
Broadly the aims and objectives of the Friends are as follows:

1. Assist the Council of the University to preserve, develop and maintain the standard, position and facilities of the University.
2. Create opportunities for the University to attract and retain the continuing interest and financial support of a concerned and interested group of past students, friends, staff and members of the community generally.
3. Solicit donations and gifts to or for the benefit of the University.
4. Attract and encourage bequests, legacies and all forms of deferred gifts to the University or the Company.
5. Make donations to the University of such amounts and at such times as the Company may determine.

Membership is granted to graduates, students, parents, staff, industry, commerce, the unions, local government, the professions, the churches, commerce and industry, primary producers and citizens generally.
Membership is granted to people who express an intention to support the activities of the University or of the Friends. Support can be given in cash, in kind, or in service.
The Graduates Group within the Friends offers free membership for the first year and thereafter is $15 per annum or $100 for life membership.
For further information contact Mr. Giles Pickford on 270073.

WOLLONGONG UNIADVICE LIMITED
WUL is the consultancy arm for the University of Wollongong. As one of the member companies of the Australian Tertiary Institutions Consulting Companies Association, Uniadvice has links overseas and throughout all Australian states.
Uniadvice has Approved Research Institute status and it has the following objectives:

- To promote intellectual and physical resources for the benefit of the community and the University of Wollongong.
- To facilitate interaction between external organisations and the University at all levels.
- To encourage usage of developed expertise in consultancy work, materials testing, seminars, technical data and patents.

For further information contact the General Manager of Wollongong Uniadvice Ltd., Mr. Ian Carter, on (042) 270076.

THE ILLAWARRA REGIONAL INFORMATION SERVICE (I.R.I.S.)

The Illawarra Regional Information Service (I.R.I.S.) is located in University premises at 22 Porter Street, North Wollongong. I.R.I.S. is an autonomous body funded by the N.S.W. State Government, Wollongong City Council and the University as major sponsors and by Regional Councils, Commerce and Industry.

I.R.I.S. provides a range of information to assist both the social and economic development of the region. Students and academics are encouraged to make use of the information available.

I.R.I.S. have completed a number of studies on the region and these, together with our publications, are available for sale or perusal at our offices.

For further information contact Mr. John McKenna, the Director. Telephone 294777 or 270787.

ARMY RESERVE UNIT

The University of Wollongong Company of the University of New South Wales Regiment (UNSWR) is an Army Reserve unit with the primary role of officer training for the Reserve. Enlistment is voluntary, and is open to male or female students. The Regiment parades on a Wednesday evening, and the training schedule is designed to avoid clashes with the study requirements of the academic year. Officer Training provides training in decision making, management and organisation. Further enquiries should be made to University of Wollongong Coy, UNSWR, Military Road, Port Kembla. Phone 74 1861.
STUDENT CHARGES

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

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

Compulsory Charges

In 1988 all registered students will be required to pay:

University Union† — entrance charge
(at first enrolment) ........................................ $25
Sports Association† — entrance charge
(at first enrolment) ........................................ $10

Student Activities charges:

University Union† — annual subscription .................. $123*
Sports Association† — annual subscription ................. $52*
Students' Representative Council
annual subscription ......................................... $22*

Certain categories of students such as overseas students enrolling on a full fee paying basis and some postgraduate award holders are exempted from the charge. Beneficiaries under the AUSTUDY will be reimbursed through the student allowance arrangements.

Exemption from payment of fees will be granted in certain circumstances:
Exemption from payment of fees for the University Union will be granted to life members of the Union.

Exemption from payment of fees for the Sports Association will be granted to life members of the Sports Association.

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

University Union annual subscription fees External Students:
External Students............................................. $30*
External Students (Illawarra Region)......................... $55*

Sports Association fee for External Students:
Illawarra Region............................................. $26
Non-Illawarra Region ........................................ $15

Other Charges

Application fee to amend academic record.......................... $40*
* Teacher Education (Bridging and Conversion Courses)

Parking Charges (per Annum)
— Staff ......................................................... $55
— Student ...................................................... $20

New Students

All new students shall be required to attend the enrolment centre and pay all charges on the date shown on their letter of offer.

Re-enrolling Undergraduate and Postgraduate students —

Failure to re-enrol by the prescribed date — Charge.................. $20*

Where charges have not been paid prior to the commencement of Session 1, the following additional charges will apply:

Charges paid during the first two weeks of session 1........................ $20*
Charges paid subsequent to the second week of session 1.................. $30*

Note: Payment of charges subsequent to the second week of session 1 will only be accepted with the express approval of the University Secretary or the Senior Assistant Secretary (Student Services) or the Assistant Secretary (Academic Services).

Student's Association fees
— Entrance Fee............................................. $4
— Annual Membership Fee ......................... $29

Withdrawal

1. Students withdrawing from a course are required to notify the University Secretary in writing.
2. Where notice of withdrawal from a course is received by the University Secretary before the first day of Session 1 a refund of all charges paid will be made.
3. On notice of withdrawal on or after the first day of Session 1 and prior to the end of the fourth week of Session 1, A FULL REFUND OF STUDENT ACTIVITIES CHARGES, OTHER THAN ENTRANCE CHARGES, WILL BE MADE BUT THEREAFTER NO

† Life members of these bodies are exempt from the appropriate charge or charges. See section on exemption from payment of fees.
* Currently under review
REFUND WILL BE MADE, EXCEPT AS PROVIDED FOR IN SECTION 4 BELOW. Student activities charges are listed on the previous page.

4. If a student's initial enrolment in any year is made at the commencement of Session 2 for Session 2 only and the student gives notice of withdrawal prior to the end of the fourth week of Session 2, a full refund of student activities charges, other than entrance charges will be made but thereafter no refund will be made.

5. Late charges are not refundable.

6. The Higher Education Administrative Charge is not refundable after the prescribed date nominated by the Government.

Extension of Time
Any student who is unable to pay charges by the due date may apply in writing to the University Secretary for an extension of time. Such applications must state clearly and fully the reasons why payment cannot be made and the extension sought, and must be lodged before the date on which a late fee becomes payable. Normally the maximum extension of time for payment of charges is until the end of the fourth week of Session 1.

Assisted Students
Scholarship holders or Sponsored Students who have not received an enrolment voucher or appropriate letter of authority from their sponsor at the time when they are enrolling should complete their enrolment paying their own charges. A refund of charges will be made when the enrolment voucher or letter of authority is subsequently lodged with the Cashier.

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

In very special cases the University Secretary may grant exemption from the disqualification referred to above upon receipt of a written statement setting out all relevant circumstances.

Cashier's Hours
The Cashier's office is open for the payment of charges from 9.30 a.m. to 4.30 p.m., Monday to Friday. The Cashier's office may be open for additional periods during enrolment. Details of these additional times may be obtained from notices posted at the Cashier's office.
GENERAL INFORMATION

STUDENT PROCEDURES

General Conduct
Acceptance as a member of the University implies an undertaking on the part of the student to observe the regulations, by-laws and other requirements of the University, in accordance with the declaration signed at the time of the enrolment.

Smoking is not permitted during lectures, in examination rooms or in the University Library. Gambling is also forbidden.

Members of the academic staff of the University, senior administrative officers, and other persons authorised for the purpose, have authority, and it is their duty to check and report on disorderly or improper conduct or any breach of regulations occurring in the University.

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

Indebtedness to the University includes the non-payment of charges, late charges, library fines, parking fines, the non-payment of student loans and any arrears in rent or other financial obligations resulting from an accommodation agreement entered into with the University.

In very special cases the University Secretary may grant exemption from the disqualification referred to in the preceding paragraph upon receipt of a written statement setting out all the relevant circumstances.

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

Change of Name by Marriage or Deed Poll
All records held, and statements issued by the University will be in the name given by students at the time of their admission to the University.

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

Lost Property
Enquiries concerning lost property should be made to the Student Enquiries Office and the Union Office.

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

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

Students' Travelling Concession Passes
The various transport authorities provide fare concessions for certain classes of students.

Application forms for these concessions may be obtained from the student Enquiries Office, Ground Floor, Administration Building.

Train:
Identification cards issued by the Railways of Australia are available to 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.

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

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

The card must be presented when varying enrolment, when attending examinations and collecting examination results, when applying for travel concessions and when notifying a change of address.

Students who lose their identification card must notify the University Secretary as soon as possible.

All students will be issued with an Identification Card as soon as possible after enrolment. In the meantime, the receipt form issued at the time of enrolment should be carried during attendance at the University and shown on request. If the identification card is not received within six
weeks of enrolment the student Enquiries Office should be advised.

**Application of Rules**

Any student who requires information on the application of the rules or any service which the University offers, may make enquiries at the Student Enquiries Office.
EXAMINATIONS
Formal University examinations may take place at the end of each session. Timetables showing time and place at which individual examinations will be held are posted on notice boards. Mis-reading of the timetable is not an acceptable ex-cuse for failure to attend an examination. Session 1 examination results are posted to the session addresses of students. Session 2 and Summer Session examination results are posted to the home addresses of students. No informa-tion concerning examinations or results will be given by telephone.

Rules and Procedures for the Conduct of Examinations
(a) Candidates are required to obey any in-struction given by an examination supervi-sor for the proper conduct of the examina-tion.
(b) Candidates are required to be in their places in the examination room not less than ten minutes before the time of com-mencement.
(c) No bag, writing paper, blotting paper, manuscript or book, other than a specified material, is to be brought into the examin-ation room.
(d) No candidate shall be admitted to an examination after thirty minutes from the time of commencement of the examina-tion.
(e) Candidates shall not be permitted to leave the examination room before the expiry of thirty minutes from the time the examin-ation commences.
(f) Candidates shall not be re-admitted to the examination room after leaving it unless during the full period of the absence there has been approved supervision.
(g) Candidates shall not by any improper means obtain, or endeavour to obtain, as-sistance in their work, give, or endeavour to give, assistance to any other candidate, or commit any breach of good order.
(h) Smoking is not permitted during the course of examinations.
(i) All answers must be in English unless otherwise directed. Foreign students who have the written approval of the Examinations Office may use standard translation dictionaries.
(j) A candidate who commits any infringe-ment of the rules governing examinations is liable to disqualification at the particular examination, to immediate expulsion from the examination room, and to such further penalty as may be determined in accord-ance with the By-Laws.

Identification Cards (Examinations)
Students are required to have their identification cards available for each examination for identifi-cation 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 be-yond their control are required to make a written statement to the University Secretary. This statement together with any supporting evi-dence will be considered by the Departmental Head who has the authority to take whatever ac-tion is deemed appropriate in determining the students' overall results.

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:
   (i) received a 'FAIL' grade for a subject for which you were formally enrolled, but did not attempt; or
   (ii) 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. The University Council has determined that any such application must be accompanied by a charge of $40. The charge will be refunded in cases where an error has been made by the University. Applications must also be accompanied by a letter giving relevant details.

Students should note that an academic record will be amended in special circumstances only and that payment of the $40 application fee will not guarantee that an academic record will be amended.

Application must be made to the Student En-quiry Office no later than two weeks after the release of examination results.

2. Late Withdrawal
If you withdraw from a sessional subject after the eighth week of session or from an annual sub-ject after the first week of second session, you will be awarded a grade of 'FAIL'. However, if there are medical, compassionate or other accep-table reasons for the late withdrawal, the de-gree and diploma regulations allow for you to ap-ply to have the 'FAIL' amended to 'DISCON-TINUED'.

Applications for such amendments may be made at the Student Enquiry Office and need to be supported by appropriate documentary evi-dence. No charge is applicable if the application is made prior to the release of examination re-sults; after this time, a $40.00 charge applies. Applications must be made no later than two weeks after the release of examination results.
3. Reassessment of Grade
If you feel that the 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 grade, you should approach the lecturer(s) concerned to discuss the matter. If, after this discussion, you feel the 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 grade is not correct, you may write to the Dean of the Faculty, setting out the reasons you believe the 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.

Finally, if you believe there has been a lack of due process in the reassessment procedure outlined above, you may appeal, within two weeks of receiving the response from the Dean, to the Academic Review Committee to review the matter. The letter of appeal must state fully the reasons for your appeal and include any relevant documentary evidence to support your appeal. Please note, however, that the Committee’s role is to ensure that due process has been followed — the Committee’s role is not to reassess the academic quality of the work.

TERMINATING PASSES
The award of the grade of terminating pass will prohibit a student progressing to the next subject in a sequence for which the subject in which the terminating pass is awarded, is a prerequisite. However, students are not prevented from repeating a subject for which a terminating pass has been awarded.

APPLICATION FOR ADMISSION TO A DEGREE OR DIPLOMA
Applications for admission to a degree or diploma must be made on the appropriate form and by the due date after each session. It is the student’s responsibility to make an application to have the degree or diploma conferred.

Each student who completes the requirements for the award of a degree or diploma at the time the examination results are published will have that degree or diploma conferred at the next appropriate ceremony unless a specific application is made to the University Secretary not to have the award conferred.

Graduation Ceremonies are usually held twice a year. Information about each ceremony is sent to the last known address of each graduand.
POSTGRADUATE ADMISSION, ENROLMENT AND RE-ENROLMENT

ADMISSION

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

Applicants seeking admission to 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 31st 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 Session 1, except with express approval of the University Secretary or the Assistant Secretary (Academic Services) and of 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 will not be accepted after the end of the second week of Session 1, except with the approval of the Head of the appropriate Department/School. Persons re-enrolling after the end of the fourth week of Session 1 can do so only in exceptional circumstances and must have, in addition to the approval of the Head of the appropriate Department/School, the express approval of the University Secretary or the Assistant Secretary (Academic Services).

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 Session 1, 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 on the appropriate form, obtainable from the 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 Session 1 (in the case of Session 1 and annual subjects) or after the second week of Session 2 (in the case of Session 2 subjects) the approval of the Head of the Department/School offering the new subject must be obtained.

To avoid having withdrawn subjects shown on their academic records students intending to withdraw from single sessions 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 Session 2.

NON-AWARD SUBJECT ENROLMENTS

A person wishing to enrol in non-award postgraduate (900-level) 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. Only in exceptional cases will subjects taken in this way count towards a degree or diploma.
Application forms can be obtained by written application to the University Secretary or from the Enquiries Office, Ground Floor, Administration Building. Application forms should be received by the University Secretary by 31st January, in the year in which enrolment is desired.

ADVANCED STANDING

Students enrolling for courses may seek advanced standing on the basis of tertiary studies completed prior to their enrolment at the University of Wollongong. Studies undertaken at other universities, at colleges of advanced education and technical colleges may be considered for advanced standing.

Applications for advanced standing must be accompanied by full documentation of previous studies, viz. photocopies of the relevant pages from the Handbook/Calendar of the institution concerned and a certified transcript.
POSTGRADUATE SCHOLARSHIPS

UNIVERSITY POSTGRADUATE AWARDS

Each year the University provides a number of scholarships for full-time postgraduate study in any approved field.

These awards are available to graduates of Australian and overseas universities.

Awards are tenable for one year and, subject to satisfactory progress, may be renewed annually to provide a maximum tenure of two years in the case of a scholar registered for the degree of Honours Masters. In the case of a scholar registered for the degree of Doctor of Philosophy, the award is tenable for up to a maximum of three years, but an extension for one year may be granted if special circumstances apply.

Stipend is $7,000 per annum with a dependant's allowance at the rate of $2,400 for dependent spouse and $550 for each child. There is also provision for establishment, travel, incidentals and thesis allowance.

The closing date for applications is 31 October.

AUSTRALIAN GOVERNMENT POSTGRADUATE RESEARCH AWARDS

A number of Australian Government Postgraduate Research Awards are available to students undertaking full-time postgraduate research at the University, leading to the degree of Honours Master and/or PhD.

Persons permanently domiciled in Australia and who are University graduates or will graduate in the current academic year, are eligible for the awards.

Applicants should hold, or expect to obtain, at least an upper division second class honours degree of its equivalent.

Awards are tenable for one year and, subject to satisfactory progress, may be renewed annually to provide a maximum

tenure of two years in the case of a scholar registered for the degree of Honours Master. In the case of a scholar registered for the degree of Doctor of Philosophy the award is tenable for up to a maximum of three years, but an extension for one year may be granted if special circumstances apply.

Eligible students receive a stipend ($8,126 p.a. in 1987). There is also provision for dependents, establishment, travel, incidentals and thesis allowances. All allowances except travelling and establishment allowances are taxable.

A special supplementary payment will be made to compensate award holders for the new administration charge on higher education students.

The closing date for applications is 31st October.

AUSTRALIAN GOVERNMENT POSTGRADUATE COURSE AWARDS

A number of awards for full-time postgraduate study leading to the degree of Masters by formal coursework are also made available by the Australian Government.

Persons permanently domiciled in Australia and who are University graduates or will graduate in the current academic year, are eligible for the awards.

Applicants are expected to have an undergraduate record at better than pass level.

Stipend and allowances are as for the Australian Government Postgraduate Research Awards. (See above).

Applications close on 30th September.

APPLICATIONS AND ENQUIRIES

Application forms for postgraduate awards are available from the University and must be lodged with the University Secretary by the specified date.

Separate application for registration as a higher degree candidate should be made
on the appropriate form, in accordance with conditions applying to the particular degree.

Further enquiries may be directed to the Enquiries Office, Ground Floor, Administration Building (telephone (042) 270927).
CONDITIONS OF UNIVERSITY POSTGRADUATE AWARDS

University Postgraduate Awards are tenable at the University for full-time study leading to an Honours Master's degree by research only or a Ph.D.

DURATION OF AWARD

The maximum period for which an award may be held is determined by the degree in which the candidate is enrolled, as follows:

a) A candidate for an Honours Master's degree may hold an award for a period not in excess of two years from the commencement of studies.

b) A Ph.D. candidate may hold an award for three years from commencement of studies. An extension for a fourth year may be granted if special circumstances apply.

c) Payments under the award will cease on the date of submission of the thesis.

RENEWAL

Awards are renewable annually. Applications for renewal for a fourth year (in the case of Ph.D. candidates) will be treated as special cases.

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 about October each year.

RECREATION LEAVE

Scholars may be granted recreation leave of up to four weeks annually at the discretion of the University.

LEAVE OF ABSENCE

Scholars are required to pursue their studies on a full-time basis. Absence from studies should be reported by the scholar to the supervisor, as soon as possible, and approval of the Graduate Studies Committee sought.

INTERRUPTION

When a scholar's progress is likely to be adversely affected due to absence from studies, the award may be interrupted. During the period of interruption the scholar will not be entitled to receive any benefits from the award. When the student is fit to resume studies he or she may apply for restoration of benefits and may have the period of the interruption added to the normal time for which the award may be held. Interruptions will not in general exceed twelve months.

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 University Secretary that he or she is able to resume full-time study.

OVERSEAS STUDY

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

a) the period abroad will not exceed twelve months;

b) adequate supervision of the scholar's research program abroad has been arranged by the University before departure;

c) the scholar will remain enrolled at the University;

d) the scholar will return to Australia to complete research program immediately following the completion of study abroad; and

e) the period of overseas study will be credited towards the scholar's degree or research program at the University.

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

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

EMPLOYMENT
Scholars may with the approval of their supervisors, engage in a limited amount of paid part-time teaching or demonstrating provided that such employment does not interfere with their study program. Generally the employment should not exceed six hours in any one week, or a total of 180 hours in a year.

TRANSFER
The scholarship is not transferable to another University.

SICK LEAVE
Students who are temporarily unable to continue their studies because of illness should consult Administration to discuss special provisions that apply in certain circumstances.

BENEFITS
Stipend: From 1st January, 1986, scholars will receive a stipend at the rate of $7,000 per annum which will be paid fortnightly. Payment of stipend will be calculated from the date of commencement of study.

Dependants' Allowance: Married scholars will receive a dependants' allowance (paid fortnightly) at the rate of $2,400 per annum for a dependent spouse, and a further $550 per annum for each child. Award holders are exempt from the new $250 Administration charge.

Travel Allowance: A Travel Allowance (equivalent to a tourist air fare where appropriate) may be paid for a scholar who is obliged to move residence from one Australian city to Wollongong in order to take up the award. Travel allowance is also payable for dependants.

Establishment Allowance: An allowance of $200 will be paid to married scholars, and $150 to single scholars, who are required to move from another city (including overseas) to Wollongong in order to take up the award. The establishment allowance is intended to assist scholars with removal expenses and with the expenses of setting up new quarters.

Thesis Allowance: A scholar may claim reimbursement for an amount of up to $400 to assist with costs for a Ph.D. thesis and up to $250 for a Master's thesis.

Incidentals Allowance: An incidentals allowance of $100 will be paid to assist students in meeting the cost of fees such as Students' Representative Council, Union and sports fees.

RELINQUISHMENT
Scholars are required to give the University Secretary at least twenty-one days notice of their intention to relinquish their awards (e.g. on completion of studies, discontinuation of research, etc.)

TERMINATION OF AWARDS
Awards may be terminated at the discretion of the University.
GRADUATE DEGREE AND GRADUATE DIPLOMA REGULATIONS

INTERPRETATION

1. In the interpretation and implementation of Graduate Degree and Graduate Diploma Regulations Council will normally act on the recommendation of the appropriate bodies of the University.

2. In the Graduate Degree and Graduate Diploma Regulations, unless the contrary appears:

   (1) 'candidate' is a person registered for a higher degree or graduate diploma;

   (2) 'course' is the combination of subjects which a candidate takes for a degree or diploma;

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

   (4) 'session' is one of the three periods (summer session, session 1, session 2) within which subjects are offered each year;

   (5) 'subject' is a self-contained section of study identified by a unique number in one of the Schedules of Subjects;

   (6) 'credit point' is a value attached to a subject as a component of a course;

   (7) '100 level subject' is a subject at first year level, '200 level subject' is a subject at second year level, '300 level subject' is a subject at third year level, '400 level subject' is a subject at fourth year level, '800 and 900 level subjects' are subjects at graduate level.

   (8) 'head of the academic unit' means head of the relevant Department, School or Centre;

   (9) 'major study' is an approved combination of 300-level subjects with a value of at least 24 credit points;

   (10) 'course co-ordinator' is a person appointed by Council to advise coursework candidates on programmes and courses of study;

   (11) 'supervisor' is a person appointed by Council to supervise the thesis work of a candidate;

   (12) 'thesis' and 'minor thesis' include theses which have a value of not less than 24 credit points; the thesis for the Doctor of Creative Arts may take a variety of forms including: photographic records of art portfolios, literally publications, musical compositions or recordings;

   (13) 'approved' or 'approval' means approval by Council;

   (14) 'advanced standing' is the standing of a candidate as a consequence of the granting of credit or exemption;

   (15) 'credit' is the number of credit points granted towards a degree for work satisfactorily completed outside the degree;

   (16) 'specified credit' is credit for a specific subject or subjects listed in one of the Schedules and is granted on the basis of satisfactory completion of a substantially corresponding subject or subjects at an approved university or other tertiary institution;

   (17) 'unspecified credit' is credit granted on the basis of satisfactory completion at an
approved university or other tertiary institution of a subject or subjects not substantially corresponding to subjects listed in the appropriate Schedule;

(18) 'exemption' is the waiving of the requirement that a subject prescribed for a degree be satisfactorily completed and is granted on the basis of the satisfactory completion of an appropriate subject, subjects or other work at an approved university, or other institution or other establishment;

(19) 'leave of absence' is a period of leave from the University for which prior approval has been obtained;

(20) 'full-time candidate' is a candidate who devotes substantially full-time to study for a higher degree or graduate diploma;

(21) 'part-time candidate' is a candidate who devotes substantially less than full-time to study for a higher degree or graduate diploma;

(22) 'external candidate' is a candidate enrolled in a higher degree or graduate diploma which has been approved for offer in an external mode; and

(23) 'study' is the work carried out by research or other means for a doctorate degree other than a doctorate degree by publication.
GRADUATE DIPLOMA REGULATIONS

NOTE: For candidates enrolled in the Graduate Diplomas in Business Information Systems, Coal Geology, European Studies, Geography, Peace & War Studies, Philosophy, Public Works Engineering, Science & Technology Studies and Sociology prior to 1989 the appropriate diploma regulations are contained in Volume III of the 1988 Calendar.

PRELIMINARY

1. These Regulations may be cited as the 'Graduate Diploma Regulations'.

2. These Regulations control courses of study leading to the Graduate Diploma (GDip) which shall be available in the specializations:
   - Arts
   - Commerce
   - Computing Science
   - Education
   - Educational Studies
   - Engineering
   - Science

COMMENCEMENT

3. These Regulations came into effect on 1 January, 1987.

APPLICATION FOR REGISTRATION

4. An application for registration as a candidate for the Graduate Diploma shall be made on the prescribed form which should be lodged with the University Secretary by the first working day in November of the year prior to the year in which admission is sought save that the University Secretary may vary the date as circumstances determine.

QUALIFICATION REQUIREMENTS

5. (1) An applicant for registration for the Graduate Diploma shall have qualified for a degree of the University or possess an equivalent qualification from another approved institution.

   (2) (a) In appropriate circumstances, an applicant who does not qualify for registration under Regulation 5(1) may be permitted to register for the Graduate Diploma provided that the applicant submits evidence of such tertiary academic and professional attainments as may be approved.

   (b) In the case of an applicant for registration for the Graduate Diploma with the specialization in Educational Studies, a three year teaching diploma or an equivalent qualification from an approved institution and at least one year, or the equivalent, of successful professional experience shall be regarded as appropriate tertiary academic and professional attainments for registration purposes.

   (c) In the case of an applicant for registration for the Graduate Diplomas in Science with the specializations in Community Health or Mental Health, a recognised three year health professions diploma or an equivalent qualification from an approved institution in addition to at least one year, or the equivalent, of successful professional experience shall be regarded as appropriate tertiary academic and professional attainments for registration purposes.

   (3) Notwithstanding any other provisions of these conditions, Council may require an applicant to demonstrate fitness for candidature by carrying out such work and satisfactorily completing such examinations as it may determine.

REGISTRATION

6. (1) A person admitted as a candidate for the Graduate Diploma shall register as a:
(a) full-time candidate; or
(b) part-time candidate; or
(c) external candidate.

(2) The three types of candidature may not be available for all specializations listed in Regulation 2.

(3) At the end of a session a candidate may apply to Council to transfer registration from one type of candidature to another if available for the specialization of study.

TIME LIMITS

7. (1) A full-time candidate may not, without approval, continue to be registered for the Graduate Diploma for more than four consecutive sessions, not including summer sessions, from the date of initial registration.

(2) A part-time candidate or external candidate may not, without approval, continue to be registered for the Graduate Diploma for more than eight consecutive sessions, not including summer sessions, from the date of initial registration.

(3) A candidate who changes from one type of candidature to another pursuant to Regulation 6(3) shall be subject to time limits determined by Council.

CONCURRENT STUDIES

8. Except with prior approval, a candidate shall not be registered concurrently for the Graduate Diploma and any other degree, diploma or certificate in the University or other tertiary institution.

CHARGES

9. A candidate shall be required to pay such charges as may be determined from time to time by Council.

COURSE REQUIREMENTS

10. (1) A candidate shall undertake an approved course recommended by the Head of the appropriate academic unit.

(2) The course shall comprise subjects with a value of not less than 48 credit points selected from the Schedule of Graduate Subjects following these Regulations or the Schedules in Attachment C following the Bachelor Degree Regulations.

(3) (a) To qualify for the award of the Graduate Diploma a candidate must accrue the required number of credit points by satisfactory completion of subjects comprising the course referred to in Regulation 10(1).

(b) Except with approval, a candidate may not accrue credit points for a subject which is substantially similar to a subject already counted for another qualification of the University.

(4) Any material presented by a candidate for assessment

(a) must be the work of the candidate, unless otherwise permitted by the Head of the appropriate academic unit; and

(b) must not have been submitted to meet requirements for any other academic award(s).

VARIATION OF ENROLMENT

10A.(1) After consultation with the Head of the Academic Unit a candidate may withdraw from a subject by notifying the University Secretary.

(2) Where a variation referred to in Regulation 10A(1) is the withdrawal from a summer session subject before the end of the third week of the summer
session, a sessional subject before the end of the eighth week, excluding session breaks, of the session of offer, or from an annual subject before the end of the first week of session 2 the candidate shall be deemed to have not enrolled in that subject.

(3) Where a variation referred to in Regulation 10A(1) is the withdrawal from a summer session subject after the end of the third week of session, a sessional subject after the end of the eighth week, excluding session breaks, of session of offer, or from an annual subject after the end of the first week of session 2 the candidate shall be deemed to have failed that subject unless withdrawal is for medical, compassionate or other reason acceptable to the Council. In this latter case the candidate will be deemed to have discontinued the subject without penalty for the purposes of Regulation 10B.

(4) After consultation with the Head of the Academic Unit a candidate may apply to the University Secretary for permission to enrol in an additional subject for a programme.

(5) Except with the approval of the Head of the Academic Unit, a candidate may not enrol in a summer session subject after the expiration of the first week of the summer session, a sessional subject after the expiration of the first two weeks in the session of offer or in an annual subject after the expiration of the first two weeks of session 1.

MINIMUM RATE OF PROGRESS

10B.(1) Candidates are required, in the academic year including the preceding summer session, to accrue credit for at least half of the subjects in which the candidate has enrolled.

(2) Except with the approval of Council, a candidate who fails to meet the requirement set out in 10B(1) may not enrol in the programme.

LEAVE OF ABSENCE

11. Subject to these Regulations, a candidate may be granted leave of absence for up to one year by the University Secretary on receipt of a written application; applications for leave of absence for more than one year shall be determined by Council.

AWARD OF GRADUATE DIPLOMA

12. The Graduate Diploma as prescribed in Regulation 2 may be awarded by Council upon a candidate who has complied with these Regulations.

MISCELLANEOUS

13. General Saving Clause

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

14. Application for Amending Regulations

If an amendment relating to courses that may be taken for the Graduate Diploma is made to these Regulations after implementation of them, the amendment shall not apply to a candidate who, before the making of the amendment, satisfactorily completed subjects having a value of 12 credit points unless

(a) the candidate accepts the application of the amendment and submits to Council proposed course alterations that are deemed by Council to be in accordance with the Regulations; or

(b) Council determines otherwise.
15. Appeal

A candidate may appeal against any decision made under the Regulations; such appeal should be lodged with the University Secretary within two weeks of notification to the candidate of the decision referred to in this Regulation.
GRADUATE DEGREE AND DIPLOMA REGULATIONS

MASTERS DEGREE REGULATIONS

NOTE: For candidates enrolled in Master of Studies degrees and in the MAccy, MCH and MComp degrees prior to 1989 the appropriate degree regulations are contained in Volume III of the 1988 Calendar.

PRELIMINARY

1. These Regulations may be cited as the 'Masters Degree Regulations'.

2. These Regulations control courses of study leading to the Master degree of:
   - Master of Arts (MA)
   - Master of Business Administration (MBA)
   - Master of Commerce (MCom)
   - Master of Creative Arts (MCA)
   - Master of Education (MEd)
   - Master of Policy (MPol)
   - Master of Science (MSc)

COMMENCEMENT

3. These Regulations came into effect on 1 January, 1987.

APPLICATION FOR REGISTRATION

4. An application for registration as a candidate for a degree of Master shall be made on the prescribed form which should be lodged with the University Secretary by the first working day in November of the year prior to the year in which admission is sought save that the University Secretary may vary the date as circumstances determine.

QUALIFICATION REQUIREMENTS

5. (1) An applicant for registration for a degree of Master shall have qualified for a degree of the University or possess an equivalent qualification from another approved institution.
   
   (2) In appropriate circumstances, an applicant who does not qualify for registration under Regulation 5(1) may be permitted to register for a degree of Master provided that the applicant submits evidence of such tertiary academic and professional attainments as may be approved.
   
   (3) Notwithstanding any other provisions of these conditions, Council may require an applicant to demonstrate fitness for candidature by carrying out such work and satisfactorily completing such examinations as it may determine.

REGISTRATION

6. (1) A person admitted as a candidate for a degree of Master shall register as a:
   
   (a) full-time candidate; or
   
   (b) part-time candidate.
   
   (2) The two types of candidature may not be available for all degrees in Regulation 2.
   
   (3) At the end of a session a candidate may apply to Council to transfer registration from one type of candidature to the other if available for the specialization of study.

TIME LIMITS

7. (1) A candidate admitted under Regulation 10(2) and:
   
   (a) registered as a full-time candidate may not, without approval, continue to be registered for a degree of Master for more than four consecutive sessions, not including summer sessions, from the date of initial registration; or
   
   (b) registered as a part-time candidate may not, without approval, continue to be registered for a degree of Master for more than eight consecutive sessions, not including summer sessions, from the date of initial registration.
(2) A candidate admitted under Regulations 10(3) or 10(5) and;

(a) registered as a full-time candidate may not, without approval, continue to be registered for a degree of Master for more than six consecutive sessions, not including summer sessions, from the date of initial registration; or

(b) registered as a part-time candidate may not, without approval, continue to be registered for a degree of Master for more than twelve consecutive sessions, not including summer sessions, from the date of initial registration.

(3) A candidate admitted under Regulation 10(4), or who changes from one type of candidature to the other pursuant to Regulation 6(3), shall be subject to time limits determined by Council.

CONCURRENT STUDIES

8. Except with prior approval, a candidate shall not be registered concurrently for a degree of a Master and any other degree, diploma or certificate in the University or other tertiary institution.

CHARGES

9. A candidate shall be required to pay such charges as may be determined from time to time by Council.

COURSE REQUIREMENTS

10. (1) A candidate for a degree of Master shall undertake an approved course recommended by the Head of the relevant academic unit.

(2) For a candidate who has completed a relevant major study or approved work equivalent to a relevant major study either as part of a completed degree of bachelor or in addition to a completed degree of bachelor, the course shall comprise subjects having a value of at least 48 credit points selected from the Schedule of Graduate Subjects following these Regulations.

(3) For a candidate who has completed a degree of bachelor, or approved equivalent qualification, which does not include a relevant major study or the equivalent thereof, the course shall comprise subjects having a value of at least 72 credit points of which:

(a) subjects having a value of at least 48 credit points shall be selected from the Schedule of Graduate Subjects following these Regulations, and

(b) subjects having a value of no more than 24 credit points shall be 300-level or 400-level subjects listed in one or more of the Schedules in Attachment C following the Bachelor Degree Regulations.

(4) A candidate referred to in Regulation 10(3) who has, in addition, completed approved work equivalent to a relevant major study may be granted up to 24 credit points of advanced standing in respect of the subjects referred to in Regulation 10(3)(b).

(5) For a candidate for the degrees of MBA and MSc (Technical Administration) the course shall comprise subjects having a value of at least 96 credit points and listed in the Schedule of Graduate Subjects following these Regulations.
(6) (a) To qualify for a degree of Master a candidate must accrue the required number of credit points by satisfactory completion of subjects comprising the course referred to in Regulation 10(1).

(b) Except with approval, a candidate may not accrue credit points for a subject which is substantially similar to a subject already counted for another qualification of the University.

(7) Any material presented by a candidate for assessment

(a) must be the work of the candidate, unless otherwise permitted by the Head of the appropriate academic unit; and

(b) must not have been submitted to meet requirements for any other academic award(s).

VARIATION OF ENROLMENT

10A. (1) After consultation with the Head of the Academic Unit a candidate may withdraw from a subject by notifying the University Secretary.

(2) Where a variation referred to in Regulation 10A(1) is the withdrawal from a summer session subject before the end of the third week of the summer session, a sessional subject before the end of the eighth week, excluding session breaks, of the session of offer, or from an annual subject before the end of the first week of session 2 the candidate shall be deemed to have not enrolled in that subject.

(3) Where a variation referred to in Regulation 10A(1) is the withdrawal from a summer session subject after the end of the third week of session, a sessional subject after the end of the eighth week, excluding session breaks, of session of offer, or from an annual subject after the end of the first week of session 2 the candidate shall be deemed to have failed that subject unless withdrawal is for medical, compassionate or other reason acceptable to the Council. In this latter case the candidate will be deemed to have discontinued the subject without penalty for the purposes of Regulation 10B.

(4) After consultation with the Head of the Academic Unit a candidate may apply to the University Secretary for permission to enrol in an additional subject for a programme.

(5) Except with the approval of the Head of the Academic Unit, a candidate may not enrol in a summer session subject after the expiration of the first week of the summer session, a sessional subject after the expiration of the first week of summer session, a sessional subject after the expiration of the first two weeks in the session of offer or in an annual subject after the expiration of the first two weeks of session 1.

MINIMUM RATE OF PROGRESS

10B. (1) Candidates are required, in the academic year including the preceding summer session, to accrue credit for at least half of the subjects in which the candidate has enrolled.

(2) Except with the approval of Council, a candidate who fails to meet the requirement set out in 10B(1) may not enrol in the programme.
52 GRADUATE DEGREE AND DIPLOMA REGULATIONS

LEAVE OF ABSENCE

11. Subject to these Regulations a candidate may be granted leave of absence for up to one year by the University Secretary on receipt of a written application; applications for leave of absence for more than one year shall be determined by Council.

CONFERRING OF DEGREES

12. (1) A degree of Master as prescribed in Regulation 2 may be conferred by Council upon a candidate who has complied with these Regulations.

(2) Prior to the conferring of a degree of Master upon a candidate who holds a Graduate Diploma of this University in the same discipline as the degree of Master, the candidate shall, except for the case that the course of study for the Graduate Diploma is not a component of the degree of Master surrender the testamur for that Graduate Diploma and in doing so shall be deemed to have surrendered all rights pertaining to that Graduate Diploma.

(3) Prior to the conferring of the degree of MBA upon a candidate who holds a degree of MMgt of this University, the candidate shall surrender the testamur for the MMgt degree and in doing so shall be deemed to have surrendered all rights pertaining to that degree.

MISCELLANEOUS

13. General Saving Clause

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

14. Application for Amending Regulations

If an amendment relating to courses that may be taken for the degree of Master is made to these Regulations after implementation of the, the amendment shall not apply to a candidate who, before the making of the amendment, satisfactorily completed subjects having a value of 12 credit points, unless

(a) the candidate accepts the application of the amendment and submits to Council proposed course alterations that are deemed by Council to be in accordance with the Regulations; or

(b) Council determines otherwise.

15. Appeal

A candidate may appeal against any decision made under the Regulations; such appeal should be lodged with the University Secretary within two weeks of notification to the candidate of the decision referred to in this Regulation.
HONOURS MASTER DEGREE REGULATIONS

PRELIMINARY

1. These Regulations may be cited as the 'Honours Master Degree Regulations'.

2. These Regulations control courses leading to the honours Master degrees of:
   - 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 Science (MSc(Hons))

These degrees may be undertaken by thesis, by coursework or by coursework and thesis or minor thesis.

COMMENCEMENT

3. These Regulations come into effect on 1 January, 1987.

APPLICATION FOR REGISTRATION

4. (1) An application for registration as a candidate for a degree of honours Master by thesis shall be made on the prescribed form which should be lodged with the University Secretary at least one calendar month before the commencement of the session in which the candidate intends to register.

(2) An application for registration as a candidate for a degree of honours Master by coursework or by coursework and thesis or minor thesis shall be made on the prescribed form which should be lodged with the University Secretary by the first working day in November of the year prior to the year in which admission is sought save that the University Secretary may vary the date as circumstances determine.

QUALIFICATION REQUIREMENTS

5. (1) An applicant for registration as a candidate for a degree of honours Master shall have qualified for a degree of bachelor in the same discipline as the proposed degree, or an appropriate discipline of the University or possess an equivalent qualification from an approved institution.

(2) In appropriate circumstances, an applicant who does not qualify for registration under Regulation 5(1) may be permitted to register as a candidate for a degree of honours Master provided that the applicant submits evidence of such tertiary academic and professional attainments as may be approved.

(3) Notwithstanding any other provisions of these Regulations, Council may require an applicant to demonstrate fitness for candidature by carrying out such work and satisfactorily completing such examinations as it may determine.

REGISTRATION

6. (1) A person admitted as a candidate for a degree of honours Master shall register as a:
   (a) full-time candidate; or
   (b) part-time candidate.

(2) A candidate may apply to Council at the end of a session to transfer registration from one type of candidature to the other.

(3) At any time prior to the submission of a thesis, a candidate may apply to Council for registration to be changed
from degree of honours Master to degree of Doctor of Philosophy.

TIME LIMITS

7. (1) A candidate admitted under Regulation 10(2) and:

(a) registered as a full-time candidate shall complete the course referred to in Regulation 10 in not less than two consecutive sessions, not including summer sessions, and not more than four consecutive sessions, not including summer sessions, from the date of registration; or

(b) registered as a part-time candidate shall complete the course referred to in Regulation 10 in not less than three consecutive sessions, not including summer sessions, and not more than eight consecutive sessions, not including summer sessions, from the date of registration.

(2) A candidate admitted under Regulation 10(3) and:

(a) registered as a full-time candidate shall complete the course referred to in Regulation 10 in not less than three consecutive sessions, not including summer sessions, and not more than six consecutive sessions, not including summer sessions, from the date of registration; or

(b) registered as a part-time candidate shall complete the course referred to in Regulation 10 in not less than five consecutive sessions, not including summer sessions, and not more than twelve consecutive sessions, not including summer sessions, from the date of registration.

(3) A candidate admitted under Regulation 10(4), or who changes from one type of candidature to the other pursuant to Regulation 6(2), shall be subject to time limits determined by Council.

(4) Notwithstanding any other provisions of these Regulations Council may, in exceptional circumstances, alter the time limits referred to in Regulation 7(1), (2) or (3).

CONCURRENT STUDIES OR OUTSIDE WORK

8. (1) Except with prior approval, a candidate shall not be registered concurrently for a degree of honours Master and any other degree, diploma or certificate in the University or other tertiary institution.

(2) A full-time candidate may be permitted by Council to undertake a limited amount of teaching in the University or outside work which in the judgement of Council will not interfere with the continuous pursuit of the course.

CHARGES

9. A candidate shall be required to pay such charges as may be determined from time to time by Council.

COURSE REQUIREMENTS

10. (1) A candidate for a degree of honours Master shall undertake an approved course recommended by the Head of the relevant academic unit, together with such examinations and other work as may be prescribed by Council.
(2) For a candidate who has completed a degree of bachelor at a standard of Honours Class II Division 2 or higher or approved equivalent qualification, the course shall comprise subjects having a value of at least 48 credit points selected from those listed in the Schedule of Graduate Subjects following these Regulations.

(3) For a candidate who has completed a degree of bachelor at a standard below Honours Class II Division 2 or approved equivalent qualification, the course shall comprise subjects having a value of at least 96 credit points of which:

(a) subjects having a value of at least 48 credit points shall be from the Schedule of Graduate Subjects following these Regulations, and

(b) subjects having a value of at most 48 credit points shall be from the Schedule of Graduate Subjects or from one or more of the Schedules in Attachment C following the Bachelor Degree Regulations except that other than in exceptional approved circumstances no credit points shall be for 100-level or 200-level subjects and at most 24 credit points shall be for 300-level subjects.

(4) A candidate referred to in Regulation 10(3) who has, in addition, completed other relevant qualifications may be granted up to 48 credit points of advanced standing in respect of the subjects referred to in Regulation 10(3)(b).

(5) (a) To qualify for the award of the degree of honours Master a candidate must accrue the required number of credit points by satisfactory completion of subjects comprising the course referred to in Regulation 10(1).

(b) Except with approval, a candidate may not accrue credit points for a subject which is substantially similar to a subject already counted for another qualification of the University.

VARIATION OF ENROLMENT

10A.(1) After consultation with the Head of the Academic Unit a candidate may withdraw from a subject by notifying the University Secretary.

(2) Where a variation referred to in Regulation 10A(1) is the withdrawal from a summer session subject before the end of the third week of the summer session, a sessional subject before the end of the eighth week, excluding session breaks, of the session of offer, or from an annual subject before the end of the first week of session 2 the candidate shall be deemed to have not enrolled in that subject.

(3) Where a variation referred to in Regulation 10A(1) is the withdrawal from a summer session subject after the end of the third week, a sessional subject after the end of the eighth week, excluding session breaks, of session of offer, or from an annual subject after the end of the first week of session 2 the candidate shall be deemed to have failed that subject unless withdrawal is for medical, compassionate or other reason acceptable to the Council. In this latter case the candidate will be deemed to have discontinued the subject.
without penalty for the purposes of Regulation 10B.

(4) After consultation with the Head of the Academic Unit a candidate may apply to the University Secretary for permission to enrol in an additional subject for a programme.

(5) Except with the approval of the Head of the Academic Unit, a candidate may not enrol in a summer session subject after the expiration of the first week of summer session, a sessional subject after the expiration of the first week of summer session, a sessional subject after the expiration of the first two weeks in the session of offer or in an annual subject after the expiration of the first two weeks of session 1.

MINIMUM RATE OF PROGRESS

10B.(1) Candidates are required, in the academic year including the preceding summer session, to accrue credit for at least half of the subjects in which the candidate has enrolled.

(2) Except with the approval of Council, a candidate who fails to meet the requirement set out in 10B(1) may not enrol in the programme.

SUPERVISION

11. (1) (a) A candidate for a degree of honours Master by thesis or by coursework and thesis or minor thesis shall carry out the thesis work under the direction of a supervisor or supervisors, of whom at least one shall be a full-time member of the academic staff, appointed by Council under such conditions as it may determine;

(b) should the supervisor be absent from the University for a period exceeding six weeks, that supervisor shall make alternative supervision arrangements which shall be subject to the approval of the Head of the relevant academic unit and subject to the endorsement of Council.

(2) The work, other than field work, shall be carried out in an academic unit of the University save that in special cases Council may permit a candidate to conduct work at other places where suitable facilities are available.

(3) Council may on written application from a candidate approve a change of supervisors after consultation with the Head of the relevant academic unit.

(4) In every case, before approving the registration of an applicant as a candidate, Council shall be satisfied that adequate supervision and facilities for the proposed work are available.

THESIS

12. (1) For a candidate for a degree of honours Master by thesis or by coursework and thesis or minor thesis, the course shall contain an appropriate thesis or minor thesis subject selected from the Schedule of Graduate Subjects following these Regulations.

(2) A candidate for a degree of honours Master by thesis or by coursework and thesis or minor thesis shall, not later than one session after registration, submit the title of the thesis through the Head of the relevant academic unit for approval; after the title has been approved, it may not be
changed except with further approval.

(3) A candidate for a degree of honours Master by thesis or coursework and thesis or minor thesis:

(a) shall give the Head of the academic unit two months written notice of intention to submit the thesis which shall embody the results of a study prescribed by the thesis subject referred to in Regulation 12(1);

(b) shall submit four copies of the thesis to be retained by the University;

(c) shall present the thesis in a form which complies with the requirements of the University for the preparation and submission of higher degree theses;

(d) shall include in the thesis a certificate indicating the extent to which the work has been performed by the candidate;

(e) may submit for consideration any work that has been published;

(f) may not submit as the main content of the 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 the University and the examiners of that thesis have recommended that it be submitted for the degree of honours Master.

ANNUAL REPORT

13. A candidate for a degree of honours Master by thesis shall be required to submit annually to Council, through the Head of the academic unit, a report on progress.

APPOINTMENT OF THESIS EXAMINERS

14. (1) For a candidate required to submit a thesis or minor thesis, Council shall appoint at least two examiners, at least one of whom shall be an external examiner.

(2) The supervisor of a candidate may not act as an examiner of the candidate's thesis.

THESIS EXAMINATION

15. (1) The supervisor of a candidate who has submitted a thesis or minor thesis for examination shall provide a certificate indicating:

(a) whether the supervisor is in agreement with the statement submitted by the candidate in accordance with Regulation 12(3)(d); and

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

(2) The examiner of a thesis or minor thesis will be asked to report on the following matters:

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

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

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

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

(3) After examining the thesis or minor thesis, an examiner may recommend:

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

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

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

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

(e) that the candidate not be awarded the degree.

LEAVE OF ABSENCE

16. Subject to these Regulations a candidate may be granted leave of absence for up to one year by the University Secretary on receipt of a written application; applications for leave of absence for more than one year shall be determined by Council.

CONFERRING A DEGREE

17. A degree of honours Master prescribed in Regulation 2 may be conferred by Council upon a candidate who has complied with these Regulations.

MISCELLANEOUS

18. General Saving Clause

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

19. Application for Amending Regulations

If an amendment relating to courses that may be taken for the degrees of honours Master is made to these Regulations after implementation of them, the amendment shall not apply to a candidate who, before the making of the amendment, satisfactorily completed subjects having a value of 12 credit points, unless

(a) the candidate accepts the application of the amendment and submits to Council proposed course alterations that are deemed by Council to be in accordance with the Regulations; or

(b) Council determines otherwise.

20. Appeal

A candidate may appeal against any decision made under the regulations; such appeal should be lodged with the University Secretary within two weeks of notification to the candidate.
of the decision referred to in this Regulation.

• For the purpose of Regulation 10(2), the degree of Bachelor of Science in Engineering (with Merit) from the University of New South Wales, the University of Newcastle and the University of Wollongong is deemed by the Council to be equivalent to that of a bachelor degree with Honours Class 1 Division 2 where first enrolment in that degree of Bachelor of Science in Engineering took place in 1974 or earlier.
DOCTORAL DEGREE REGULATIONS

NOTE: For candidates enrolled in the DCP degree prior to 1989 the appropriate degree regulations are contained in Volume III of the 1988 Calendar.

PART I

PRELIMINARY

1. These Regulations may be cited as the 'Doctoral Degree Regulations'.

2. These Regulations control the degrees of Doctor as follows:

- Doctor of Letters (DLitt)
- Doctor of Science (DSc)
- Doctor of Philosophy (PhD)
- Doctor of Creative Arts (DCA)

COMMENCEMENT

3. These Regulations come into effect on 1 January, 1987.

PARTS

4. These Regulations comprise the following parts:

- Part I - Preliminary Regulations 1 - 4
- Part II - Relating to the degrees of PhD and DCA by study Regulations 5 - 17
- Part III - Relating to the degree of PhD by publication Regulations 18 - 28
- Part IV - Relating to the degrees of DLitt and DSc Regulations 29 - 35
- Part V - Relating to all Doctorate degrees Regulations 36 - 38

PART II

APPLICATION FOR REGISTRATION

5.(1) An application for registration as a candidate for a degree of Doctor shall be made on the prescribed form which should be lodged with the University Secretary one calendar month before the commencement of the session in which the applicant intends to register.

5.(2) Notwithstanding any other provisions of these Regulations the Head of the academic unit in which the applicant proposes to study shall recommend whether the applicant is fit to undertake a study leading to the award of Doctor and certify that the academic unit has the necessary resources to provide supervision in the discipline in which the applicant proposed to study.

QUALIFICATION REQUIREMENTS

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

6.(2) In appropriate circumstances, an applicant who does not qualify for registration under Regulation 6(1) may be permitted to register as a candidate for a degree of Doctor provided that the applicant submits evidence of such academic and professional attainments as may be approved.

6.(3) Notwithstanding any other provisions of these Regulations, Council may require an applicant to demonstrate fitness for
candidature by carrying out such work and satisfactorily completing such examinations as it may determine.

REGISTRATION

7. A candidate shall register as a full-time candidate for a degree of Doctor except that:

(1) a member of the full-time staff of the University may be accepted as a part-time candidate for the degree, in which case Council shall prescribe a minimum period for the duration of study.

(2) Council may accept as a part-time candidate for the degree 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 the candidate with the opportunity to pursue study in an academic unit of the University.

(3) At the end of a session a candidate may apply to Council to transfer registration from one type of candidature to the other.

TIME LIMITS

8. (1) Subsequent to registration a full-time candidate shall pursue the study for at least four consecutive sessions not including Summer Sessions, and a part-time candidate shall pursue the study for at least six consecutive sessions not including Summer Sessions save that:

(a) a full-time candidate who, before registration, was engaged upon study to the satisfaction of Council may be exempted from not more than two sessions;

(b) in special circumstances, Council may permit a candidate to spend not more than one calendar year studying at another institution provided that the work can be supervised in a manner acceptable to Council;

(c) in exceptional cases, a candidate can apply to be exempted by Council from not more than two sessions stipulated in Regulation 8(1).

(2) The thesis referred to in Regulation 13 shall be submitted

(a) by a full-time candidate, no later than eight consecutive sessions not including Summer Sessions after registration; or

(b) by a part-time candidate, no later than twelve consecutive sessions not including Summer Sessions after registration; save that in either case, an extension of the time limit may be approved.

CONCURRENT STUDIES OR OUTSIDE WORK

9. (1) Except with prior approval, a candidate shall not be registered concurrently for a degree of Doctor and any other degree, diploma or certificate in the University or other tertiary institutions.

(2) Council may permit a candidate an application to undertake a limited amount of University teaching or outside work which in its judgement will not interfere with the continuous pursuit of the proposed course
of advanced study and research.

CHARGES

10. A candidate shall be required to pay such charges as may be determined from time to time by Council.

STUDY

11. A candidate for a degree of Doctor shall undertake an approved study which may include specified course and/or practical work and/or performance as recommended by the Head of the relevant academic unit.

SUPERVISION

12. (1) A candidate for a degree of Doctor shall carry out the study under the direction of a supervisor or supervisors, of whom at least one shall be a full-time member of the academic staff, appointed by Council under such conditions as it may determine.

(2) Should the supervisor be absent from the University for any period exceeding six weeks, that supervisor shall make alternative supervision arrangements which shall be subject to the approval of the Head of the relevant academic unit and subject to the endorsement of Council.

(3) The study, other than field work, shall be carried out in an academic unit of the University save that in special cases Council may permit a candidate to conduct study at other places where facilities not available at the University may be available; such permission will be granted only if the direction of the work remains wholly under the control of the supervisor appointed pursuant to Regulation 12(1).

(4) Council may, on written application from a candidate, approve a change of supervisor or supervisors after consultation with the Head of the academic unit.

(5) In every case, before approving the registration of an applicant as a candidate, Council shall be satisfied that adequate supervision and facilities for the proposed study are available.

THESIS

13. (1) A candidate shall, not later than one session after registration, submit the title of the thesis through the Head of the academic unit for approval; after the title has been approved it may not be changed except with further approval.

(2) A candidate shall give to the Head of the academic unit, two months written notice of intention to submit the thesis.

(3) On completion of the study a candidate shall submit a thesis embodying the results of the study.

(4) The thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.

(5) A candidate submitting a thesis pursuant to Regulation 13(3) must comply with the requirements that:

(a) the majority of the work described shall have been completed subsequent to registration for the degree;

(b) the work shall comprise an original and significant contribution to the knowledge of the subject;
(c) the thesis must present an account by the candidate of the study;

(d) in special cases study carried out jointly with other persons may be accepted, provided Council is satisfied of the part of the candidate in the joint study.

(e) a candidate may not submit as the major part of the thesis any work or materials previously submitted for a degree of this University or similar award from another institution;

(f) the thesis may include for consideration any work that has been published;

(g) the thesis shall include a certificate indicating the extent to which the work has been performed by the candidate.

(6) A candidate shall submit four copies of the thesis to be retained by the University.

ANNUAL REPORT

14. A candidate for a degree of Doctor shall be required to submit annually to Council, through the Head of the academic unit, a report of progress.

APPOINTMENT OF EXAMINERS

15. Council shall appoint at least two external examiners of the thesis.

THESIS EXAMINATION

16. (1) The supervisor of a candidate who has submitted a thesis for examination shall provide a certificate indicating

(a) whether the supervisor is in agreement with the statement submitted by

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

(2) The examiner of a thesis will be asked to report on the following matters:

(a) whether the thesis affords evidence of originality by the discovery of new facts;

(b) whether the thesis affords evidence of originally by the exercising of independent critical ability;

(c) whether the thesis represents a significant contribution to the knowledge of the subject concerned;

(d) whether the thesis reveals a broad undertaking of the discipline within which the work was done;

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

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

(g) whether the literary presentation of the thesis is adequate.

(3) After examining the thesis, an examiner may recommend:
64 GRADUATE DEGREE AND DIPLOMA REGULATIONS

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

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

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

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

(e) that the candidate not be awarded the degree.

(f) that the candidate be allowed to submit the thesis for a degree of Honours Master.

LEAVE OF ABSENCE

17. Leave of absence, normally for periods of not longer than two years, may be granted by the Council on receipt of an application in writing.

PART III

18. A candidate wishing to proceed to the degree of Doctor of Philosophy under Part III of these Regulations shall be required to give proof of a significant contribution to scholarship.

(1) Except as provided in Regulation 18(2), any person may apply for admission as a candidate for the degree who is a graduate of the University or of the University of New South Wales, having completed the requirements for the degree at Wollongong University College, and who, either:

(a) is of not less than eight years' standing from admission to his/her first degree of the University, or

(b) is of not less than two years' standing from admission to a Master degree of the University provided that he/she is of not less than eight years' standing from admission to his/her first degree of some other University.

(2) A person who is not a graduate of the University but who is a member of the full-time academic staff of the University of at least five years' standing from admission to his/her first degree of some other University, may be a candidate for the degree.

19. A candidate for admission to the degree under these Regulations shall make application in writing to the University Secretary stating the academic unit with which he/she considers the subject of his/her contribution to scholarship is closely connected, and specifying the published work or works on which the claim for the degree is based. He/she shall, at the same time, send the University Secretary five copies of each of the published works specified in the application, and five copies of a list of these works.

20. A candidate shall also be required to declare whether or not any of the published works referred to in Regulation 19 have been submitted for a degree or diploma or other qualification at any other Tertiary Institution. All the works submitted, apart from quotations, shall be written in or translated into English, unless otherwise approved by Council.

21. If Council shall be of the opinion that the published work or works
submitted constitute prima facie a qualification for the degree, they shall appoint and refer the application to not less than three examiners, at least two of whom shall be external to the University.

22. The examination for the degree under these Regulations shall consist of the submission of published work, and of an oral examination on the work submitted and on the general field of knowledge within which it falls.

23. Each examiner shall make an independent report on the published work or works before the oral examination and shall present questions to be asked at the oral examination.

24. If the examiners are not satisfied with the candidate's performance in the oral examination, Council may allow the candidate to present him/herself for that examination on one more occasion at a time to be appointed by the examiners.

25. If the examiners do not agree in their recommendations or if for any other reason Council needs a further opinion or opinions on the merit of the work submitted, Council may appoint an additional examiner or additional examiners. Any additional examiner or examiners thus appointed shall make an independent report on the work submitted by the candidate, and may at the discretion of such examiner or examiners, conduct an oral or written examination on that work and on the general field of knowledge within which it falls.

26. 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 candidate may be admitted to the degree.

27. If the application for the degree fails, the candidate may re-apply on one occasion only, after a period of not less than three years from the date of the original application.

28. No candidate for the degree shall be present at the deliberation of Council in respect of his/her own candidature.

PART IV

29. A candidate for the degree of Doctor of Letters or Doctor of Science under Part IV of these Regulations shall hold a degree of the University of Wollongong, or shall have been a full-time member of the academic staff of the University for a period of at least three years, or shall have been admitted to the status of a degree of the University, save that on the recommendation of the Academic Senate, Council may vary this requirement to include former staff or students of the Wollongong University College. No candidate shall make application for the degree of Doctor of Letters or Doctor of Science until eight years after the award of is/her first degree.

30. A candidate for the degree shall forward to the University Secretary an application accompanied by the prescribe compulsory charge. With such application the candidate shall forward five copies (wherever possible) of the published work which he/she wishes to have examined. The publications shall be a record of original research or critical inquiry undertaken by the candidate, who shall state the sources from which the information was derived, and the extent to which he/she has availed him/herself of the work of others.

31. If the publication submitted, whether published in the candidate's sole name or under joint authorship, record work carried out conjointly, the candidate shall state the extent to which he/she was responsible for the initiation, conduct or direction of such joint research or inquiry, however published.

32. Where the principle publications, as distinct from supporting papers, incorporate work previously submitted for a degree or award, the candidate shall clearly indicate which proportion of the publications was so submitted.
33. A candidate may submit additional work, published or unpublished, in support of the application.

34. When Council is satisfied that the published work is prima facie worthy of examination for the degree, Council may appoint at least three examiners, of whom at least one shall normally be a member of the academic unit concerned and at least two shall be external examiners.

35. The candidate may be required to answer orally or in writing any questions concerning the work.

PART V

MISCELLANEOUS

36. General Saving Clause

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

37. Application for Amending Regulations

If an amendment relating to courses that may be taken for the degrees is made to these Regulations after implementation of them, the amendment shall not apply to a candidate who, before the making of the amendment, was registered for a period of not less than 2 sessions, unless

(1) the candidate accepts the application of the amendment and submits to Council proposed course alterations that are deemed by the Council to be in accordance with the Regulations; or

(2) Council determines otherwise.

38. Appeal

A candidate may appeal against any decision made under the Regulations; such appeal should be lodged with the University Secretary within six weeks of notification to the candidate of the decision referred to in this Regulation.
REGULATIONS GOVERNING THE PREPARATION AND SUBMISSION OF THESES FOR HIGHER DEGREES

1. Every candidate required to submit a thesis for the Honours Master degree or the degree of Doctor of Philosophy shall submit to the University Secretary at least four copies of the thesis and supporting work, at least two of which shall be bound according to the specifications set out below, together with a certificate from the supervisor to the effect that the thesis is in a form suitable for submission to the examiner. All copies of the thesis shall include a summary of approximately 200 words and a certificate signed by the candidate to the effect that the work has not been submitted for a degree to any other university or institution.

2. The copies of the thesis and other relevant work may be submitted for examination to the University Secretary at any time provided the candidate has completed the minimum period of registration.

3. The specifications currently approved for higher degree theses are as follows and any variation must be approved by the Academic Senate in consultation with the supervisor.

   (1) The text of the thesis, normally in English, shall be in double-spaced typescript.
   (2) The size of the paper shall approximately International Standards Organization 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.
   (3) The margins on each sheet shall be not less than 40 mm on the bound side, 20 mm at the top and 20 mm at the bottom.
   (4) There shall be a title sheet set out in accordance with the style sheet attached.

4. Following award of the degree the unbound copies of the thesis shall be returned to the candidate. The candidate shall undertake necessary corrections and present to the University Secretary two properly bound copies of the thesis. The thesis shall be presented in the following manner:

   (1) The thesis shall be bound in boards, covered with buckram.
   (2) The lettering on the spine binding will be:
       (a) 15 mm from the bottom and across - UW;
       (b) 70 mm from the bottom and across - the degree and, underneath, the year of submission of the thesis, for example:

       PhD
       1987

       (centred if possible); and
       (c) evenly spaced between the degree and the top, reading upwards, the name of the author, initials first and surname or family name.

   (3) No further lettering or decoration is required on the spine or elsewhere on the binding.
   (4) In the binding of a thesis which includes mounted photographs, graphs, etc., or contains a back-pocket, packing shall be inserted at the spine to ensure even thickness of the volume.
   (5) A completed and signed "Declaration Relating to
Disposition of Thesis form (see Section 7 below) shall be pasted to the inside of the front cover of every copy submitted for examination. The form may be obtained from the office of the University Secretary.

(6) The thesis shall be presented in a permanent and legible form, original typescript, offset printing or Xerographic copy, using dry plain paper copying technique.

5. The degree will not be conferred until the two bound copies, where appropriate accompanied by a letter from the Head of Academic Unit certifying that corrections have been satisfactorily completed, are lodged with the University Secretary following award of the degree.

6. Presently, the University holds that no thesis submitted for a higher degree should be retained in the Library for record purposes only, but within copyright privileges of the author, should be public property and accessible for consultation at the discretion of the Librarian.

7. In order to ascertain the wishes of a candidate for a higher degree regarding the use to which the thesis may be put, the candidate is required to complete a declaration (obtainable from the University Secretary) which would -

(1) grant the University Librarian permission to publish or to authorize the publication of the thesis or grant access to it (Form 1);

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

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

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

8. The abstract submitted with the thesis will be forwarded by the Librarian to University Microfilms for inclusion in Dissertation Abstracts Information Service.
ACCOUNTANCY

INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Commerce
2. Master of Commerce
3. Honours Master of Arts by Coursework or Research
4. Honours Master of Commerce by Coursework or Research
5. Doctor of Philosophy

The schedule of subjects available for the Masters degrees are set out on the following pages.

For the Graduate Diploma, subjects are selected from the undergraduate schedules of subjects set out in Volume II of the Calendar. Please refer to the information about this diploma on the following pages.

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Master degrees and the Doctor of Philosophy degree:

- External financial reporting
- Management accounting
- Auditing
- Business finance
- History of accounting thought
- Small business management

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ARTS*

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<thead>
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<th>Number</th>
<th>Subject</th>
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<tr>
<td>ACCY903</td>
<td>Accounting Theory</td>
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<tr>
<td>ACCY904</td>
<td>Financial Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ACCY913</td>
<td>Management Accounting</td>
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<tr>
<td>ACCY993</td>
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Optional Subjects

| ACCY905 | International Accounting                      | 6             |
| ACCY906 | Issues in Financial Accounting               | 6             |
| ACCY907 | Empirical Research Methods in Accounting     | 6             |
| ACCY908 | Applied Financial Accounting                 | 6             |
| ACCY909 | Comparative Accounting Systems               | 6             |
| ACCY914 | Management Planning and Control Systems      | 6             |
| ACCY915 | Capital Investment**                         | 6             |
| ACCY916 | Studies in Controllership                   | 6             |
| ACCY918 | Applied Management Accounting                | 6             |
| ACCY923 | Investment Management**                      | 6             |
| ACCY924 | Corporate Financial Information Analysis**   | 6             |
| ACCY925 | Australian Banking Practices                 | 6             |
| ACCY926 | Studies in Business Finance                  | 6             |
| ACCY931 | Advanced Decision Support Systems            | 6             |
| ACCY933 | Studies in Information Systems in Accounting | 6             |
HONOURS MASTER OF ARTS* (Cont’d)

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<td>ACCY961</td>
<td>Professional Practice - Accounting ***</td>
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<td>Professional Practice - Auditing &amp; EDP***</td>
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<td>Professional Practice - Taxation***</td>
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<tr>
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NOTES:

1) Combination of subjects from the Departments of Economics, Accountancy, Legal Studies and Management may be approved by the Heads of the appropriate Departments. Subjects aggregating not more than 12 credit points may be selected from 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, Management, Legal Studies or Economics 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). A candidate may not include for this degree subjects similar in content to subjects included in the Honours part of the undergraduate course.

2) For general conditions of registration, see Honours Masters Degree Regulations and for additional specific conditions applying to Accountancy see Description of Postgraduate Courses - Accountancy.

3) For details of these subjects, refer to the Description of Subjects.

** Normally taught in collaboration with the Department of Management

*** Offered jointly with the Institute of Chartered Accountants in Australia. Candidates wishing to enrol in them must be employed by a firm of Chartered Accountants.

HONOURS MASTER OF COMMERCE*

<table>
<thead>
<tr>
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Optional subjects

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<td>ACCY914</td>
<td>Management Planning and Control Systems</td>
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<td>ACCY916</td>
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* See NOTES for the "Honours Master of Arts".

** Subjects are normally taught in collaboration with the Department of Management.

*** Offered jointly with the Institute of Chartered Accountants in Australia. Candidates wishing to enrol in them must be employed by a firm of Chartered Accountants.

COURSE DESCRIPTIONS

1. 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 Accountancy 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
2. With the approval of the Head of the Department of Accountancy subjects may be selected from 900 level subjects offered by the Department of Accountancy. (Any subjects selected under this clause may be included in the 30 credit points required under 1.).

3. The whole course for the diploma is to be approved by the Head of the Department of Accountancy as providing a coherent course of study.

2. MASTER OF COMMERCE

The purpose of this pass degree is to provide graduate students, who have completed the accountancy specialisation for the BCom degree, with the opportunity of further in-depth study of advanced topics in accounting and commercial law. This degree should be particularly suitable for students wishing to specialise in professional areas, or wishing to complete specialisations approved by the Australian Society of Accountants.

The degree of 48 credit points may be studied full-time over one year, or may be studied part-time. Subjects are to be selected from the Schedule of Graduate Subjects. Entry requires a BCom degree with a specialisation in Accountancy, or equivalent degree.

Candidates who do not have a specialisation in Accountancy in their undergraduate degree may be permitted to study for the degree provided that they have first passed Financial Accounting III and Management Accounting III; 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 through they do not hold an undergraduate degree; such candidates will be required to pass subjects aggregating 72 credit points.

3. HONOURS MASTER OF ARTS

A. 1. Candidates who have completed at an acceptable standard the requirements for the award of the BA(Hons) in Accountancy, Economics or Management at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MA(Hons) degree by completing at honours standard any one of the courses of study listed below under the Honours Master of Commerce degree.

2. See corresponding comments below under the Honours Master of Commerce degree.

B. Candidates who have completed the requirements for the BA degree at a standard less than Class II, Division 2, or equivalent degree, may, subject to the attainment of a satisfactory standard in that degree, be permitted to register as candidates for the MA(Hons) degree. Such candidates may qualify for the award of the degree by completing at honours standard subjects aggregating not less than 96 credit points of which subjects aggregating not less than 48 credit points shall be selected in accordance with the requirements (1) to (3) above.

4. HONOURS MASTER OF COMMERCE

A. 1. Candidates who have completed the requirements for the award of the BCom(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 MCom(Hons) degree by completing at honours standard any one of the following courses of study.

(i) Thesis (48 credit points)
or

(ii) Project (12 credit points, Accountancy; 16 credit points, Economics) plus course work to aggregate not less than 48 credit points.

or

(iii) Research report (24 credit points) and course work aggregating not less than 24 credit points.

or

(iv) Course work aggregating not less than 48 credit points.

2. Subjects are to be selected from 900-level subjects offered by either the Department of Accountancy, the Department of Economics, or the Department of Management, and included in the Schedule of Graduate Subjects; provided that:

(a) A combination of Economics and Accountancy subjects may be approved by the Heads of the two Departments, and

(b) 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 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.).

3. 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 and shall be selected in accordance with the requirements (1) to (3) above.

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 5(3) of the Honours Masters Degree Regulations may have their enrolment cancelled in the event that the preliminary program or designated subjects is not completed at the appropriate standard.
SUBJECT DESCRIPTIONS

Seminars
Generally a one or two hour weekly seminar, or a two hour fortnightly seminar, 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 recommendations may be obtained from the Accountancy Department.

ACCY901 ACCOUNTING FOR MANAGERS

First session: 6 credit points
The interpretation and utilisation of the major types of reports and analyses prepared by accountants for management decision making.

No prescribed textbooks.

ACCY903 ACCOUNTING THEORY

6 credit points

ACCY904 FINANCIAL ACCOUNTING

6 credit points
The objectives and functions of external 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.

ACCY905 INTERNATIONAL ACCOUNTING

6 credit points

ACCY906 ISSUES IN FINANCIAL ACCOUNTING

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.

ACCY907 EMPIRICAL RESEARCH METHODS IN ACCOUNTING

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.

ACCY908 APPLIED FINANCIAL ACCOUNTING

6 credit points
Advanced problems in external financial reporting, including accounting for groups of companies, price level accounting and
reporting thereon involving consideration of taxation and economic implications.

**ACCY909 COMPARATIVE ACCOUNTING SYSTEM**

*6 credit points*

An indepth 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.

**ACCY913 MANAGEMENT ACCOUNTING**

*6 credit points*

The conceptual basis of management accounting and information systems. An examination of the organisational content of management accounting, including the contingency approach to management accounting, the interrelationships between individual and group behaviour and management accounting systems.

**ACCY914 MANAGEMENT PLANNING AND CONTROL SYSTEMS**

*6 credit points*

An indepth analysis of selected aspects of the design and evaluation of management accounting, planning and control systems.

**ACCY915 CAPITAL INVESTMENT**

*6 credit points*

An indepth study of capital investment decision analysis. The theoretical bases of net present value and internal rate of return selection criteria. The application of investment selection criteria under diverse conditions such as capital rationing, mutually exclusive choice situations, buy/lease decisions, fluctuating rates of output and inflation.

The incorporation of risk into capital investment decision analysis, including the application of capital asset pricing models to investment evaluation.

**ACCY916 STUDIES IN CONTROLLERSHIP**

*6 credit points*

The role and functions of the Chief Accounting Officer. Designing, installing and managing accounting systems - both financial and managerial. Specific problem areas in controllership, as depicted in selected case studies.

**ACCY918 APPLIED MANAGEMENT ACCOUNTING**

*6 credit points*

An indepth applied analysis of selected topics in management accounting. Topics chosen could include decision theory and analysis, financial model building, cost prediction and control techniques, pricing, management accounting systems design, and the interrelationships between management and the management accounting system. Theoretical concepts developed in other management accounting subjects will be expanded as needed to support the complex applications being studied.

**ACCY923 INVESTMENT MANAGEMENT**

*6 credit points*


**ACCY924 CORPORATE FINANCIAL INFORMATION ANALYSIS**

*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 stockmarket data. Equal emphasis is placed upon the development of theoretical constructs, and appraisal of the results of empirical research, especially Australian studies.

** These subjects, ACCY915, ACCY923, ACCY924, ACCY925 and ACCY926 are normally taught in collaboration with the Department of Management.

** ACCY925 AUSTRALIAN BANKING PRACTICES**

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.

** ACCY926 STUDIES IN BUSINESS FINANCE**

6 credit points
Contemporary business finance theory, including option pricing theory, arbitrage pricing model, bond swapping and bond immunisation.

** ACCY931 ADVANCED DECISION SUPPORT SYSTEMS**

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 applications will be provided. Empirical studies and recent developments will be selected for in-depth review.

* Yet to be approved.

** ACCY933 STUDIES IN INFORMATION SYSTEMS IN ACCOUNTING**

6 credit points
Studies of particular computer applications in accounting. Specific problem areas as depicted in selected case studies.

** ACCY936 MANAGEMENT AND INFORMATION SYSTEMS**

First 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**

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.

** ACCY944 ISSUES AND AUDITING**

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, extension of attest function and public sector auditing.
ACCY961 PROFESSIONAL PRACTICE - ACCOUNTING

6 credit points


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

Session 1 or 2; 6 credit points

Accounting and legal aspects of corporate and non-corporate insolvencies including bankruptcies, liquidations, receivership; alteration of capital, reconstruction, amalgamation and takeovers. (N.B. A student who has passed ACCY368 Insolvencies may not enrol in this subject).

ACCY973 HISTORY OF ACCOUNTING THOUGHT

6 credit points


ACCY974 ACCOUNTING REGULATION

6 credit points

An indepth 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.

ACCY975 SPECIAL TOPIC IN ACCOUNTING - A

6 credit points

ACCY976 SPECIAL TOPIC IN ACCOUNTING - B

6 credit points

ACCY983 STUDIES IN GOVERNMENT ACCOUNTING

6 credit points

A detailed examination of selected areas in federal, state, regional or local government accounting.

ACCY985 SPECIAL TOPIC IN ACCOUNTING - A

6 credit points

ACCY986 SPECIAL TOPIC IN ACCOUNTING - B

6 credit points

A special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. (N.B. 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.)
78 ACCOUNTANCY

ACCY993 RESEARCH ESSAY

12 credit points ***

ACCY994 PROJECT

12 credit points ***

ACCY995 RESEARCH PROJECT

24 credit points ***

ACCY996 THESIS

48 credit points ***

Information may be obtained from the Head of Department regarding ACCY993, ACCY994, ACCY995 and ACCY996.

*** Candidates intending to undertake empirical research (as part of this subject) are required to have first passed, or to concurrently enrol in ACCY907 Empirical Research Methods in Accounting.
BIOLOGY

INTRODUCTION

The following postgraduate degrees are available:

1. Master of Science (Technical Administration)
2. Honours Master of Science by Research
3. Doctor of Philosophy

The schedule of subjects available for the Masters degrees is set out on the following page.

For the Doctor of Philosophy degree candidates enrol in the subject BIOL999 Thesis.

The specific requirements for the Masters degrees and the description of the subjects available are set out in the pages following the schedule of subjects.

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:

Ecology
Plant-herbivore interactions, pollination mechanisms of native plants, responses of plant and animal populations to bush-fires: Plant succession and rehabilitation of disturbed land.

Entomology
Behaviour of field crickets.

Environmental Animal Physiology
Temperature regulation.

SCHEDULE OF GRADUATE SUBJECTS

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<tr>
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Thyroid function in vertebrates.
Hormones and metabolism.

Genetics
Ecological genetics of marine invertebrates.
Role of sexual and asexual reproduction of phenotypic plasticity in clonal organisms.
Self-recognition in invertebrates.

Immunobiology
Antigenic stimulation and generation of somatic vs germline diversity.
Acquire inheritance
Ontogeny - regulation of idioype restricted and anti-self responses.
Effect of viruses on the function of leukocytes

Microbiology and Molecular Biology
Pathogenicity of selected plant bacteria.
Development of biological probes to detect plant, animal and human pathogens.
Characterisation of new micro-organisms.

Neurobiology
Mechanisms of nerve transmission and of drug action.

Plant biochemistry and biotechnology
Photosynthesis: chloroplast function and energy transfer within the plant cell.
Genetic manipulation of Dunaliella.
Immobilisation of single cell algae.
Plant tissue culture for generation of new plants and the study of pathogen plant interactions.

Virology
Persistent human viruses.
Pathobiology of human cytomegalovirus.
Biochemistry of virus glycoproteins.
MASTER OF SCIENCE (TECHNICAL ADMINISTRATION) (Cont'd)

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<td>BIOL921</td>
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Second Year
Compulsory

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HONOURS MASTER OF SCIENCE

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COURSE DESCRIPTIONS

1. MASTER OF SCIENCE
   (TECHNICAL ADMINISTRATION)

Introduction and Objectives for Biology graduates

Three major career routes are generally followed by biology graduates: (i) the research route involving an Honours year which is followed by a Ph.D. if interested in a career; (ii) teaching, requiring a subsequent Dip. Ed. course, and (iii) direct entry into manufacturing service industry or government employment. Under category (ii) and (iii) students undertake a second higher qualification in biology such as an Honours Master of Science after some experience has been gained.

The Master of Science (Technical Administration) - M.Sc. (Tech. Admin) course is also aimed at category (iii) graduates. While many biologists begin their industrial careers "at the bench", subsequent progression up the career ladder generally involves the assumption of considerable managerial responsibility. Both their functional efficiency and their career prospects would be enhanced by gaining familiarity with business concepts, language, and skills early in their careers. The course is also suitable for biologists in government laboratories desiring management training.

The objectives of this proposed degree are therefore two-fold, namely to provide biology graduates with:

(i) a sound grounding in the commercial and business studies area (management, marketing, finance, communication, etc.), as well as in the broader social and environmental implications of technology; and

(ii) a greater insight into the industrial/commercial aspects of
biology via a major literature survey and a research project in applied chemistry.

Close integration of the two strands will be achieved by the use of biologically based case studies in relevant management subjects, and by the use of the applied research project in BIOL990 as the basis for the hypothetical enterprise for which a business plan is developed in MGMT945.

Structure of the Course

This is a 96 credit point course extending over two years for full-time students, and four years for part-time students.

It contains two complementary and integrated strands:

(i) 42 credit points of graduate Biology subjects, namely BIOL921 and BIOL990, the latter of which involves an applied research project and minor thesis;

(ii) 54 credit points of graduate subjects covering topics in management, finance, marketing, communication, technology, and innovation. These subjects are selected from the Schedule given below for the M.Sc. (Tech. Admin) degree, and include a 42 credit point core taught by the Department of Management (24 credit points), Science and Technology Studies (12 credit points), and Accountancy (6 credit points).

Entry to the Course

Entry will be restricted to about 6. Students must consult the Head, Department of Biology, for approval of overall entry, and for the choice of topics and supervisors in BIOL921 and BIOL970.

Pre-requisites

The minimum pre-requisite is a BSc degree, or its equivalent, with a major in Biology.

2. HONOURS MASTER OF SCIENCE

The objective of this degree is to provide Biology graduates with a grounding in biological experimental research. Graduates entering the degree who hold a degree of Bachelor 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 Head, Department of Biology. The remaining 48 credit points will be obtained by completing the subject BIOL999 Major Thesis.

SUBJECT DESCRIPTIONS

BIOL910 ADVANCED TOPICS IN BIOLOGY A: LITERATURE RESEARCH PROJECT

Single or double session; 16 credit points (112 hrs tutorials)
Assessment: Substantial report and seminar

Under the supervision of staff nominated by the Head, Department of Biology, the student will survey the biological literature and present a written report and a seminar on a topic chosen by the supervisory staff.

BIOL911 ADVANCED TOPICS IN BIOLOGY B: LABORATORY RESEARCH PROJECT

Single or double session; 16 credit points (112 hrs tutorials)
Assessment: Substantial report and seminar

Under the supervision of staff nominated by the Head, Department of Biology, 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.
BIOL921 BIOLOGY REPORT

*Double session; 18 credit points (120 hours tutorials).*

**Assessment:** Substantial report and seminar

Under the supervision of staff appointed by the Head, Department of Biology students will survey the biological literature, prepare a report, and present a seminar on a topic of relevance to the biological industry chosen by the supervising staff.

BIOL990 APPLIED BIOLOGY RESEARCH PROJECT

*Single or double session; 24 credit points*

**Minor Thesis**

Under the supervision of staff appointed by the Head, Department of Biology the student will undertake a research project and present a minor thesis and a seminar on an applied biology topic chosen by the supervising staff. This subject will be taken in conjunction with MGMT945 Technology Enterprise Project, where the new biological process or product to be developed in the research project will come from the hypothetical (or actual) basis of the enterprise for which a business plan is to be developed.

BIOL999 MAJOR THESIS

*48 credit points*
CHEMISTRY

INTRODUCTION

The following postgraduate degrees are available:

1. Master of Science
2. Master of Science (Technical Administration)
3. Honours Master of Science by Research
4. Doctor of Philosophy

The schedule of subjects available for the Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject CHEM920 Thesis.

The specific requirements for the Masters degrees and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

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:

- Analysis by mass spectrometry
- Computer control of mass spectrometers and other analytical instruments
- Atmospheric trace gas analysis using Fourier transform infrared spectroscopy
- 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 metal levels in the Illawarra region and investigations of the mechanism of toxic action
- Geochemical transport of metals, including uranium and thorium
- Oil shale chemistry
- 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
- Chemistry of Australian shale oils and retort waters
- Structural studies of organic, organometallic, and inorganic compounds using E.I., C.I., 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
- A symmetric synthesis using organometallic complexes
- The synthesis and investigation of transition metal complexes as models of metalloproteins such as type I and II copper proteins, cytochrome C oxidase, hemerythrin, hemoglobin, and ferritin
- New methods for organic synthesis and asymmetric synthesis
- Organic synthesis of natural products such as leukotrienes and prostaglandins, and their biological chemistry
- Biosynthesis of natural products from marine or terrestrial sources
- Marine natural products chemistry
- The mechanism of senile cataract formation in man
- Novel methods for peptide and protein synthesis using organometallic reagents
- Protein modification by endogenous chemicals
- Two-dimensional NMR studies of the structures of peptides and proteins in solution
- Plant secondary metabolites - aspects of their role in plants with emphasis on glucosinolates
- Quantum chemical investigation of the electronic structure and properties of molecules
- The psychonomic interface between physiology and psychology in the brain. Real-time neurochemistry
SCHEDULE OF GRADUATE SUBJECTS

MASTER OF SCIENCE

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<thead>
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<tr>
<td>CHEM918</td>
<td>Chemistry Report</td>
<td>16</td>
<td></td>
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<tr>
<td>CHEM919</td>
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MASTER OF SCIENCE (TECHNICAL ADMINISTRATION)

First Year Compulsory

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<td>MGMT911</td>
<td>Organizational Behaviour</td>
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<td>STS931</td>
<td>Risk Assessment, Health &amp; Safety</td>
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<td>CHEM921</td>
<td>Applied Chemistry Report</td>
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Options (one of the following)

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<td>MGMT912</td>
<td>Organization Structure &amp; Control</td>
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<td>The Dynamics of Technological Change</td>
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<td>MGMT976</td>
<td>Competitive Analysis</td>
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Second Year Compulsory

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<td>MGMT940</td>
<td>Innovation and Entrepreneurship</td>
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HONOURS MASTER OF SCIENCE - CHEMISTRY

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COURSE DESCRIPTIONS

1. MASTER OF SCIENCE

Introduction and Objectives

The objectives of this course are similar to those of the Honours Master of Science below. It is designed for applicants from Industry and Education, and for students who wish to proceed beyond the 3 year pass degree but for whom the research component of the Honours degree is inappropriate.

Structure

This is a 48 credit point coursework degree in which students do the subjects CHEM910, CHEM918 and CHEM 919, in accordance with the Pass Master Degree Regulations.

Entry to the Course

Students must consult the Head, Department of Chemistry, for approval of overall entry and for the choice of subjects in CHEM919.
**Pre-requisites**

The minimum pre-requisite is that the student must have graduated with at least 24 credit points of 300-level Chemistry subjects.

**2. MASTER OF SCIENCE (TECHNICAL ADMINISTRATION)**

**Introduction and Objectives**

Three major career routes are generally followed by Chemistry graduates: (i) the academic/research route involving an Honours year followed by a PhD research programme, (ii) teaching, requiring a subsequent Dip. Ed. course, and (iii) direct entry into manufacturing, service industry or government employment. In the last mentioned case, a second higher qualification in Chemistry is sometimes obtained such as a Master of Science in Chemistry (see above) after some industry/commercial experience has been gained.

The Master of Science (Technical Administration) - MSc.(Tech.Admin) - course is aimed at category (iii) graduates. While many chemists begin their industrial careers "at the bench", subsequent progression up the career ladder generally involves the assumption of considerable managerial responsibility. Both their functional efficiency and their career prospects would be enhanced by gaining familiarity with business concepts, language, and skills early in their careers. The course is also suitable for chemists in government laboratories desiring management training.

(1) The objectives of this proposed degree are therefore two-fold, namely to provide Chemistry graduates with:

(a) a sound grounding in the commercial and business studies area (management, marketing, finance, communication, etc.), as well as in the broader social and environmental implications of technology; and

(b) a greater insight into the industrial/commercial aspects of chemistry via a major literature survey and a research project in applied chemistry.

Close integration of the two strands will be achieved by the use of chemically based case studies in relevant management subjects, and by the use of the applied research project in CHEM990 as the basis for the hypothetical enterprise for which a business plan is developed in MGMT945.

**Structure of the Course**

This is a 96 credit point course extending over two years for full-time students, and four years for part-time students.

(2) It contains two complementary and integrated strands:

(a) 42 credit points of graduate Chemistry subjects, namely CHEM921 and CHEM990, the latter of which involves an applied research project and minor thesis;

(b) 54 credit points of graduate subjects covering topics in management, finance, marketing, communication, technology and innovation. These subjects are selected from the Schedule given below for the MSc(Tech.Admin) degree, and include a 48 credit point core taught by the Departments of Management (24 credit points), Science and Technology Studies (18 credit points) and Accountancy (6 credit points).

Detailed subject descriptions appear in the appropriate departmental section of this Handbook.

**Entry to the Course**

Entry will be restricted to ca. 6, and students must consult the Head, Department of Chemistry, for approval of overall entry and for the choice of topics and supervisors in CHEM921 and CHEM990.
Pre-requisites

The minimum pre-requisite is a BSc degree, or its equivalent, with a major in Chemistry.

3. 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 Regulations.

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 coursework subjects CHEM910 Selected Topics in Chemistry, CHEM918 Chemistry Report and CHEM919 Advanced Topics in Chemistry, described below. That is, they will take subjects to a value of 96 credit points.

Entry to the Course

This is subject to the approval of the Board of Research and Postgraduate Studies on the advice of the Head, Department of Chemistry.

Selection of Subjects

Students must consult the Head, Department of Chemistry, for approval of their proposed choice of subjects.

Pre-requisites

The minimum pre-requisite for all subjects is that the student must have graduated with at least 24 credit points of 300-level Chemistry subjects.

SUBJECT DESCRIPTIONS

CHEM910 SELECTED TOPICS IN CHEMISTRY

Double session; 16 credit points (56 hrs lectures, 56 hrs tutorials)

Compulsory for all students doing MSc in Chemistry by coursework, except for students who have passed CHEM411 Not to count with CHEM411

Assessment: Written examination and seminar

Topics chosen from:

Theories concerning the creation of life on Earth; Organic and Inorganic Geochemistry and its effect on environment; Vitamins, hormones and important common drugs; Introduction to Digital Instrumentation; The Basic Nature and desirable properties of Materials (e.g. ceramics, glasses, polymeric and composite materials); Chemistry through the Ages; Chemical Literature; Chemistry and Society; Computer Simulation of Complex Systems; and others added as required.

CHEM918 CHEMISTRY REPORT

Double session; 16 credit points (112 hrs tutorials)

Assessment: Substantial report

Under the supervision of staff appointed by the Head, Department of Chemistry, students will survey the chemical literature and prepare a report on a topic chosen by the supervising staff.
CHEM919 ADVANCED TOPICS IN CHEMISTRY

Double session; 16 credit points (56 hrs lectures, 56 hrs tutorials)
Assessment: Written examination and seminar

Advanced lecture topics drawn from organic chemistry, inorganic chemistry, physical chemistry and analytical chemistry. The material available in any given year will reflect student interest and the availability of staff.

CHEM 920 CHEMISTRY RESEARCH PROJECT

48 credit points
Assessment: Major thesis

Topic to be arranged in consultation with the Head, Department of Chemistry and approved by the Board of Research and Postgraduate Studies.

CHEM921 APPLIED CHEMISTRY REPORT

Double session; 18 credit points (120 hrs tutorials)
Assessment: Substantial report and seminar

Under the supervision of staff appointed by the Head, Department of Chemistry, students will survey the chemical literature, prepare a report, and present a seminar on a topic of relevance to the chemical industry chosen by the supervising staff.

CHEM990 APPLIED CHEMISTRY RESEARCH PROJECT

Single or double session: 24 credit points
Assessment: Minor Thesis

Under the supervision of staff appointed by the Head, Department of Chemistry, the student will undertake a research project and present a minor thesis and a seminar on an applied chemistry topic chosen by the supervising staff. This subject will be taken in conjunction with MGMT945 Technology Enterprise Project, where the new chemical process or product to be developed in the research project will form the hypothetical (or actual) basis of the enterprise for which a business plan is to be developed.
CIVIL ENGINEERING

INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Engineering (Public Works)
2. Honours Master of Engineering by Coursework or Research
3. Doctor of Philosophy

The schedules of subjects available for the Masters degree and the diploma are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject CIVL952 Thesis.

The specific requirements for the degree and the diploma and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

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 and finite strip methods
- Bridge engineering
- Structural dynamics
- Flood studies
- Hydraulics and hydrology
- Water and wastewater treatment
- Road construction materials
- Roads engineering
- Traffic engineering
- Microcomputer applications in analysis and design
- Computer-aided design and drafting

SCHEDULE OF GRADUATE SUBJECTS

GRADUATE DIPLOMA IN ENGINEERING (PUBLIC WORKS)

<table>
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<tr>
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<td>CIVL971</td>
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<td>CIVL972</td>
<td>Water Engineering</td>
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<tr>
<td>CIVL973</td>
<td>Roads and Streets</td>
<td>6</td>
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<tr>
<td>CIVL974</td>
<td>Traffic and Transportation</td>
<td>6</td>
</tr>
<tr>
<td>CIVL975</td>
<td>Environmental Planning</td>
<td>6</td>
</tr>
<tr>
<td>CIVL976</td>
<td>Power, Duties and Financial Management</td>
<td>6</td>
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<tr>
<td>CIVL977</td>
<td>Management and Industrial Relations</td>
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</tr>
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<td>CIVL978</td>
<td>Asset Maintenance Management</td>
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HONOURS MASTER OF ENGINEERING

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<td>CIVL902</td>
<td>Reliability in Geotechnical Engineering</td>
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<tr>
<td>CIVL903</td>
<td>Concrete Technology</td>
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<tr>
<td>CIVL904</td>
<td>Highway Materials</td>
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<td>CIVL905</td>
<td>Transportation Engineering</td>
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<td>CIVL906</td>
<td>Traffic Engineering</td>
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<td>CIVL907</td>
<td>Civil Engineering Computations</td>
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<td>CIVL908</td>
<td>Advanced Soil Mechanics</td>
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<td>CIVL909</td>
<td>Advanced Foundation Engineering</td>
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<td>CIVL910</td>
<td>Vibration of Structures</td>
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CIVIL ENGINEERING 89

HONOURS MASTER OF ENGINEERING (Cont’d)

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<td>CIVL913</td>
<td>Estuary and Coastal Engineering</td>
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<td>CIVL914</td>
<td>Analysis and Design of Bridge Structure</td>
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<td>CIVL915</td>
<td>Numerical Methods in Civil Engineering</td>
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<td>CIVL916</td>
<td>Research Topics in Civil Engineering</td>
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<td>CIVL923</td>
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COURSE DESCRIPTIONS

1. GRADUATE DIPLOMA IN ENGINEERING (PUBLIC WORKS)

Aims

The course is intended to provide specialised work in the areas of importance to Public Works and Local Government engineers. The areas covered will include:

(1) Acts, regulations and codes of practice.
(2) Financial analysis.
(3) Civil Engineering Practice.

Each subject offered will be rated at 6 credit points, and a total of 8 subjects (48 credit points) are required to fulfil the requirements.

Entry Requirements

The course is of 1 year's full-time or 2 years part-time study for those candidates who hold a Bachelor Degree.

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:

(1) Honours Master of Engineering Degree by coursework.
(2) Honours Master of Engineering Degree by research thesis.
(3) Honours Master of Engineering Degree by combinations of coursework and research thesis.

(a) The Honours Master of Engineering Degree by Coursework

The Honours Master of Engineering Degree by coursework is intended for engineers who have had some professional experience after graduating. It consists of lecture courses together with a project. The lectures and projects will be closely related where possible to the professional interests of those taking part.
(b) 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.

(c) 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.

Entry Requirements

Normally the course is of 1 year full-time or 2 years part-time study for those candidates who hold a Bachelor Degree with Honours Class II, Division 2 or higher. Applicants holding a Bachelor degree of a standard less than Honours Class II, Division 2 will have their program approved by the Board of Research and Postgraduate Studies after consultation with the Head of the Department of Civil and Mining Engineering.

SUBJECT DESCRIPTIONS

Credit Points

Each subject below, except where otherwise stated, has a credit point value of 5.

CIVL901 PROJECT

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; discussion of results of initial work.

With the approval of the Head of Department this subject may be taken by students who intend to enrol in an 8 credit point thesis. It will not be available to those students who enrol in a 28 credit point thesis.

CIVL 902 RELIABILITY IN GEOTECHNICAL ENGINEERING

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 probability of failure propagation and initiation, most probable extent of embankment or slope failure.
CIVL903 CONCRETE TECHNOLOGY

Mix design theories; design of high strength and lightweight concrete, elastic behaviour; strength, creep, shrinkage; significance of tests and properties of constituent materials; analysis of results; non-destructive tests; special concrete applications.

CIVL904 HIGHWAY MATERIALS

Soil and roadmaking aggregate surveys; compaction of soil; road construction with soil and low-grade aggregates; mechanical, cement, bituminous, and resinous stabilisation; constructional methods in soil stabilisation.


Pavement design and evaluation - a review of current Australian, European and North American Practice.

CIVL905 TRANSPORTATION ENGINEERING

Transport problems; urban travel demands; the transport planning process; travel-demand forecasting; trip generation analysis; model split analysis; trip distribution analysis; route assignment analysis; economic analysis; employment and population forecasts; evaluation of transport plans; airport engineering; classification, design standards, layout and development, terminal facilities, city-airport transport systems; urban transportation; railroad engineering; light rail rapid transit; pipeline transportation; belt conveyors - freight and passengers.

CIVL906 TRAFFIC ENGINEERING

Characteristics of vehicles, drivers and pedestrians; vehicle speeds, volumes, journey times; accident studies; traffic management; parking; traffic prediction; economic analysis.

CIVL907 CIVIL ENGINEERING COMPUTATIONS

(i) The use of problem oriented languages in solving Civil Engineering problems, including ICES STRUDL, COGO, ROADS, TRANSET, PROJECT, BRIDGE, SEPOL, LEASE, TRAVOL. In general these subsystems can be applied to Structural systems, co-ordinate geometry, roadway analysis, transportation networks, project engineering, bridge design, settlement problems, stability of slopes and traffic volume problems.

(ii) The development of general user programs using ICES Command Definition Language, Command Interpreter System, ICETRAN.

This subject will concentrate on STRUDL which is designed for application to a wide range of structural types, both two and three dimensional, including trusses, frames, plates and shells. Any combination of these components may be used with a variety of analysis and design procedures including linear elastic analysis, nonlinear 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. Input data includes member and structure boundary conditions, prismatic or variable section members, any number of loading conditions consisting of any number of uniform, linear, or concentrated member loads, uniform or concentrated member distortions and temperature loads, and joint loads and joint displacements.

CIVL908 ADVANCED SOIL MECHANICS

The principle of effective stress and its implications; stress paths in soil mechanics; problems of shear strength and failure; peak, residual and softened shear strengths for soil; pore pressure parameters A and B; the use of pore pressure parameters in practice; selected problems of stability and settlement; the analysis and performance of slopes; the factor of safety concept; stress analysis
approaches; introduction to soil dynamics.

CIVL909 ADVANCED FOUNDATION ENGINEERING

General principles concerning selection of foundation type on different types of soil; difficult ground conditions including collapsing and swelling soils; performance observations in geotechnical engineering; preventative and remedial measures against ground movement and slope failure; buoyancy rafts and basements; selected problems of foundation analysis and design; dam foundations; stress distribution and stress analysis; soil sampling and exploration; soil stabilisation including drainage.

CIVL910 VIBRATION OF STRUCTURES


CIVL911 FINITE ELEMENTS METHODS

Variational principles; element shape functions, "displacement" and "stress" formulations, curved and isoparametric elements; computer programming techniques; the finite strip procedure; analysis of plates, shells and axisymmetric structures; analysis of slab- and box-type bridge superstructures.

CIVL912 ENGINEERING HYDROLOGY

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 hydrographics; hydrograph synthesis by runoff - routing; design floods for rural and urban catchments.

CIVL913 ESTUARY AND COASTAL ENGINEERING

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.

CIVL914 ANALYSIS AND DESIGN OF BRIDGE STRUCTURES

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 strip procedure, finite element method and finite difference approach; computer program suites; design codes; design of super-structures; design of foundations.

CIVL915 NUMERICAL METHODS IN CIVIL ENGINEERING


CIVL916 RESEARCH TOPICS IN CIVIL ENGINEERING

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.

CIVL917 ENVIRONMENTAL ENGINEERING

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.

CIVL918 STEEL STRUCTURES

Steel behaviour. Hot rolled and cold-formed sections. Behaviour of hollow
sections. Plastic design. Local and lateral buckling. Elastic and inelastic buckling of elements and frames.

CIVL919 EARTH STRUCTURES

Location of earth structures such as embankments and earth dams; basic design considerations; analytical procedures including limit equilibrium methods and stress analysis; soft ground tunnelling; problems associated with earth structures including settlement cracking and subsidence; prevention and control of sub-surface erosion and piping; risk studies; maintenance and improvement of earth structures.

CIVL920 CIVIL ENGINEERING HYDRAULICS


CIVL921 WASTEWATER ENGINEERING

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 treatment; treatment plant design.

CIVL922 WATER SUPPLY ENGINEERING

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.

CIVL923 ADVANCED REINFORCED CONCRETE

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.

CIVL924 ADVANCED STUDIES IN COMPUTER AIDED DESIGN AND DRAUGHTING

Fundamentals of CADD; the workstation; hardware and software for CADD configurations; operation and facilities of CADD systems; AutoCAD, MeggaCAD, Prodesign II and other Micro-CAD systems; LISP language; programming with AutoLISP; customising AutoCAD, creating new commands, screen menus and tablet menus; CADD data-base, bill of materials; structural detailing; CADD management.

CIVL950 THESIS

Double session; 8 credit points

CIVL951 THESIS

Double session; 28 credit points

CIVL952 MAJOR THESIS

Double session; 48 credit points

CIVL971 ENVIRONMENTAL ENGINEERING

6 credit points

Aspects of public health; water supply and sewerage systems investigation and design; water treatment plant design; municipal wastewater treatment plant design; atmospheric pollution.

CIVL972 WATER ENGINEERING

6 credit points

Urban drainage design; design flood estimation techniques; culvert design;
flood-way design; detention basin design; erosion and scour protection; flood mitigation practice; coastal engineering.

CIVL973 ROADS AND STREETS

6 credit points
Pavement design, maintenance and construction; geometric design of roads, road capacity, aesthetics, sociological impact, and landscaping; road structures.

CIVL974 TRAFFIC AND TRANSPORTATION

6 credit points
Traffic management including analysis, signals, parking; traffic engineering including future projections, accidents and prevention, pedestrians, intersections and street lighting; transportation planning, including land use, impact on environmental land use, land values and community activities. Economics and cost benefit analysis of transportation proposals. Transportation Policies.

CIVL975 ENVIRONMENTAL PLANNING

6 credit points
Town and country planning; N.S.W. environmental planning legislation and processes; neighbourhood planning; development control processes and the Civil Engineer; national, state and regional planning; environmental impact assessment and traffic.

CIVL976 POWERS DUTIES AND FINANCIAL MANAGEMENT

6 credit points
The local government act 1919; ordinance; legal responsibilities and liabilities of councils; administration of government finances; accounting and cost control in local government; management statistics, collection, tabulation, statistical analysis and presentation.

CIVL977 MANAGEMENT AND INDUSTRIAL RELATIONS

6 credit points
Elements of management and industrial relations; corporate management; council committees and operation; financial management and budgets; words management and operations research; policies and delegation of authority; review processes, use of resources, accountability and effectiveness.

CIVL978 ASSET AND MAINTENANCE MANAGEMENT

6 credit points
Maintenance goals, policy, philosophy statistics and strategies; risk and loss potential; benefit cost analysis; criteria for evaluation and comparison of projects; management of assets and liabilities; sensitivity analysis; interest rates, inflation, taxation and depreciation.

CIVL999 ADVANCED TOPICS IN ENGINEERING

Double session; 48 credit points
Computer aided analysis and design; computer methods; concrete design; civil engineering materials; finite element techniques; hydrology; hydraulics; numerical techniques; reliability; rock mechanics, soil mechanics; simulation; structural analysis and design; structural topology; town planning; traffic planning; traffic engineering; transportation; highway engineering; urban investigations; structural dynamics; continuum mechanics.
The following postgraduate degrees and diplomas are available.

1. Graduate Diploma in Computing Science
2. Honours Master of Science by Research or Coursework
3. Doctor of Philosophy

The schedule of subjects available for the Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject CSCI993 Thesis.

SCHEDULE OF GRADUATE SUBJECTS

MASTER OF COMPUTING (re-enrolling students only)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<td>CSCI906</td>
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HONOURS MASTER OF SCIENCE

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<td>CSCI946</td>
<td>Advanced Topics in Computing Science F</td>
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<td>CSCI950</td>
<td>Advanced Operating Systems</td>
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<td>CSCI951</td>
<td>Computing Methods</td>
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<td>CSCI952</td>
<td>Combinatorial Algorithms</td>
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<td>CSCI953</td>
<td>Theory of Computing Science</td>
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<td>CSCI954</td>
<td>Artificial Intelligence</td>
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<tr>
<td>CSCI955</td>
<td>Computer Networks</td>
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<td>CSCI956</td>
<td>Robotics</td>
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<td>CSCI957</td>
<td>Advanced Data Bases</td>
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<td>CSCI958</td>
<td>Advanced Programming Languages</td>
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<td>CSCI959</td>
<td>Advanced Compilers</td>
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<td>CSCI993</td>
<td>Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

The specific requirements for each degree and diploma and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

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:

- Artificial Intelligence
- Fast packet switching
- Intelligent database design
- Robotics
- Small systems architectures
COURSE DESCRIPTIONS

1. GRADUATE DIPLOMA IN COMPUTING SCIENCE

The Graduate Diploma in Computing Science is designed to provide advanced studies in Computing Science at a professional level to graduates of this or another university who have some background in Computing Science. The expected level of Computing Science background will be equivalent to CSCI201 Computing Science II.

Subject to staff and resources some graduate subjects may not be available in any given year.

The Graduate Diploma in Computing Science shall be subject to the University regulations for the award of Graduate Diplomas together with the following conditions:

(1) The Graduate Diploma in Computing Science is a coherent program of study (48 credit points) which involves the successful completion of

(a) the subject CSCI411 Computing Science Honours Seminar (12 credit points); and

(b) subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science) to the value of 12 credit points; and

(c) further subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), and/or the Schedule of Graduate Subjects for the Honours Master of Science Degree (Mathematics), and/or the Mathematics Schedule to the value of 24 credit points.

(2) A candidate may not include in this program any subjects which the candidate has previously credited towards another degree or graduate diploma of the University.

(3) A candidate who accumulates failures in subjects to the value of 24 or more credit points shall be required to show cause why enrolment should be allowed to continue.

2. HONOURS MASTER OF SCIENCE

The degree of Honours Master of Science (MSc)(Hons) in the Department of Computing Science shall be subject to the University regulations 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, specialising in one or more of the following fields:

Artificial Intelligence; Fast Packet Switching; Intelligent Database Design; Robotics; Small Systems Architectures.

(2) Entry to the degree program will normally be from an Honours degree in Computing Science or from a pass degree with an appropriate 3 year sequence in Computing Science. Entry may also be approved by the Academic Senate for candidates with the qualification of Diploma in Computing Science on the recommendation of the Head of the Department of Computing Science.

(3) Where entry to the degree program has been approved from an Honours degree at a standard of Class II, Division 2 or higher or a Graduate Diploma in Computing Science, it will normally occupy two sessions of full-time or four sessions of part-time study, and shall involve one of the following:

(a) satisfactory completion of the subject CSCI993 which is a thesis embodying the results of investigation to the value of 48 credit points.

OR

(b) satisfactory completion of the subject CSCI992 which is a minor thesis embodying the results of an investigation whose credit
point value is 24, together with the satisfactory completion of

(i) subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science) to the value of 12 credit points; and

(ii) further subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), and/or the Schedule of Graduate Subjects for the Honours Master of Science Degree (Mathematics) to the value of 12 credit points;

OR

(c) satisfactory completion of the subject CSCI991 which is a substantial written project whose credit point value is 12 together with the satisfactory completion of

(i) subjects chosen from the Schedule of Graduate Subjects (for the Honours Master of Science Degree (Computing Science) to the value of 12 credit points; and

(ii) further subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), and/or the Schedule of Graduate Subjects for the Honours Master of Science Degree (Mathematics), and/or the Mathematics Schedule to the value of 24 credit points.

OR

(b) satisfactory completion of the subject CSCI992 which is a minor thesis embodying the results of an investigation whose credit points value is 24 together with the satisfactory completion of the Computing Science Honours Seminar whose credit point value is 12 and the satisfactory completion of

(i) subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), to the value of 12 credit points; and

(ii) further subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), and/or the Schedule of Graduate Subjects for the Honours Master of Science Degree (Mathematics), and/or the Mathematics Schedule to the value of 24 credit points.

(4) Where entry to the degree program has been approved from a degree at a standard below Honours Class II, Division 2 it will normally occupy four sessions of full-time study or eight sessions of part-time study, and shall involve one of the following:

(a) satisfactory completion of the subject CSCI993 which is a thesis embodying the results of an investigation whose credit point value is 48 together with the satisfactory completion of the Computing Science Honours Seminar whose credit point value is 12 and the satisfactory completion of

(i) subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), to the value of 12 credit points; and

(ii) further subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), and/or the Schedule of Graduate Subjects for the Honours Master of Science Degree (Mathematics), and/or the Mathematics Schedule to the value of 24 credit points; and
(iii) further subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), and/or the Schedule of Graduate Subjects for the Honours Master of Science Degree (Mathematics) to the value of 24 credit points.

OR

(c) satisfactory completion of the subject CSCI991 which is a substantial written project whose credit point value is 12 together with the completion of the Computing Science Honours Seminar whose credit point value is 12 and the satisfactory completion of

(i) subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science) to the value of 12 credit points; and

(ii) further subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), and/or the Schedule of Graduate Subjects for the Honours Master of Science Degree (Mathematics) to the value of 36 credit points; and

(iii) further subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Computing Science), and/or the Schedule of Graduate Subjects for the Honours Master of Science Degree (Mathematics) and/or the Mathematics Schedule to the value of 24 credit points.

(5) A candidate may not include in this degree program any subject which the candidate has previously taken and had credited towards another degree or graduate diploma of the University.

(6) All subjects chosen from either the Schedule of Graduate Subjects for the Honours Master of Science Degree or the Mathematics Schedule of the Bachelor Degree Regulations for inclusion in the degree program staff be subject to the approval of the Head of the Department of Computing Science.

(7) Not all graduate subjects will necessarily be available during a given year.

(8) Notwithstanding the conditions relating to the limitation of time for the degree of Honours Master of Science, the registration of a candidate will be subject to termination if that candidate fails subjects to the total value of 18 or more credit points.

(9) Each candidate for the degree program under 3(c) or 4(c) shall be assigned a supervisor by the Head of the Department of Computing Science. Where a candidate has enrolled in a degree program that includes either a thesis or a minor thesis the Academic Senate shall appoint a supervisor on the recommendation of the Head of the Department of Computing Science.

(10) The graduate project referred to in 3(c) and 4(c) shall be assessed by two examiners appointed by the Head of the Department of Computing Science.

SUBJECT DESCRIPTIONS

CSCI901 MASTER OF COMPUTING PART 1

12 credit points

An introduction to the fundamental concepts of computing science. Topics to be covered will include: problem solving, algorithm design and program development; general features of system components and their relationships. The implementation language used will be Pascal.
CSCI902 MASTER OF COMPUTING PART 2

12 credit points

The general techniques of programming are applied in specific fields. The topics to be covered will include: machine level programming in assembly language, scientific applications using FORTRAN 77; business applications using COBOL and system applications using the implementation language C.

CSCI903 MASTER OF COMPUTING PART 3

12 credit points

The application of the previous knowledge and skills to the field of microcomputers is treated in this subject. Topics to be covered will include: microcomputer systems; microcomputer architecture; programmable interface adaptors and applications of microcomputers to a variety of control situations.

CSCI904 MASTER OF COMPUTING PART 4

12 credit points

The subject extends the knowledge, skills and technique in the areas treated in CSCI901 and broadens the student's competence by treating topics which will include: data structures and their representation; advanced programming techniques and the application of data structures to specify programming situations. The implementation language used will be Pascal.

CSCI905 MASTER OF COMPUTING PART 5

12 credit points

This subject will take the form of a reading course designed for each student in consultation with the Head of the Department and the Graduate Coordinator in the Department. It is possible that, in consultation with other Faculties, a broad range of options will be available to meet the needs of the individuals.

CSCI906 MASTER OF COMPUTING PART 6

12 credit points

This subject draws together the student's knowledge and skills developed throughout the previous five subjects and provides the student with an opportunity to display this mastery by completing a substantial project.

Topics will include aspects of software engineering together with aspects of work drawn from these areas of computing which have particular relevance to the individual candidate's project.

CSCI941 ADVANCED TOPICS IN COMPUTING SCIENCE A

CSCI942 ADVANCED TOPICS IN COMPUTING SCIENCE B

CSCI943 ADVANCED TOPICS IN COMPUTING SCIENCE C

CSCI944 ADVANCED TOPICS IN COMPUTING SCIENCE D

CSCI945 ADVANCED TOPICS IN COMPUTING SCIENCE E

CSCI946 ADVANCED TOPICS IN COMPUTING SCIENCE F

6 credit points

Topics will be selected from those areas of computing science in which visiting staff members of the department are engaged in active research.

CSCI950 ADVANCED OPERATING SYSTEMS

6 credit points

This course will involve the study of the implementation of an actual operating system and of problems associated with the porting of systems amongst different computers.

CSCI951 COMPUTING METHODS

6 credit points
This subject focusses on the formal aspects of problem specification and the use of such specifications in program development and constructive program proofs.

**CSCI952 COMBINATIONAL ALGORITHMS**

*6 credit points*


**CSCI953 THEORY OF COMPUTING SCIENCE**

*6 credit points*

Theory of computation; formal language and automata theory; recursive function and fixed point theory; computability theory; the lambda calculus. Program verification and the semantics of programming languages. Complexity theory; abstract and concrete complexity; NP-completeness.

**CSCI954 ARTIFICIAL INTELLIGENCE**

*6 credit points*


**CSCI955 COMPUTER NETWORKS**

*6 credit points*


**CSCI956 ROBOTICS**

*6 credit points*


**CSCI957 ADVANCED DATA BASES**

*6 credit points*


**CSCI958 ADVANCED PROGRAMMING LANGUAGES**

*6 credit points*

Problems of programming language design and their solutions. Topics may include formal semantics, implementation considerations, extensibility, very high level languages, evaluation of language designs.

**CSCI959 ADVANCED COMPILERS**

*6 credit points*

Implementation issues for compilers. Topics may include error detection, correction and recovery, compiling languages with unusual features, comparison of alternative parsing algorithms and differing run-time organizations, optimization methods, code generation, problems of portability.

**CSCI991 PROJECT**

*12 credit points*

**CSCI992 MINOR THESIS**

*24 credit points*

**CSCI993 THESIS**

*48 credit points*
CREATIVE ARTS

INTRODUCTION

The following postgraduate degrees are available:

1. Master of Creative Arts
2. Honours Master of Arts
3. Doctor of Creative Arts
4. Doctor of Philosophy

The schedules of subjects available for the Masters degrees are set out below.

For the Doctor of Creative Arts and Doctor of Philosophy degrees candidates enrol in AACA901 Thesis Creative Arts.

The specific requirements for each degree and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

SCHEDULE OF GRADUATE SUBJECTS

MASTER OF CREATIVE ARTS

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<th>Number</th>
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<td>AAMM911</td>
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HONOURS MASTER OF ARTS

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<tr>
<td>AACA905</td>
<td>Advanced Topics in Creative Arts</td>
<td>48</td>
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</tbody>
</table>

COURSE DESCRIPTIONS

1. MASTER OF CREATIVE ARTS

The Master of Creative Arts is a pass masters degree which consists of a major presentation of creative work and two courses in related, practical and theoretical studies.

Applicants for registration for the degree of Master of Creative Arts shall have qualified for a degree of the University or possess an equivalent qualification from another approved institution (5(i)).

Under Regulation 5(2) an applicant who does not hold a degree or its equivalent may be permitted to register provided that the applicant submits evidence of such tertiary, academic and professional attainment as may be approved. Evidence of artistic attainment submitted by applicants for the degree of Master of Creative Arts should include:
(i) the submission by the candidate of three (3) testimonials from recognised professional artists or academics in a tertiary institution; and

(ii) audition before a selection committee headed by the Head of School; and

(iii) the submission by the candidate of evidence of a minimum of 5 years successful professional experience in his/her field (exhibitions, awards, scholarships, etc.).

Candidates are required to complete subjects making up 48 credit points from the following:

1. 2 units of coursework, each of 12 credit points
2. Major presentation 24 credit points.

2. HONOURS MASTER OF ARTS

Candidates for this degree undertake study in Music, Visual Arts, Theatre or Writing. Candidates may undertake a study which deals with the relationships between specific areas of arts practice.

Candidates with Honours Class II Division 2 degree or higher or its equivalent, enrol in AACA901, Thesis Creative Arts. Other candidates will be required to also enrol in AACA905 Advanced Topics in Creative Arts.

3. DOCTOR OF CREATIVE ARTS

The Doctor of Creative Arts is a doctoral degree based on presentation of creative work and supported by written documentation of the work.

Requirements for admission:

Under Regulation 6(1) an applicant for registration as a candidate for the Doctor of Creative Arts shall have qualified for a degree of Bachelor with Honours Class II, Division 2 or higher. If this degree or equivalent is not in creative arts practice, the applicant must also submit evidence of artistic attainment to an approved standard.

Under Regulation 6(2), an applicant who has not qualified under 6(1) may be permitted to register in the degree of Doctor of Creative Arts provided that the applicant submits evidence of such artistic professional and academic attainments as may be approved.

The degree of Doctor of Creative Arts will be offered in the following areas:

Music: Music Performance
       Music Composition
       Musicology
Theatre: Theatre Performance
         Directing
         Theatre Technology/Design
Visual Arts: Ceramics
         Drawing
         Painting
         Printmaking
         Sculpture
         Textiles
Writing: Poetry
       Prose Fiction
       Script Writing

Candidates may undertake work which combines more than one of these areas.

The submission of the DCA will normally be by exhibition, performance or publication, supported by substantial written documentation analysing such aspects as origins of the work, structures and techniques used, artistic theories underpinning the work and critical evaluation of the work. In many cases it will be appropriate to support written documentation with documentation in other forms e.g. photographic, sound and video recordings, etc.

4. DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is offered in the following areas:

Music: Music Performance
       Music Composition
       Musicology
Theatre: Theatre Performance
         Directing
         Theatre Technology/Design
Visual Arts: Ceramics
         Drawing
         Painting
         Printmaking
         Sculpture
         Textiles
         Visual Arts Theory
Candidates may undertake a study of the relationships of more than one of these areas.

Candidates for the PhD. in Creative Arts shall normally submit by written thesis. However, with the approval of the Head of School a candidate may be permitted to submit by a combination of written thesis and creative work. The written thesis shall constitute the major part of the work. In all cases a candidate must perform satisfactorily in both components to be awarded the degree.

SUBJECT DESCRIPTIONS

AACA901 THESIS CREATIVE ARTS

48 credit points

This subject may be taken in the following areas:

Music: Music Performance
        Music Composition
        Musicology

Theatre: Theatre Performance
        Directing
        Theatre Technology/Design

Visual Arts: Ceramics
            Drawing
            Painting
            Printmaking
            Sculpture
            Textiles
            Visual Arts Theory

Writing: Poetry
        Prose Fiction
        Script Writing

Examination of the subject will be by thesis, or by thesis and presentation or performance of creative work.

For the DCA, examination will be by presentation or performance of creative work with appropriate analytical documentation.

AACA905 ADVANCED TOPICS IN CREATIVE ARTS

48 credit points.

The following course work areas are available for advanced study (research and/or analysis):

Music: Studies in Performance
        Composition Studies
        Musicology and Musical Analysis

Theatre: Theatre Performance
        Directing
        Theatre Technology/Design

Visual Arts: Ceramics
            Drawing
            Painting
            Printmaking
            Sculpture
            Textiles
            Visual Arts Theory

Writing: Poetry
        Prose Fiction
        Script Writing

Candidates may undertake a study of the relationships of more than one of these areas.

AAMM910 MUSICAL ANALYSIS

12 credit points

Students will be expected to have a secure grounding in analytical techniques (from Tovey to Schenker and beyond). Attendance at Musical Analysis seminars (two hours per week) will be compulsory. In addition, the candidate will be expected to make detailed analyses in specialist areas (e.g. late Beethoven string quartets, piano works of Boulez, Schumann Symphonies) which display original, creative and thorough thinking to an advanced level. Work should be in dissertation form.

AAMM911 STUDIES IN TECHNIQUES

12 credit points

Students may study in any practical musical area (composition, conducting, instrumental playing or singing). Students will be required to develop and refine their techniques until they have achieved a high professional standard. The course will include working with University Ensembles and will culminate in a recital, concert or public performance.
AAVA901 VISUAL ARTS THEORY

12 credit points

Candidates will be required to attend and participate fully in a series of lectures and tutorials dealing with visual arts theory and the history of art. One seminar paper of 3,000 words on issues arising out of the candidate's studio practice will be presented in Session II.

AAVA911 STUDIO ANALYSIS

12 credit points

Candidates will be expected to work at an advanced level and with a high degree of independence in their chosen studio discipline. The final exhibition/presentation must demonstrate a questioning and exploratory attitude to form and content. The work must be imaginative, original and considered, with a high level of technical proficiency. Students will be expected to discuss their ongoing studio projects, ideas and preparatory work with their supervisors each week. Informal reviews of work will take place twice a session before a panel of staff and invited students.

AATM 910 THEATRE ANALYSIS

12 credit points

This course will be presented through weekly tutorials dealing with research into a particular aspect of theatrical production or technology, according to the needs and specialisations of the students involved. Examples of research might include such topics as Theatre in Education in N.S.W. or Types and Styles of Professional Productions in Sydney over the past decade.

The student will be expected to apply appropriate procedures and methodology in higher research.

AATM911 ADVANCED TECHNIQUES IN THEATRE

12 credit points

In weekly 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, some of which may be unfamiliar to them. Students will be required to make written evaluations of the techniques explored.

AACW911 LITERARY COMPOSITION

12 credit points

In this course, candidates 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. Candidates 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.

AACW910 ANALYSIS OF TEXTS

12 credit points

This course will be concerned with a detailed study of relevant texts in the candidate's specialisation, which may be in poetry, drama or prose fiction. The course will develop and refine the ability to trace in detail the relationship between the effects gained by a text and the techniques of writing used to achieve them. To some extent the course will resemble advanced literary criticism, except that the emphasis will be on the techniques of the writer rather than the reader's response.

AACA913 MAJOR PRESENTATION

24 credit points

Students will be required to undertake a major project on a topic decided upon after consultation with their supervisor. This project may be either research based or performance based. That is, presentation may be by thesis, or it may be by exhibition, performance, presentation of a fictional text etc. Some theoretical explication of the work, however, may be required in the case of performance based presentations. Assessment will be by a panel of examiners (including one external
INTRODUCTION

The following degrees are available:

1. Honours Master of Arts by Coursework or Research
2. Honours Master of Commerce by Coursework or Research
3. Doctor of Philosophy

The schedules of subjects for the Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject ECON993 Thesis.

The specific requirements for each degree and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Masters degrees by research and the Doctor of Philosophy degree:

Regional Economic Research
Analysis of safety statistics and procedures at Australian Iron and Steel
Decentralisation in Australia
Impact of the Port Kembla coal loading facility expansion on the regional traffic programme

Other Research Areas
The relationship between income taxes and the distribution of income
The effect of the tax system on capital investment decisions
The economics of crime and the criminal justice system
Models of flood mitigation
National income and expenditure accounts
Exchange rate determination
Econometric modelling

SCHEDULE OF GRADUATE SUBJECTS

Honours Master of Arts*

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<td>ECON905</td>
<td>Input-Output Analysis</td>
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<td>ECON906</td>
<td>History of Economic Thought</td>
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<td>ECON907</td>
<td>Cost Benefit Analysis</td>
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<td>ECON908</td>
<td>Advanced Topics in the Economics of Development</td>
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Methodology of estimating regional input/output tables

Economics of Developing Countries
Agricultural development in Papua-New Guinea and Indonesia
Employment and production in plantation agriculture in P.N.G.
Overseas investment in Fiji
The role of natural resources in economic development
Turnpike optimality in input/output systems
Rural employment and development in Indonesia

Industrial Relations
Trade union response to technological change
Trade union history and the development of trade unionism
Regional industrial relations agreements
Industrial democracy

Other Research Areas
The relationship between income taxes and the distribution of income
The effect of the tax system on capital investment decisions
The economics of crime and the criminal justice system
Models of flood mitigation
National income and expenditure accounts
Exchange rate determination
Econometric modelling
## HONOURS MASTER OF ARTS* (Cont’d)

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<td>ECON920</td>
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* See NOTE 1 at foot of Accountancy Schedule

## HONOURS MASTER OF COMMERCE*

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* See NOTES under the Department of Accountancy subject list for the ‘Honours Master of Arts’.

COURSE DESCRIPTIONS

1. HONOURS MASTER OF ARTS

A. 1. Candidates who have completed at an acceptable standard the requirements for the award of the BA(Hons) in Accountancy, Economics or Management at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MA(Hons) degree by completing at honours standard any one of the courses of study listed below under the Honours Master of Commerce degree.

2. See corresponding comments below under the Honours Master of Commerce degree, Economics.

3. See corresponding comments below under the Honours Master of Commerce degree, Economics.

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 in accordance with the requirements (1) to (3) above.

2. HONOURS MASTER OF COMMERCE

A. 1. Candidates who have completed the requirements for the award of the BCom(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 MCom(Hons) degree by completing at honours standard any one of the following courses of study.

(i) Thesis (48 credit points).

or (ii) Project (12 credit points, Accountancy; 16 credit points, Economics) plus coursework to aggregate not less than 48 credit points.

or (iii) Research report (24 credit points) and coursework aggregating not less than 24 credit points.

or (iv) Coursework aggregating not less than 48 credit points.

2. Subjects are to be selected from 900-level subjects offered by either the Department of
Accountancy, the Department of Economics, or the Department of Management, and included in the Schedule of Graduate Subjects; provided that:

(a) A combination of Economics and Accountancy subjects may be approved by the Heads of the two Departments, and

(b) 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 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.).

3. 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 of 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 (1) to (3) above.

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 5(3) of the Honours Masters Degree Regulations may have their enrolment cancelled in the event that the preliminary program or designated subjects is not completed at the appropriate standard.

SUBJECT DESCRIPTIONS

Composition of Courses:

Three hours lectures/seminars per week.

Assessment:

Continuous assessment by written assignments and Departmental examinations.

ECON901 MONETARY ECONOMICS

8 credit points

The course 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 course will be based on the formal articles in which most of the debates have been carried.

**ECON902 ADVANCED INTERNATIONAL MONETARY ECONOMICS**

*8 credit points*

Foreign exchange markets; banking and financial institutions; money supply, price level and international adjustment; international monetary system.

**ECON903 PUBLIC FINANCE**

*8 credit points*

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

**ECON904 PUBLIC SECTOR ECONOMICS**

*8 credit points*

The course examines the public sector as an economic entity in an industrial economy. The concept of a public good is discussed and the question of what goods the government should provide is examined. The growth of the public sector is analysed and the undernourishment thesis is examined. Public enterprises' pricing policies, goals, and efficiency are then examined. Finally the interaction between private and public sectors is considered.

**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.

**ECON907 COST-BENEFIT ANALYSIS**

*8 credit points*

The main objective of the course is to develop skills in appraising public sector (and other) investment projects. These skills are sought through a study of the role and theory underlying cost-benefit analysis. The course contains a practical component involving the appraisal of specific investment projects.

Topics covered will include: welfare economics; the derivation of analytical criteria for investment appraisal; the identification and valuation of benefits and costs; shadow prices for imperfect factor and product markets; unpriced goods and services; multiple objective planning; and the incorporation of risk and uncertainty.

**ECON908 ADVANCED TOPICS IN THE ECONOMICS OF DEVELOPMENT**

*8 credit points*

The course 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.

**ECON911 ADVANCED INTERNATIONAL ECONOMICS**

*8 credit points*

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)

**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 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.

**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.

**ECON914 ECONOMICS OF SOCIAL WELFARE I**

*8 credit points*

A study of the theoretical basis of economic policy decisions and the economic significance of criteria adopted or proposed for policy decisions about the use of public goods or about conditions affecting the use of private goods.

**ECON915 ECONOMICS OF SOCIAL WELFARE II**

*8 credit points*

The course is concerned with aspects of the distribution of income. Various theories of distribution are studied, and these are related to welfare economics. In addition, there is considerable emphasis on empirical studies of functional and personal income distribution in various countries. The impact of the government sector on income distribution is studied. Particular emphasis is placed on the measurement of poverty and the economic measures which might be used to alleviate poverty.

**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.

**ECON920 WORK EXPERIENCE AND REPORT**

*24 credit points*

At the invitation of the Head of the Department, students may undertake a period of supervised work experience with a substantial report thereon.

**ECON921 ECONOMETRIC MODELS**

*8 credit points*

This is an applied course in econometric model building. Both single-equation and simultaneous multi-equation models will be analysed. Emphasis is on building a model with economic content, on obtaining robust estimates, on model evaluation and selection. The role played by a priori or
subjective information will be discussed. Examples from Australian economy-wide econometric models in use will be critically examined.

ECON930 PERSONNEL MANAGEMENT

8 credit points

An integrated inter-disciplinary study of the subject area; the Economics contribution is based on the study of the supply of and demand for human resources both in the organisation of the individual management unit and in macroeconomic terms.

ECON932 ECONOMIC ANALYSIS OF THE BUSINESS ENVIRONMENT

6 credit points

The subject explains both the macroeconomic and the microeconomic frameworks within which the business enterprise operates. Special attention will be given to current issues of economic policy, problems facing the Australian economy as they affect the corporate sector, and the role of macro-economic forecasts in evaluating the business environment.

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

ECON948 EMPLOYERS AND INDUSTRIAL RELATIONS

8 credit points

The objective of this course 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.

ECON950 INDUSTRIAL RELATIONS POLICY

8 credit points

Assessment: assignments, project report

The subject surveys in depth a number of key industrial relations policy issues at macro and micro levels, such as: the impact on industrial relations of the introduction of new technology, incomes policy, industrial democracy, women in the workforce, public sector industrial relations, and occupational health and safety.
ECON954  INDUSTRIAL RELATIONS IN AUSTRALIA

6 credit points. Not to count with ECON964.

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.

ECON956 ADVANCED INDUSTRIAL RELATIONS PROCESSES

8 credit points

This subject is designed for students who are industrial relations practitioners, or who wish to become so. It develops concepts and techniques at an advanced level for the choice and evaluation of strategies and tactics in collective bargaining processes in a wider industrial relations context. Much of the subject methodology will be based upon case studies, role playing, and where feasible, instruction and supervision by practitioners in workplace projects.

ECON962 THE ECONOMIC FRAMEWORK FOR DECISION MAKING - A

8 credit points. Not to count with ECON952.

An introduction to the economic framework for decision making. Topics include: marginal analysis and decisions; managerial objectives, profit and uncertainty; cost analysis, advertising and price theory; competition and industrial market structures; implications of monetary and fiscal policy for the firm; and the influence of international trade on the domestic economic framework.

ECON963 STATISTICAL TECHNIQUES FOR DECISION MAKING - A

8 credit points. Not to count with ECON953.

A survey of quantitative tools commonly used by managers. Topics will include descriptive and inferential statistics; regression and correlation analysis, sampling; significance testing; decision-tree models; forecasting; queuing models and linear programming. Applications will be in microeconomic aspects of managerial decision making such as the empirical estimation of demand schedules and the analysis of production decisions.

ECON964 INDUSTRIAL RELATIONS IN AUSTRALIA - A

8 credit points. Not to count with ECON954.

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.

ECON991 PROJECT

16 credit points

ECON992 RESEARCH REPORT

24 credit points

ECON993 THESIS

48 credit points
EDUCATION

INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Education
2. Graduate Diploma in Educational Studies
   (a) Computers in Education*
   (b) Health Education*
   (c) Literacy/English as a Second Language Education
   (d) Secondary Mathematics Education*
3. Master of Education
4. Master of Education (Honours)
5. Master of Arts (Honours)
6. Doctor of Philosophy

* Not on offer in 1989
+ Offered to commencing students every alternate year.

The specific requirements for each degree and diploma, and the descriptions of the subjects are set out in the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject EDUC900 Thesis.

CURRENT RESEARCH AREAS

School of Learning Studies
The School of Learning Studies has research interests in:

- Cognition and Thinking Processes;
- Cultural and Environmental Studies;
- Curriculum Studies; and
- Language Education.

School of Policy and Technology Studies in Education
The School of Policy and Technology Studies in Education conducts research in

- Policy Studies,
- Applied Technology, and in
- Health and Physical Education.

SCHEDULE OF GRADUATE SUBJECTS

GRADUATE DIPLOMA IN EDUCATION

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GRADUATE DIPLOMA IN EDUCATIONAL STUDIES (COMPUTERS IN EDUCATION)

Year 1
Stage 1
EDCM861 Introduction to Computers in Education 6 1
EDMA861 Computing I 6 1

Stage 2
EDEF861 Theories of Learning 6 2
EDMA862 Computing II 6 2

Year 2
Stage 3
EDEF862 Advanced Curriculum Theory & Practice 6 1
EDCM862 Computer Resources in Teaching 6 1

Stage 4
EDEF863 Social Implications of Computers 6 2
EDCM863 Computer Resources Project 6 2

GRADUATE DIPLOMA IN EDUCATIONAL STUDIES (LITERACY)

Year 1 Core Studies
Stage 1
EDRE860 Language Development I 6 1
EDRE862 Context of Learning 6 1

Stage 2
EDRE861 Language Development II 6 2
EDRE863 Literacy Development 6 2

Year 2 Literacy Strand
Stage 3
EDRE867 Literacy Processes 6 1

Stage 4
EDRE869 Methodology & Organisation in Literacy Education 6 2

Stages 3 & 4
EDRE868 Evaluation of Literacy 6 A
EDRE870 Independent Study 6 A

Note: Students wishing to vary the 4 stage pattern are required to discuss their program with the Course Co-ordinator.
GRADUATE DIPLOMA IN EDUCATION STUDIES (ENGLISH AS A SECOND LANGUAGE)

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Note: Students wishing to vary the 4 stage pattern are required to discuss their program with the Course Co-ordinator.

MASTER OF EDUCATION

Research Subjects

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<td>EDUC913 Minor Project in Education</td>
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Subjects in the Areas of Specialisation

Children's Literature

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<td>EDSL901 Children's Literature and Modern Linguistics</td>
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<td>EDSL902 Children's Literature and Games Authors Play</td>
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<td>EDSL903 Children's Literature: Patterns in Narrative</td>
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Cognitive Processes

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together with any one subject selected from the specialisations Educational Psychology and Special Education.
### Master of Education (Cont'd)

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<td>Adapted Physical Education</td>
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<td>EDSP914</td>
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### Policy Studies in Education

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<td>Policy Research and Policy Analysis</td>
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<td>A Comparative Approach to Policy in Education</td>
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<td>Philosophy of Education and Theories of Education</td>
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<td>Classroom Inquiry for Teachers</td>
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<td>Seminar in Educational Anthropology</td>
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### HONOURS MASTER OF EDUCATION

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1. GRADUATE DIPLOMA IN EDUCATION

The Graduate Diploma is a professional course in education for graduates of this or another approved university who seek teacher qualifications. It also serves as an introduction to the research disciplines of education for those who will later pursue higher studies in the field.

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 degree to teaching requirements. Students are advised to consult staff and the course handbook before purchasing textbooks.

The main aim of the course is to provide a professional course of preservice 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 the students in professional aspects, including classroom practice, at the beginning of the course. Underpinning the professional aspects are curriculum studies, integrated with theoretical aspects.

The three strands offered (Professional, Curriculum and Perspectives in Education) are intended to develop concepts and skills relating to the development of knowledge and competence in teaching. It is hoped that prospective teachers will develop their own self esteem and will be competent, innovative and capable of contributing to the formulation of curriculum in schools.

The course is for one year full-time. The various subjects involve lectures, seminars, tutorials, individual assignments and group exercises. Demonstrations of teaching methods and practice teaching are provided in cooperation with local schools.

Students are advised that the 1989 course will be somewhat different from that of 1988. With the new structure it will be more difficult for students to pursue the course part-time. Students who have enrolled part-time prior to 1989 will be accommodated on an individual basis so as to take their particular circumstances into account wherever possible.

Assessment: Assessment for all subjects in the Graduate Diploma in Education will vary according to the type of program offered by individual lecturers. Students must satisfactorily complete every subject in their program of study before the Diploma will be awarded. More specific details of assessment will be given in individual subject outlines.

Attendance: Details of lecture contact hours, and other time commitments expected of students, are outlined in the Graduate Diploma of Education Handbook distributed to students at the beginning of the academic year.

Course Outline: Students are required to complete subjects as set out below, with a total of 48 credit points:

For those students pursuing secondary school methods:
EDUC800 PROFESSIONAL STUDIES A 8 credit points
EDUC816 PROFESSIONAL STUDIES B 8 credit points
EDUC817 CURRICULUM STUDIES 8 credit points
EDUC818 PERSPECTIVES IN EDUCATION A 8 credit points
EDUC819 PERSPECTIVES IN EDUCATION B 8 credit points
and 8 credit points of Secondary Methods

For those students pursuing primary school methods:
EDUC800 PROFESSIONAL STUDIES A 8 credit points
EDUC816 PROFESSIONAL STUDIES B 8 credit points
EDUC817 CURRICULUM STUDIES 8 credit points
EDUC818 PERSPECTIVES IN EDUCATION A 8 credit points
EDUC820 PERSPECTIVES IN EDUCATION C 4 credit points
and 12 credit points of Primary Methods
Methods Subjects: Students are required to complete successfully two methods (Secondary), or two methods (Primary). Assessment procedures will be outlined by the lecturer concerned.

(1) These subjects will:
   (a) examine the implications of the conceptual frameworks, and
   (b) apply the knowledge, strategies and skills, established in the other strands of the course, to
   (c) the study of the specific school curricula in the areas of specialisation chosen by the students, and
   (d) the implementation of these curricula in the schools.

(2) The topics studied will include:
   (a) the aims of the curriculum and their relationship to the aims of education,
   (b) educational perspectives relevant to the subject area,
   (c) the establishment of an appropriate learning environment,
   (d) teaching styles, strategies and skills as they apply to the presentation of the curriculum,
   (e) programming, unit writing and lesson planning as they apply to the curriculum,
   (f) student assessment and evaluation of the learning programs and teacher performance in relation to the presentation of the curriculum, and
   (g) classroom management, relevant to the presentation of the curriculum, and
   (h) the survey and evaluation of contemporary resources.

Teaching Methods on offer 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, Ms. Jan Black regarding the correct combination of methods which will satisfy requirements of the NSW Department of Education.

2. GRADUATE DIPLOMA IN EDUCATIONAL STUDIES

(a) Computers in Education

This course is designed to enable teachers holding at least a Diploma in Teaching to extend their knowledge of the use of computer technology in teaching.

The course consists of eight subjects which will be available by part-time study over a period of two years.

(b) Health Education

This course, offered by external study, is designed to enable primary and secondary school teachers to develop their expertise in health education.

The course will provide educators with an opportunity to gain specialist knowledge in the health discipline and to examine critically attitudes associated with health issues and concepts at both individual and community levels. Students will develop skills in selecting, constructing and implementing appropriate teaching programs and resource material. Students will be able to integrate effectively health knowledge, concepts and skills into a functional teaching program designed for particular school settings.

*Not on offer in 1989. For schedule and content of subjects, see 1985 Calendar Vol. III, or refer to Faculty of Education

(c) Literacy/English as a Second Language Education (Part-Time External)

This course is designed for teachers and others who are concerned either with literacy education (i.e. reading, writing,
spelling, oral language) or with teaching English as a second language. The needs of all learners are catered for, from kindergarten to year 12 and beyond.

The course is divided into two sections. Work in the first two stages (first year) looks at the nature of language and at patterns of both oral and written language development for first and second language learners. There is also a subject which looks at the social and cultural contexts of learning. All students in the course take these subjects, which are intended to provide essential background to later, more specialised work.

In stages 3 and 4 (second year) students choose to specialise in either literacy education for English speakers, or in teaching English as a second language. In both strands the themes of literacy education for English speakers and non-English speakers will be treated, but with different emphases.

In the Literacy strand students will study topics such as the reading process, the writing process, remediation and diagnosis of reading and writing problems; children's literature, classroom organisation and strategies for teaching the skills of literacy.

The ESL strand looks at the foundations of ESL education; the assessment of needs; program design; and approaches, methods and techniques in ESL education.

The course is designed to be practical in its emphasis, building on teachers' expertise wherever possible, and working towards the development of a methodology which is applicable to teachers' own classrooms.

Appropriate arrangements will be made to cater for the needs of students not proceeding through the original program at the normal rate, as defined in the schedule following. Such students will need to consult with the course co-ordinator at the time of enrolment.

(d) Secondary Mathematics Education

This course has been designed to enable teachers of Secondary Mathematics to upgrade their knowledge of mathematics education and to improve their own mathematical ability.

There are eight subjects which comprise the graduate diploma; three in mathematics education including a research project and five in advanced mathematics.

This course is presented externally over two years. Vacation Schools may be required for some of the subjects. Textbooks, unless specified, are to be advised.

*Not on offer in 1989. For schedule and content of subjects, see 1985 Calendar Vol. III, or refer to Faculty of Education.

3. MASTER OF EDUCATION

Rationale: The Master of Education is an introductory higher degree allowing two alternative patterns of study. One pattern focuses on the professional development of educators and the other pattern has a research orientation for candidates interested in pursuing study beyond this degree.

Patterns of Study:
Either the professional development program

EDUC910 Introduction to Educational Research Methodology (8 credit points) and 24 credit points in an area of specialisation and 16 credit points of electives.

Or the research orientation program, for students wishing to proceed to M Ed (Hons)

EDUC910 Introduction to Educational Research Methodology (8 credit points) and 8 credit points of advanced studies in qualitative or quantitative research methods, and
24 credit points in the area of specialisation and EDUC913 Minor Project in Education in the area of specialisation (8 credit points).

**Normal Progression Patterns:** The Master of Education degree will normally be completed in two Sessions of full-time study, or in four Sessions of part-time study. The typical patterns of part-time study are outlined below. The first two Sessions of part-time study are the same for both the professional development and research orientation programs.

### Professional Development

<table>
<thead>
<tr>
<th>Session</th>
<th>Subject</th>
<th>Specialisation</th>
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<tbody>
<tr>
<td>Session 1</td>
<td>EDUC910 (annual)</td>
<td>Specialisation 1</td>
</tr>
<tr>
<td>Session 2</td>
<td>EDUC910 (annual)</td>
<td>Specialisation 2</td>
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<tr>
<td>Session 3</td>
<td>Specialisation 3</td>
<td>Elective 1</td>
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<tr>
<td>Session 4</td>
<td>Elective 2</td>
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### Research Orientation

| Session 1 | EDUC910 (annual)         | Specialisation 1 |
| Session 2 | EDUC910 (annual)         | Specialisation 2 |
| Session 5 | Specialisation 3         | One advanced research methods subject EDUC913 |
| Session 4 |                           |                |

### Areas of Specialisation:

**From the School of Learning Studies**

1. Children's Literature
2. Cognitive Processes
3. Curriculum
4. Educational Psychology
5. Educational Sociology
6. Gender Studies in Education
7. History of Education
8. Language Education
9. Special Education

**From the School of Policy and Technology Studies in Education**

1. Physical and Health Education
2. Policy Studies in Education
3. Technology Studies in Education

### Requirements for the Degree Program:

Please refer to the Pass Master Degree Regulations and note the following additions:

1. Each 48 credit point program shall include a minimum of 24 credit points comprising a major specialisation within the degree. The area of specialisation should be chosen from those areas listed below.

2. A candidate for the Master of Education degree, may, with the approval of the appropriate 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 Master of Education (Honours) degree will normally be expected:

   (a) to satisfactorily complete those subjects in the research orientation strand of the Master of Education Degree, and

   (b) to have achieved results averaging credit level or better in the Master of Education Degree.

### Areas of Specialisation:

**From the School of Learning Studies**

1. Children's Literature
2. Cognitive Processes
3. Curriculum
4. Educational Psychology
5. Educational Sociology
6. Gender Studies in Education
7. History of Education
8. Language Education
9. Special Education

**From the School of Policy and Technology Studies in Education**

1. Physical and Health Education
2. Policy Studies in Education
3. Technology Studies in Education

**NOTE:** An additional specialisation in Human Resource Management in Education is available from the AlAE subjects offered by the School of Industrial and Administrative Studies, within the Faculty of Commerce

Prospective students should discuss their program of study with the lecturer responsible for the area of specialisation in which they are interested. These and other details are in the Faculty Postgraduate Degree Handbook,
available from the Office of the Dean.

Details of the specific subjects available in each specialisation are set out in the Schedule of Graduate Subjects at the beginning of this chapter. The following specialisations have particular requirements:

**Specialisation in Language Education:** In this specialisation students must complete BOTH EDSL960 AND EDSL961 and select EITHER EDSL962 OR EDSL963.

**Specialisation in Physical and Health Education:** Specialisations within this area are available to students with an approved undergraduate degree in Primary and/or Secondary Physical and Health Education, and cover:
- Applied curriculum studies in physical and health education;
- Management and administration of physical and health education programs; and
- Discipline studies in physical and health education.

Specialisation in this field requires students to complete a minimum of 24 credit points by selecting at least one applied curriculum/applied management subject (EDSP900 to EDSP904) together with at least one subject from the discipline studies (EDSP910 to EDSP914).

**Specialisation in Policy Studies in Education:** Specialisation in this field requires students to complete EDSP920 and EDSP921 together with at least one subject chosen from the other policy subjects described below.

**Specialisation in Technology Studies in Education:** Students entering this program will be required to complete at least 24 credit points selected from the available Technology Studies subjects.

**Electives:** All 900 level subjects listed in the Subject Descriptions may be taken as elective subjects.

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### 4. HONOURS MASTER OF EDUCATION

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

**Pattern of Study:**

- **Either** EDUC900 48 credit point thesis
- **or** EDUC901 24 credit point thesis, and EDUC905 Directed Study in Education I (8 Credit points), and EDUC906 Directed Study in Education II (8 Credit points), and EDUC907 Directed Study in Education III (8 Credit points)

Each Directed Study subject is an 8 credit point individualised program of study in an area supporting the area of the 24 credit point thesis. Students may replace a Directed Study subject with subject(s) chosen from the Master of Education schedule, in consultation with their supervisor(s).

**Requirements for the Degree Program:** The degree of Honours Master of Education (MEd(Hons)) in the Faculty of Education shall be subject to the University's requirements for the award of the degree of Honours Master together with the following guidelines:

1. Entry to the degree program will normally be available to a person who has:

   (a) completed the requirements for an approved Bachelor's degree with Honours Class II Division 2 or higher, and who holds an approved teaching qualification; or
completed the University's Master of Education Degree in accordance with, Section 3(a) of the requirements for that degree, with results averaging credit level or better; or

(c) completed qualifications deemed by the Board of Research and Postgraduate Studies to be the equivalent of the University's Master of Education Degree, in accordance with Section 3(a) of the requirements for that degree, with results averaging credit level or better; or

(d) completed such other qualifications as might be approved by the Board of Research and Postgraduate Studies on the recommendation of the appropriate Head of School provided that in the view of the Board of Research and Postgraduate Studies any such person shall:

(i) have accumulated the equivalent of 48 credit points beyond a Pass degree; and

(ii) completed a total of 24 credit points of research orientated subjects, including research methods and a minor research project.

2. The degree program will normally be completed in two sessions of full-time study or four sessions of part-time study.

3. The degree program shall involve:

(a) a thesis embodying the results of an investigation to the value of 48 credit points, or

(b) a minor thesis embodying the results of an investigation whose credit point value is 24 together with satisfactory completion of Directed Study subjects to the value of 24 credit points.

4. 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.

5. The Board of Research and Postgraduate Studies shall appoint supervisor/s for each candidate on the recommendation of the appropriate Head of School.

5. HONOURS MASTER OF ARTS

Candidates for the degree who have completed an Honours Degree in Education at the level of II(2) or higher will enrol in the subject EDUC900, the 48 credit point Thesis.

SUBJECT DESCRIPTIONS

EDCM861 INTRODUCTION TO COMPUTERS IN EDUCATION

Session One; 6 credit points (3 hours per week)

This subject identifies a broad spectrum of applications of computers in education across subject boundaries and identifies some specific examples of these applications within particular disciplines.

Textbook

EDCM862 COMPUTER RESOURCES IN TEACHING

Session One; 6 credit points (3 hours per week)
Pre-Requisite: EDCM861

In this subject students investigate the range of resources available for computer
based learning. It particularly emphasises the skills necessary for effective selection and evaluation of potential resources. This subject also prepares the student for the planning and implementation of the individual research project in the following session.

EDCM863 COMPUTER RESOURCES PROJECT

Session Two; 6 credit points (3 hours per week)
Pre-Requisite: EDCM862

The computer as an educational resource has the potential to be useful in a variety of disciplines. This subject will provide students with an opportunity to apply their computing knowledge and research skills to the design, implementation and evaluation of a computer supported teaching unit. Students will be involved in the completion of an individual project.

EDEF861 THEORIES OF LEARNING

Session Two: 6 credit points (3 hours per week)

This is a general subject on the psychology of learning. It is intended as an advanced "foundations" subject to facilitate an understanding of traditional and contemporary explanations of learning and related processes. Emphasis is given both to learning theories and to their application in computer based learning.

EDEF862 ADVANCED CURRICULUM THEORY AND PRACTICE

Session One: 6 credit points (3 hours per week)

This subject is designed to expand the student's understanding, knowledge and skills of curriculum planning. Students will be asked to participate in the critical analysis of curriculum issues through written position papers and seminars. They will also be asked to implement a significant curriculum and evaluation project related to an ongoing professional experience in the application of computers in a learning setting.

Textbook

EDEF863 THE SOCIAL IMPLICATION OF COMPUTERS

Session Two; 6 credit points (3 hours per week)
Pre-Requisite: EDCM861

This subject aims to develop an awareness of the applications of computers in modern society and the social issues related to this rapidly developing technology. Students will be required to present a seminar paper on one of the issues raised and to prepare a literature survey of relevant publications.

EDMA861 COMPUTING I

Session One; 6 credit points (3 hours per week)

This subject introduces students to fundamental computer concepts. Fundamental programming concepts and constructs are considered and implemented using a popular high level language on a microcomputer. Activities in this subject include using a range of microcomputers and peripheral devices.

EDMA862 COMPUTING II

Session Two; 6 credit points (3 hours per week)
Pre-Requisite: EDMA861

This subject is designed to develop problem solving skills using the computer language Logo. The subject considers the programming concepts of Logo together with its underlying educational foundations.

Textbook

EDRE860 LANGUAGE DEVELOPMENT I

Session One; 6 credit points (3 hours per week)
Assessment: Students will be required to complete three written assignments.

This subject will introduce students to the theoretical perspective that underpins much of the course. This will be done through the study of first and second language development, and a study of the nature of language, with specific reference to notions of text, context and register.

**EDRE861 LANGUAGE DEVELOPMENT II**

*Session Two; 6 credit points (3 hours per week)*

Assessment: Students will be required to complete three written assignments.

This subject develops more fully some of the themes introduced in Language Development I. It focuses on the relationship between language and learning and explores this relationship through the study of register. The register variables of field, mode and tenor will be discussed and their educational implications for literacy development and ESL Education will be studied.

**Textbook**


**EDRE862 THE CONTEXT OF LEARNING**

*Session One; 6 credit points (3 hours per week)*

Assessment: Students will be assessed on the basis of four written assignments.

In order that teachers fully understand the language needs of their students they must develop an awareness of the social, cultural and linguistic contexts within which their students live and grow. Australia is a pluralist society and therefore contains many minority groups. Teachers need to be sensitive to the needs of the children from such groups in order to plan learning programs which will guarantee equal educational opportunities for all students. This subject aims at developing these essential attitudes and skills through the study of cultural and linguistic differences and their educational consequences.

**EDRE863 LITERACY DEVELOPMENT**

*Session Two; 6 credit points (3 hours per week)*

Assessment: Essay, practical exercises, reaction papers.

This subject is designed to develop the students' knowledge of literacy so that they can make appropriate decisions about teaching reading and writing to learners from all types of cultural and socio-economic backgrounds. Topics to be treated will include: the nature of literacy; the literacy processes; and early literacy development.

**EDRE864 FOUNDATIONS OF ESL EDUCATION**

*First Session: 6 credit points (3 hrs per week)*

Assessment: Students will be required to complete three written assignments.

Pre-requisite: Completion of the core program.

In this subject students will be expected to draw together the understandings and knowledge gained in previous subjects about the nature of language, the process of language development and the importance of the social context in which language occurs. The general principles arising from study of the above areas will begin to be applied in ESL Education in Australia.

**Textbooks**


**EDRE865 ASSESSMENT OF NEEDS OF SECOND LANGUAGE LEARNERS**

*Annual 6 credit points (3 hrs per week)*
Assessment: Students will be required to complete three written assignments  
Co-requisite: EDRE860

In order to be able to plan effective teaching programs students first need to be able to assess the needs of the second language learner. This subject aims to develop in students the ability to relate proficiency assessment of the learner to perceived language demands of the situation within the context of relevant background information, in order to identify the learner's needs and allocate priorities for program design.

Textbook  

**EDRE866 METHODOLOGY AND ORGANISATION IN ESL EDUCATION**

Second session; 6 credit points (3 hrs per week)  
Assessment: Students will be required to complete three written assignments  
Pre-requisite: EDRE860, EDRE862, EDRE864

In order to be effective language teachers students must be able to translate theory into good teaching. The emphasis in this subject will be on the practical implementation of the student's own philosophy of ESL education. Thus the student will be expected to develop an awareness of the direct links between classroom methodology and teaching strategies and their own understanding of language learning. Further, in order to be able to plan and implement language programs effectively students need to understand the relationship between ESL education and the whole school curriculum in terms of the range of organisational models for language teaching; this subject aims to develop such an understanding.

Textbooks  

**EDRE867 LITERACY PROCESSES**

First session; 6 credit points (3 hrs per week)  
Assessment: Practical exercises, essay, seminar papers/reaction papers  
Pre-requisite: Completion of the core program.

In the first part of this course students will have gained a general understanding of the nature of language, language acquisition and literacy development. This provided a necessary foundation for both strands of the course. It is necessary, however, for those students wishing to follow the literacy strand to engage in detailed studies which view the literacy process from a variety of perspectives. As a result of these studies the students will be expected to be able to develop, articulate and defend their personal philosophy of literacy education, and to demonstrate what that philosophy means in terms of classroom practice.

**EDRE868 THE EVALUATION OF LITERACY**

Annual; 6 credit points (3 hrs per week)  
Assessment: Practical exercises, essay, seminar papers/reaction papers  
Co-requisite: EDRE860

Students who elect to follow the literacy strand of this course will need to acquire a comprehensive knowledge of approaches to the evaluation of literacy development so that they will be able to plan effective literacy programs.

This subject is designed to provide students with the knowledge and skills they will need to successfully evaluate literacy development, in order that they might develop programs of instruction which will meet the needs of their pupils.

**EDRE869 METHODOLOGY AND ORGANISATION IN LITERACY EDUCATION**

Second Session; 6 credit points (3 hrs per week)
Assessment: Practical exercises, essay, seminar papers/reaction papers.
Pre-requisite: EDRE867

To develop a literacy curriculum in the school setting teachers must take into account the individualised literacy needs and cultural backgrounds of the children, the available human and material resources, the appropriate teaching strategies and the physical setting of the classroom. Orchestrating these factors so that meaningful literacy learning experiences occur for all children in their classrooms, requires teachers to have a sound knowledge of current thinking in these areas and the ability to use this information to plan a suitable literacy curriculum.

EDRE870 INDEPENDENT STUDY

Annual; 6 credit points (3 hrs per week)
Assessment: Study proposal, final report
Pre-requisite: Completion of the core program.
Co-requisite: EDRE864 and EDRE865 or EDRE867 and EDRE868

Students engaged in this postgraduate subject are expected to acquire a comprehensive understanding of the theoretical basis of language education and be able to apply that knowledge to educational practice in Literacy Education or ESL Education. A mandatory requirement of the subject is, therefore, that all students should undertake an individual independent study through which they can demonstrate their theoretical and practical mastery of the subjects studied. They are expected to conduct a study based on an interest area, analyse the results and submit a substantial report on the study.

EDSL900 CHILDREN'S LITERATURE: THE TEXT IN THE CLASS

Single session; 8 credit points (3 hrs per week, seminar format)
Assessment: Seminar, 2 practical exercises, 1 essay

This subject through examining aspects of reading, interpretation and criticism aims to make students aware of the codes upon which textual production depends, with a view to encourage their own textual practice rather than be intimidated with a single critic's supposedly superior textual production. The point of the subject is to open the way between the literary text and the social text in which we live. Students will be expected to develop methods applicable to their own classroom practices and so contribute to curriculum development in the literacy area.

Textbooks
A representative selection of children's books will be read.

EDSL901 CHILDREN'S LITERATURE AND MODERN LINGUISTICS

Single session; 8 credit points (3 hrs per week, seminar format)
Assessment: 1 seminar, 2 practical exercises, 1 essay

Linguistics in the twentieth century has evolved in a direction that has increased enormously its explanatory potential for literary studies. This subject aims to apply aspects of linguistics to literature to provide new and fruitful ways of discussing the specifically literary properties of texts. The understandings reached about this will have implications for using texts in the classroom.

Textbooks
A representative selection of children's books will need to be read.

EDSL902 CHILDREN'S LITERATURE AND GAMES AUTHORS PLAY

Single session; 8 credit points (3 hrs per week, seminar format)
Assessment: 1 seminar, 2 practical exercises, 1 essay

The aim of this subject is to call attention to the various ways by which an author can draw a reader into a closer, enquiring
or speculative relation with a text and to provide illustrations of some of the more common games on which literature depends. Word plays, nonsense, parallels, narrative devices, adumbration, allegory, allusion, ambiguity and myth are investigated for the way they are used in children's books.

Textbooks
A representative selection of children's books will need to be read.

EDSL903 CHILDREN'S LITERATURE: PATTERNS IN NARRATIVE

Single session; 8 credit points (3 hrs per week, seminar format)
Assessment: Seminar, 2 practical exercises, 1 essay

This subject examines the complexity of narrative and surveys issues such as events, time, focalisation and characterisation in fiction. The pattern of repetition in the text is also analysed to understand how this is related to interpretation and meaning.

Textbooks
A representative selection of children's books will need to be read.

EDSL904 CHILDREN'S LITERATURE: LANGUAGE AND IDEOLOGY

Single session; 8 credit points (3 hrs per week, seminar format)
Assessment: 1 seminar, 2 practical exercises, 1 essay

This subject will examine a number of children's novels to show how meanings, systems of ideas and beliefs are constructed in discourse and how these function to maintain and transmit existing power relations.

Textbooks
A representative selection of children's books will need to be read.

EDSL905 CHILDREN'S LITERATURE AND MODERN LITERARY THEORY I

Single session; 8 credit points (3 hrs per week, seminar format)
Assessment: 1 seminar, 2 practical exercises, 1 essay

This subject makes a critical examination of some modern developments in literary theory which have taken place in the twentieth century in Europe and North America. In each case a theory is linked to a novel for children and is examined to establish what answers it can suggest for classroom practice to further promote literacy education. Formalist, Linguistic, New Criticism, Reader-Response, and Structuralist theory will be emphasised in this subject.

Textbooks
A representative selection of children's books will need to be read.

EDSL906 CHILDREN'S LITERATURE AND MODERN LITERARY THEORY II

Single session; 8 credit points (3 hrs per week, seminar format)
Assessment: 1 seminar, 2 practical exercises, 1 essay

This subject follows on the work begun in Children's Literature and Modern Literary Theory I, linking current literary theory to novels for children. Emphasis will be on Post Structuralist, Psycho-analytic, Feminist and Marxist theory and the implication these theories have for literacy education.

Textbooks
A representative selection of children's books will need to be read.
EDSL910 INTRODUCTION TO CURRICULUM THEORY AND DEVELOPMENT

Single or double session; 8 credit points (3 hrs per week on a single session basis).
Assessment: Assignments, optional examinations.

Origins of the Curriculum in Public School systems.
The Socio-philosophical bases of the curriculum.
General methods of developing, implementing, and evaluating curriculum at the school and classroom level.

Textbooks
None specified - students will draw from an extensive bibliography of primary and secondary literature.

EDSL911 ADVANCED CURRICULUM THEORY AND DEVELOPMENT

Single or double session; 8 credit points (3 hrs per week: on a single session basis; lectures, tutorials & seminars)
Assessment: Assignments, optional examinations.

Modelling procedures in curriculum design; analysis of educational contexts defining a curriculum design: e.g. teaching, learning, organisational, philosophical, sociological, political, and economic.

Textbooks
None specified - students will draw from an extensive bibliography of primary and secondary literature.

EDSL912 CURRICULUM STUDIES A

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)
Assessment: Assignments, optional examination.

(a) Survey of the origins of the curriculum in public school systems - historical, political, economic, and philosophical antecedents to the development of the modern public school curriculum.
(b) Methods of designing curricula for a variety of educational environments and socio political philosophies.
(c) Curriculum construction, implementation, and evaluation at the local school level.
(d) Transitional concepts of curriculum development in relation to the contemporary relocation in the locus of control over educational outcomes.

Textbook
None specified: students will draw from an extensive bibliography of selected primary and secondary literature.

EDSL913 CURRICULUM STUDIES B

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)
Assessment: Assignments, optional examination.

(a) Advanced topics in curriculum theory, planning and instructional design.
(b) Humanistic, pragmatic, and rationalistic approaches to curriculum theory.
(c) The 'systems' approach to curriculum planning and instructional design.
(d) Selected topics from (i) curriculum development for primary schools, (ii) curriculum development for secondary schools, (iii) curriculum development for senior secondary schools, (iv) curriculum development for higher educational programs.

Textbooks
None specified: students will draw from an extensive bibliography of selected primary and secondary literature.
EDSL920 EDUCATIONAL PSYCHOLOGY I

Single or double session; 8 credit points (3 hrs per week on single session basis: lectures, seminars & tutorials)
Assessment: Assignments and associated projects, optional examination.

Language in early childhood.
Language in the school.
Continuity and discontinuity in development Tests of conceptual and language development.
Special topic.

EDSL921 EDUCATIONAL PSYCHOLOGY II

Single or double session; 8 credit points (3 hrs per week: on a single session basis, lectures, seminars & tutorials)
Assessment: Assignments and associated projects, optional examination.

Social class and intelligence.
Ethnic difference and mental growth.
Compensatory education.
Literacy and numeracy programmes.
Special topic.

EDSL922 EDUCATIONAL PSYCHOLOGY III

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)
Assessment: Assignments, optional examination.

An intensive study of contemporary issues in learning in a formal educational context. Opportunity will be provided for students to specialise in early and middle childhood learning or learning of adolescents.

Textbooks
Although a text will be arranged, wide recourse will be made to the literature available at the commencement of the course.

EDSL930 EDUCATIONAL SOCIOLOGY I

Single session; 8 credit points (3 hrs per week, lecture/seminar format)
This subject will examine theoretical perspectives in the Sociology of Education. A critique of these perspectives will be offered. Part of the subject will examine the usefulness of following a practical/action approach towards solving problems associated with teachers and teaching.

Textbooks

Journals: Australian Journal of Education The Australian and New Zealand Journal of Sociology

EDSL931 EDUCATIONAL SOCIOLOGY II

Single Session; 8 credit points (3 hrs per week; lecture/seminar format)
Pre-requisites: EDSL930
Assessment: Seminar paper, practical report (Field Survey, Action Research or research report), essay.

Research methodologies in Sociology range from a form of data collecting which is quantitative, employing statistical analyses, to that which is more qualitative in nature (e.g. participant observation and ethnomethodology). These approaches will be examined as well as the links between particular theoretical perspectives and the methodologies used. In recent years action research is seen to be of considerable importance. The relevance of this approach in the context of the school will be assessed.

Textbooks:

Journals: Australian Journal of Education The Australian and New Zealand Journal of Sociology
EDSL932 EDUCATIONAL SOCIOLOGY III

Single session; 8 credit points (3 hrs per week, lecture/seminar format)

Pre-requisite: EDSL931

Assessment: Seminar Paper/Practical Report (Field Survey, Action Research and/or Research Report), Essay

This subject follows on from EDSL931. It continues to examine various methodological approaches that have been used in research of students and teachers in the context of the classroom, as well as in the wider context of the education system. Students will be encouraged to develop research strategies appropriate for implementation in school classrooms.

Textbooks:

Journals: Australian Journal of Education The Australian and New Zealand Journal of Sociology

EDSL940 GENDER STUDIES I

Single Session; 8 credit points (3 hrs per week, lecture/seminar format)

Assessment: Seminar paper, Practical Report (Field Survey, Action Research and/or Research Report), Essay

A critical analysis of the social construction of gender and the issue of patriarchy. The subject will introduce relevant and challenging social theory as an important aspect of this critique. A major focus will be the understanding and analysis of feminist paradigms for changing Australian education.

Textbooks:

EDSL941 GENDER STUDIES II

Single Session; 8 credit points (3 hrs per week, lecture/seminar format)

Pre-requisite: EDSL940


Gender differentiation in schooling will be explored in greater depth building on the social theory introduced in EDSL940. The relationship between gender, power and schooling will form a major focus for study. In addition, various ideologies which impinge on education generally and on the schooling of girls in particular, will be outlined and discussed.

Textbook:

EDSL942 GENDER STUDIES III

Single Session; 8 credit points (3 hrs per week, lecture/seminar format)

Pre-requisite: EDSL941


Students will use critical perspectives developed in EDSL940 and EDSL941 to examine the role of the teacher in the reproduction of gender inequality in schools. Students will extend their knowledge of differentiation which is based on race, class and gender. A thorough analysis of the assumptions underlying traditional, feminist and revisionist critiques of the education and social role of women will be examined.

Textbook:
No set text but reference will be made to a variety of texts, journals, (e.g. Signs: Journal of Women in Culture and Society, Australian Journal of Education) and reports (e.g. Girls and Tomorrow).

EDSL943 WOMEN AND AUSTRALIAN EDUCATION: HISTORICAL AND COMPARATIVE PERSPECTIVES

Single session; 8 credit points (3 hrs per week)

Assessment: Major assignment, seminar paper
The emphasis of the subject will be on methods and materials appropriate to the history of women and education. Students will be introduced to historical research, in the first instance through an examination of the history of education for girls in the colony and state of New South Wales c. 1788 c. 1988. The wider themes of the provision for and theories about the education of women, the employment and changing role of women, women as teachers and the effects of increased availability of formal schooling on the self image and status of women will also be explored.

Some emphasis will be placed on theories about the education of women in different times as a background to the Australian developments.

Textbook

EDSL944 WOMEN, EDUCATION AND WESTERN INTELLECTUAL THOUGHT

Single session; 8 credit points (3 hrs per week)
Assessment: Major assignment, seminar paper

This subject will examine the theories of education which have shaped women's formal schooling in Western intellectual thought. Close attention will be given to the social context of women's lives and its effects on how women and girls were incorporated into the formal classroom. Although emphasis will be placed on examining the educational ideas of major theorists, these will be studied specifically to assess their impact on the education of women.

Students will be encouraged to examine a range of issues within this theoretical framework including the higher education of women, women theorists (e.g. Christine de Pisan, Mary Wollstonecraft), the "girls" school, home education, changing/unchanging roles and status of women in different societies at different historical periods, social class/gender differences and woman as teacher in long history.

Students will be introduced to a wide range of contemporary research and will be encouraged to examine closely the assumptions underlying traditional, feminist and revisionist critique of women's place in Western intellectual thought.

Textbooks
No set text; a list of appropriate readings will be provided.

EDSL950 AN INTRODUCTION TO THE HISTORY OF EDUCATION

Single or double session. 8 credit points (3 hrs per week on a single session basis; lectures, seminars and tutorials)
Assessment: major project

An introduction to the historical study of education. The content of the course will focus on the history of western education since the Renaissance with a concern for education as a social process. Considerable emphasis will be placed on historical methodology, particularly the use of primary sources, relevant historiography, and the relationship between history and social sciences.

EDSL951 COMPARATIVE EDUCATION AND HISTORY OF EDUCATION

Single session; 8 credit points (3 hrs per week lectures, seminars and tutorials)
Assessment: Assignments, project.

Systematic study of education systems selected from Australia, USA, UK, France, Japan, SE Asia and China. Selected case study analysis showing the problem and inductive approaches in comparative methodology. Interdisciplinary contributions to Comparative education. The Australian context. Historical antecedents to formal education systems in selected countries.

EDSL952 HISTORICAL RESEARCH IN AUSTRALIAN EDUCATION

Single session; 8 credit points (3 hrs per week lectures, seminars and tutorials)
Assessment: Assignment, optional examination.
This subject aims at both researchers in education and teachers wishing to expand the range of methods for history teaching in the classroom. It examines the theory and practice of historical writing and research in Education, the genres of Australian History of Education, and critically reviews techniques available to history teachers.

EDSL960 LITERACY PROCESSES

Single session; 8 credit points (3 hrs per week lectures, seminars and tutorials)
Assessment: Assignments and associated projects, optional examination.

Psycholinguistic processes that underlie reading, writing, spelling, and other accoutrements of literacy.
Learning to read, write, spell, and become literate; Theoretical issues and current practices.
How literacy is taught in schools K-12, and beyond.

Textbooks
Students will be required to read from an extensive bibliography of research articles and journal materials.

EDSL961 LANGUAGE DEVELOPMENT IN SCHOOL

Single session; 8 credit points (3 hrs per week lecture/workshop and seminars)
Assessment: 2 essays, 2 reports

The development of language from early childhood into adulthood and the implications of this for the learner and teacher are examined within the framework of a functional approach to language. The ability of learners to adapt their language to the demands of the classroom and school is a central concern. The role of the teacher in facilitating learners' development across a wide spectrum of language varieties and school subjects will be clarified by exploring: individual differences in language ability, language failure and school failure, and language in literacy, including a study of spoken and written forms. An important theme will be a consideration of the part played by the analysis of the language of children, teachers and classroom resources in improving school learning.

EDSL962 ASSESSMENT AND EVALUATION OF LITERACY DEVELOPMENT

Single session; 8 credit points (3 hrs per week lectures, seminars, tutorials)
Assessment: Assignments, practical work in assessment and evaluation activities; optional examination.
Pre-requisite: EDUC960

Issues in assessment and evaluation in literacy education will be examined. These include: the place of standardised testing; the notion of "responsive evaluation"; evaluation protocols in "whole language" classrooms and the issue of reporting to parents.

Textbooks
None specified - students will draw from an extensive bibliography of selected literature.

EDSL963 LANGUAGE ACROSS THE CURRICULUM

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and tutorials)
Assessment: Written assignments, seminar reports.

How language is used by students in school learning. The place language occupies in the curriculum and in a range of subjects. The role of language in oracy and literacy development. A functional approach to language as the basis for the study of languages across the curriculum.

Textbooks
None specified. Students will read from an extensive bibliography of source material across and within the relevant disciplines.

EDSL964 APPROACHES TO ESL EDUCATION

Single session; 8 credit points (3 hours per week)
Co-requisite: EDSL961
Assessment: Two essays, survey report.

The similarities and differences between L1 and L2 learners will be examined. The
needs of ESL students will be investigated with reference to age, cultural background, setting and relevant affective factors. An analysis of language policies and approaches to program development will provide the basis for a consideration of the provision of resources at school and system levels. There will also be reference to ESP - its use in science, technology and in business.

Textbooks:

EDSL965 DEVELOPING SCHOOL LANGUAGE PROGRAMS

*Single session; 8 credit points (3 hours per week)*
*Co-requisite: EDSL961*
*Assessment: Report, position paper, unit of study.*

This subject, in focussing on the needs of K-6 and 7-12 learners, examines some curriculum responses to these needs in the light of models of language development. Further issues to be examined include recent reports on language programs and the issues involved in designing units and programs at class, school and system level. There will also be a study of various approaches to the development, trialing and evaluation of language programs.

Textbooks:

EDSL966 THE SOCIOLOGY OF LANGUAGE IN EDUCATION

*Single or double session; 8 credit points (3 hrs per week on a single session basis)*
*Assessment: A review of research; A seminar paper which explores the art and science of reviewing research.*

Language, thought and culture; languages, dialects, varieties and styles. How do languages vary in what they code?


EDSL967 THEORY AND PRACTICE OF REVIEWING LITERATURE/RESEARCH

*Single or double session; 8 credit points (3 hrs per week on a single session basis)*
*Assessment: A review of research; A seminar paper which explores the art and science of reviewing research.*

The aims of this subject are:

(i) To study the nature, purpose, function and structure of various types of research review;
(ii) To critically evaluate a range of models of research review;
(iii) To examine the assumptions underlying different forms of review (e.g. "state of art review", "reviews for policy workers", "reviews for theory building", "the thesis review").

In the course of pursuing these aims students shall undertake a review of research in a field germane to their research interests, and produce a review article.

Textbook

EDSL968 TEACHERS AS CHANGE AGENTS: STAFF DEVELOPMENT IN LITERACY EDUCATION

*Single session; 8 credit points (3 hrs per week: lectures/seminars format)*
*Assessment: Essay and seminar presentation.*
*Prerequisite: EDSL960, EDSL961*
*Co-requisite: EDSL962*
This subject is designed to prepare teachers to take on the role of change agents in the school setting. Models of staff development, issues in school based curriculum and 'action-research' methodology will be examined and discussed in the light of literacy education.

EDSL980 SPECIAL EDUCATION - CONTEMPORARY ISSUES

Single or double session; 8 credit points (4 hrs per week on a single session basis: lectures, seminars, practical work)  
Assessment: Assignments, optional examination

This subject examines a number of significant contemporary issues in the area of special education. Issues are considered under the following headings: Special education - a changing field; historical perspectives; normalisation; the law and special education; parents and families of exceptional children; discipline and the exceptional child; mainstreaming; secondary education and the exceptional child.

Textbooks  
None specified - students will draw from an extensive bibliography of primary and secondary literature.

EDSL981 SPECIAL EDUCATION - TEACHING STRATEGIES

Single or double session; 8 credit points (4 hrs per week on single session basis: lectures, seminars, practical work)  
Assessment: Assignments, practical field work.

This subject offers theoretical and practical work in the area of teaching the exceptional individual. Topics to be covered include: Applied behaviour analysis (precision teaching, behavioural objectives, task analysis, pre-requisite behaviour); programming for generalisation and maintenance outcomes; cognitive behavioural techniques; direct instruction.

Textbooks  
None specified - students will be required to read from an extensive list of references.

EDSL982 SPECIAL EDUCATION - A COMMUNITY ORIENTATION

Single or double session; 8 credit points (8 hrs per week on single session basis: lectures, seminars, practical work)  
Assessment: Assignments, community-based practical work

This subject treats the community context of special education paying particular attention to community attitudes, community education, the use of volunteers, community resources; and effective implementation of the principle of normalisation.

Textbooks  
None specified - students will be required to read from an extensive list of references.

EDSL983 SPECIAL EDUCATION - EDUCATION OF GIFTED AND TALENTED CHILDREN

Single or double session; 8 credit points (4 hrs per week on single session basis: lectures, seminars, practical work)  
Assessment: Seminar presentations, optional examination, practical work in developing programs for children with special talents.

This subject is concerned with:
- contemporary issues in the education of gifted and talented children
- theoretical frameworks for the development of learning environments for gifted and talented children
- the occasional and psychological problems encountered by gifted children
- learning characteristics of gifted and talented children
- teaching skills appropriate to the needs of gifted and talented children
- selection and preparation of instructional materials for individual children

Textbooks  
None specified; students will be required to use a range of literature sources and reference books.
EDSL990 PHILOSOPHY OF EDUCATION AND THEORIES OF EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis; lectures, seminars & tutorials)

Assessment: Assignments and associated projects, optional examination.

- Impact of philosophers on education.
- Application of philosophical methods of enquiry to education.
- Axiology and education.
- Epistemology and education.

Textbooks

EDSP900 MANAGEMENT AND ADMINISTRATION ISSUES IN PHYSICAL AND HEALTH EDUCATION

Single Session; 8 credit points (3 hrs per week)

Assessment: practical exercises, examination

The subject offers specialised study in administration, organisational change, staff development and motivation, leadership and conflict resolution. Topics will be applied directly to the operations of school departments and school settings with emphasis on Physical and Health Education.

EDSP901 CURRICULUM PROBLEMS AND ISSUES IN SECONDARY PHYSICAL AND HEALTH EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis; lectures, seminars, workshops)

Assessment: Assignments, school based practical work, examination.

The 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
None specified - students will draw from an extensive bibliography of selected primary and secondary literature.

EDSP902 PROGRAMME DEVELOPMENT AND EVALUATION IN HEALTH EDUCATION

Single session; 8 credit points (3 hrs per week)

Assessment: Completion of written assignment, final examination

Major concepts of health planning to be reviewed are programme development, implementation and evaluation within and across agencies. Topics include: planning structures; problem identification and analysis; formulation and implementation of plans, evaluation designs, instrumentation development; and data collection and analysis.

EDSP903 APPLIED CURRICULUM IN PRIMARY SCHOOL HEALTH EDUCATION

Single Session; 8 credit points (3 hrs per week)

Assessment: Curriculum Worksheets, examination.

In recent years, health education in the primary school has undergone a period of rapid growth and change. This situation, while positive in nature, has placed greater demands on the primary school teacher, in the application of curriculum theory and process to health education programmes.

Subject content, therefore, will include an appraisal of curriculum models in health education, an evaluation of specific curriculum guides in health education and an analysis of key issues and problems peculiar to health education in the primary school.
EDSP904 APPLIED CURRICULUM IN PRIMARY SCHOOL PHYSICAL EDUCATION

Single Session; 8 credit points (3 hrs per week)
Assessment: Curriculum Worksheets, optional examinations.

Curriculum design and implementation of physical education at the primary school levels form the most important part of the curriculum process. Major problems associated with physical education in the primary school will be looked at together with current issues which affect present and future curriculum planning.

Textbook

EDSP910 STUDIES IN THE SCIENTIFIC BASES OF HEALTH EDUCATION AND HEALTH PROMOTION

Single or double session; 8 credit points (3 hrs per session on a single session basis)

Health promotion has progressed through its infancy and is here to stay. The literature on the value of risk factor reduction is substantial and 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 a set text.

EDSP911 DISCIPLINE STUDIES IN HEALTH

Single or double session; 8 credit points (3 hrs per week on a single session basis; lectures, seminars, workshops)
Assessment: Assignments, optional examination.

The goal of the professional in the field of health education includes the development of processes which effectively inform and motivate society to practise healthful and safe living patterns. This subject will examine the various elements of health as they relate to the quality of living. Those factors which influence individual health patterns need to be identified. A comprehensive understanding of the inter-relationships within and between these factors will give direction to the total concept of health.

Textbooks
None specified - students will draw from an extensive bibliography of selected primary and secondary literature.

EDSP912 ADOLESCENT HEALTH STATUS AND BEHAVIOUR

Single Session; 8 credit points (3 hrs per week)
Assessment: Assignment, probes, examination

Adolescence provides a crucial access point for the improvement of health, not only now 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 indices 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-oriented programs for adolescent groups will be examined.

EDSP913 ADAPTED PHYSICAL EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis; lectures, seminars, workshops)

The concept of mainstreaming has led to many handicapped individuals being placed in the regular physical education
class. The need to understand the various handicapping conditions is important to the regular physical education teacher and the adapted physical educator. This course will look at program design and current problems and issues in adapted physical education.

Textbooks
Sherrill, C. Adapted Physical Education and Recreation. Iowa: Brown, 1981.

EDSP914 SPORT AND THE LAW - IMPLICATIONS FOR PHYSICAL EDUCATION

Single Session; 8 credit points (3 hrs per week)
Assessment: Assignment, research report, examination

Legal liability has become a contemporary issue for Physical Educators, coaches and administrators involved with the sporting scene. Sport generates important legal problems, litigation and legislation. This subject analyses some of the important legal issues such as liability for sporting injury or damage, Law and Order in the Sporting Arena, Sport and the Law of Business and Sports Law in the International arena.

Textbook

EDSP920 FOUNDATIONS OF POLICY STUDIES

Single session; 8 credit points (3 hrs per week seminar format)
Assessment: Written assignments, practical work in policy design and analysis, examination.

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, grounded theories, critical theories, Cost/benefit approaches to policy making.

Textbooks
A selection of policy documents

EDSP921 POLICY RESEARCH AND POLICY ANALYSIS

Single session; 8 credit points (3 hrs per week seminar format)
Assessment: Written assignments, practical work in policy design and analysis, examination.
Pre-requisite: EDSP920

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 to understand how and why Australian educational policies take on their specific outlook.

Textbooks
A selection of policy documents

EDSP922 HEALTH POLICY SEMINAR

Single session; 8 credit points (3 hrs per week)
Assessment: Presentation of a seminar, completion of a written policy analysis
Pre-requisite: EDSP920

Health Policy issues and specific examples of health policies will be examined. Topics include policy formation and analysis; issues of implementation; the organization of policy practices; policy planning responsibilities. These issues will be examined in the light of existing policies.

EDSP923 ABORIGINAL EDUCATION POLICY SEMINAR

Single session; 8 credit points (3 hrs per week, seminar format)
Assessment: 1 critical evaluation essay, 1 seminar presentation and report, 1 seminar reaction paper.
Overview and critical evaluation of state and federal government initiatives in the area of Aboriginal education policy. In the context, in particular, of developments during the past decade, topics will include: theoretical constructs for descriptive analysis of policy; examination of policy process; development of policy statement taxonomies; review of policy documents and models for evaluation; comparison of state and federal governments' roles and responsibilities; Aboriginal involvement in policy formulation and implementation; interpretation of outcomes; Aboriginal perspectives.

EDSP924 ISSUES AND PROSPECTS IN ABORIGINAL EDUCATION

First session; 8 credit points (3 hrs per week, seminar format)
Assessment: 1 seminar presentation, 1 essay, 1 field-based inquiry project
Pre-requisite: EDSP920 or equivalent approved by Head of School.

This subject will examine a number of contemporary issues relevant to Aboriginal education. Issues (encompassing both concerns and prospects) will be considered within the following general frameworks: education, identity and change; participation and equity; self-determination; land rights and education; Aboriginal education 'failure'; historical perspectives; ethnocentrism and racism; Aboriginal pedagogy and the case for alternative schools; Aboriginal self-determination and community involvement; teacher education and NSW policy evaluation.

Textbook

EDSP925 EDUCATION POLICY IN AUSTRALIA

Single Session; 8 credit points (3 hrs per week)
Assessment: 1 essay, 1 seminar presentation, 2 computer-based activities

This subject provides a broad introduction to computers in education. It assumes students have either no knowledge or very little knowledge of computers or their educational applications. In this subject students will use and evaluate educational computer software, and design and evaluate computer-based learning activities.

Textbook

**EDSP931 PROBLEM SOLVING WITH COMPUTERS**

*Single session; 8 credit points (3 hrs per week, lecture, seminar, computer activity)*

Assessment: 1 essay, 1 seminar presentation, 2 computer-based activities

This subject is concerned with the use of computers in the problem solving process. In this subject students will use and evaluate educational software designed to teach problem solving strategies or intended to assist in the problem solving process. Students will also study ways of incorporating computer-based problem solving activities into the school curriculum.

**EDSP932 COMPUTERS, CURRICULUM AND PEDAGOGY**

*Single session; 8 credit points (3 hrs per week, lecture and seminar)*

Assessment: 2 essays, 1 seminar paper

Pre-requisites: EDUC930 or EDUC931.

In this subject students will study aspects of curriculum theory to supplement their existing knowledge and experience in this area, enabling them to implement more effectively the use of computers in education. A variety of models of teaching will be examined so as to extend students' knowledge in this area and to enable them to apply more effectively computer applications in educational settings.

**EDSP933 COMPUTERS AND LEARNING PROCESSES**

*Single session; 8 credit points (3 hrs per week, lecture, seminar, computer activity)*

Assessment: 1 essay, 1 seminar presentation, 1 computer-based activity

Pre-requisites: EDUC932 or permission of lecturer

In this subject students will study information processing, both human and machine, and apply this knowledge to the learning environment. Topics to be studied will include information technology, learning and cognition, artificial intelligence and expert systems: all in an education context.

**EDSP990 CLASSROOM INQUIRY FOR TEACHERS**

*First session; 8 credit points (3 hrs per week, seminar format)*

Assessment: 1 seminar presentation; design and implementation of a small-scale, informal piece of classroom or school-based inquiry; report in essay form.

Within an arts and social science tradition of qualitative, naturalistic and interpretive research, this subject will focus on: applied research and problems of course design; tasks and procedures; methods, issues and prospects in qualitative-naturalistic inquiry; overview of research techniques and processes; data processing and compilation of reports; educational criticism; relationship between theory and practice; developing communities of knowledgeable consumers or classroom and school-based inquiry.

Textbook

**EDSP991 SEMINAR IN EDUCATIONAL ANTHROPOLOGY**

*First session; 8 credit points (3 hrs per week seminar format)*

Assessment: 1 seminar presentation, 1 seminar reaction paper, 1 essay

The purpose of this subject will be to overview anthropological constructs as
they relate to inquiry in education. In particular, attention will be focussed on relevant aspects of Aboriginal education. Selected dimensions of the theory and practice of educational anthropology will be examined in the following general contexts: culture, community and school; identity, education and change; status and inequality; Aboriginal perspectives on anthropological research in education; ethnographic inquiry and participant observation; education and cultural process; strengths, weaknesses and relevance of anthropological inquiry in education.

Textbook

EDSP992 SEMINAR IN EDUCATIONAL RESEARCH

Single session; 8 credit points (3 hrs per session: lecture/seminar format)
Assessment: 1 seminar presentation, 1 seminar reaction paper, 1 essay
This subject is designed to teach students how to read and evaluate research reports. It will provide a broad conceptual background to the nature of educational research, and will discuss research methodology and data analysis within the framework of seminars devoted to the critical analysis of selected qualitative and quantitative research projects.

Topics discussed will include:
- The nature of research
- Assumptions underlying both quantitative and qualitative research
- The research process
- Assumptions underlying common data analysis procedures
- The critical analysis of research reports

Textbook

EDUC800 PROFESSIONAL STUDIES A

This is the practice teaching component of the course. Students will be required to complete successfully three practice teaching periods. Students will be required to attend field experience days; to observe lessons; be involved in peer assessment; undertake micro teaching and undertake those aspects of communication skills useful for the practising teacher. Students are advised that they will be expected to carry out their practice teaching experience in the Wollongong area. There will be 11 weeks total practice teaching experience.

EDUC816 PROFESSIONAL STUDIES B

Session One:
This subject covers several aspects and is designed to relate directly to the practice teaching experience. It will include those courses such as Physical Education, Health and Communication Skills deemed necessary by the New South Wales Department of Education to fulfil professional requirements. Health and Physical Education may be offered either in Session One or Session Two. Teaching techniques and classroom dynamics will be included in this course.

Session Two:
Those aspects of the subject covered in Session One will be pursued. Following the final practice teaching session, group discussions will be held. This part of the course is designed to assist the student in his/her professional development as a teacher. Current policy documents as they affect the lives of pupils, teachers and the community will be discussed. There will also be an attempt to draw together the practical and theoretical aspects of the course. It is hoped that students will by this time feel more able to solve problems relating to pupils, teachers and teaching. Examples of topics for discussion are: preparation for a career in teaching; self assessment of practical experiences during the year; teacher evaluation and accountability.

EDUC817 CURRICULUM STUDIES

This subject examines the processes of curriculum construction and instructional design. The intention is to equip beginning teachers with a range of instructional strategies which may be employed in developing classroom teaching programs.
This component will help underpin work carried out in the Methods subjects.

Content could include the following:
- Aims
- Spectrum of Styles
- Setting objectives
- Taxonomies of Learning
- Domains
- Principles of Assessment and Evaluation
- Content Selection
- Resource Assessment
- Matching Instruction to Client Attributes and Needs

EDUC818 PERSPECTIVES IN EDUCATION A

Theme: School and Society.
In Session One, this subject seeks to introduce students to the History of Australian Education; Sociology of Education; Psychology of Education and Philosophy of Education. This section of the course will include blocks of lectures in the various discipline areas, together with tutorials. In Session Two, group discussions and seminars will be held on Australian Education as it affects pupils, teachers and communities. This section is intended to provide a link with perspectives introduced in Session One.

EDUC819 PERSPECTIVES IN EDUCATION B
Secondary students enrol in this subject.

EDUC820 PERSPECTIVES IN EDUCATION C
Primary students enrol in this subject.

Secondary students will choose two topics and Primary students one, from the variety which will be offered depending on staff availability. These subjects are designed to give students flexibility and to allow them to pursue in depth area(s) of their choice following on from EDUC818. It is strongly recommended that students choose topics outside the core areas of their undergraduate degrees. Examples of topics which may be offered are: Society and the School; Methods and Philosophies of Teaching; Language and English as a Second Language; The Education of the Exceptional Child; The Slow Learner; Testing and Evaluation - values and value judgments; Education of Minority Groups; Computers in Education; Individual Differences; the growth of Mass Schooling in Australia.

EDUC821 SOCIAL SCIENCE I METHOD
EDUC822 SOCIAL SCIENCE II METHOD

There are three alternatives, one of which qualified students must select at the time of enrolment. At the successful completion of the Graduate Diploma in Education Course the student's academic transcript will indicate the strand undertaken. (For example, EDUC822 Social Science Method IIA or EDUC822 Social Science Method IIB).

A. Senior Geography and Economics
To qualify to select this subject, students must meet minimum requirements of at least two years undergraduate study in either Geography or Economics and at least one year of the other subject.

B. Senior Geography and Social Science
To qualify to select this subject students must have a minimum of two years successful undergraduate study of Geography and at least one year of another acceptable Social Science (For example, Anthropology or Economic History or Political Science or Sociology).

C. Economics and Social Science
To qualify to select this subject, students must have a minimum of two years successful undergraduate study of Economics and at least one year of another acceptable Social Science (For example, Political Science or Demography or Archaeology).

EDUC831 ENGLISH METHOD
EDUC832 HISTORY METHOD
EDUC841 ENGLISH AS A SECOND LANGUAGE METHOD
EDUC842 FRENCH METHOD
EDUC843 GERMAN METHOD
EDUC844 ITALIAN METHOD
Students who wish to teach mathematics at the secondary school level will need to complete both of these subjects successfully.

Students who wish to teach at the primary school level will need to complete both of these subjects successfully.

Students who wish to teach science at the secondary school level will need to complete both of these subjects successfully.

Students who wish to teach art at the secondary school level will need to complete both of these subjects successfully.

Students who wish to teach music at the secondary school level will need to complete both of these subjects successfully.

If you are teaching at the secondary school level, you must complete both of these subjects. If you are teaching at the primary school level, you must also complete both of these subjects. If you are teaching science at the secondary school level, you must complete both science subjects. For art, you must complete both art subjects. If you are teaching music at the secondary school level, you must complete both music subjects.

900 level subject offered by the Faculty of Education.

EDUC905 DIRECTED STUDY IN EDUCATION I

EDUC906 DIRECTED STUDY IN EDUCATION II

EDUC907 DIRECTED STUDY IN EDUCATION III

Single or double session; 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 subject list, or negotiated on an individual basis to suit the student's specialisation.

EDUC910 INTRODUCTION TO EDUCATIONAL RESEARCH METHODOLOGY

Single or double session; 8 credit points (3 hrs per week on a single session basis; lectures and seminars)
Assessment: Assignments, laboratory reports, project and optional examination.

This subject is compulsory for all Master of Education students. Topics to be studied will be chosen from:

- Principles of Educational Research
- Descriptive Techniques
- Inferential Techniques
- 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.

Textbook
EDUC911 ADVANCED QUALITATIVE RESEARCH METHODS

Single or double session; 8 credit points (3 hrs per session on a single session basis)
Assessment: Assignment and a project

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: selection of samples, role of the ethnographer, data collection strategies, interpretation of data and the communication of findings.

Textbooks

EDUC912 ADVANCED QUANTITATIVE RESEARCH METHODS

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & seminars)
Assessment: Assignments, optional examination

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.

Textbooks

EDUC913 MINOR PROJECT IN EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & seminars)
Co-requisite: three subjects from the students area of specialisation.
Assessment: Research oriented project.

EDUC949 SCHOOL ADMINISTRATION

Single or double session; 8 credit points (3 hrs per week: on a single session basis; lectures & seminars)
Assessment: Assignments, optional examinations.

- Organisation for Instruction
- Grouping Procedures
- The Leadership Function
- Role Expectations
- Characteristics of Organisation
- Informal Organisation
ELECTRICAL AND COMPUTER ENGINEERING

INTRODUCTION

The following postgraduate degrees are available:

1. Honours Master of Engineering by Coursework or Research
2. Doctor of Philosophy

The schedule of subjects available for the Masters degree is set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject ELEC951 Thesis.

The specific requirements for the Masters degree and the descriptions of the subjects available are set out in the pages following the schedules of subject.

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ENGINEERING

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>ELEC901</td>
<td>Computer Aided Analysis and Design</td>
<td>6</td>
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<tr>
<td>ELEC911</td>
<td>Reliability Engineering</td>
<td>6</td>
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<tr>
<td>ELEC921</td>
<td>Matrix Analysis of Electrical Machines</td>
<td>6</td>
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<tr>
<td>ELEC922</td>
<td>Machines in Control Systems</td>
<td>6</td>
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<tr>
<td>ELEC923</td>
<td>Static Converters</td>
<td>6</td>
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<tr>
<td>ELEC924</td>
<td>Advanced Power Systems</td>
<td>6</td>
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<td>ELEC931</td>
<td>Control Computing</td>
<td>6</td>
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<td>ELEC941</td>
<td>Control System Analysis and Design</td>
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<td>ELEC942</td>
<td>Optimal Control Systems</td>
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<td>ELEC943</td>
<td>Nonlinear Control Systems</td>
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<td>ELEC944</td>
<td>Sampled-Data Control Systems</td>
<td>6</td>
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<tr>
<td>ELEC961</td>
<td>Noise and Information Theory</td>
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<tr>
<td>ELEC962</td>
<td>Electromagnetic Fields and Antennas</td>
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<tr>
<td>ELEC963</td>
<td>Microwave Devices and Electronics</td>
<td>6</td>
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<td>ELEC971</td>
<td>High Voltage Properties of Materials</td>
<td>6</td>
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<td>ELEC972</td>
<td>Air Pollution Control Techniques</td>
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<tr>
<td>ELEC981</td>
<td>Mathematical Methods in Electrical Engineering I</td>
<td>6</td>
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<tr>
<td>ELEC982</td>
<td>Mathematical Methods in Electrical Engineering 2</td>
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<tr>
<td>ELEC999</td>
<td>Advanced Topics in Engineering</td>
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<td>ELEC951</td>
<td>Thesis</td>
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<td>ELEC952</td>
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<td>ELEC953</td>
<td>Report</td>
<td>12</td>
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</tbody>
</table>
COURSE DESCRIPTION

1. HONOURS MASTER OF ENGINEERING

Under the Regulations for the degree of Honours Master of Engineering, candidates may meet the major requirements by satisfactorily completing:

(i) a thesis embodying the results of an investigation; or

(ii) a study comprising formal coursework; or

(iii) study comprising formal coursework and a minor thesis.

For 1989, unless demand warrants it, graduates wishing to undertake additional formal studies in electrical engineering will only be able to do so by following the prescription in Item (i) above.

The majority of engineering graduates seeking entry to the Honours Masters program will have qualifications which fall within one of four main categories, namely:

(1) A nominal 6 year, part-time pass degree e.g. BSc(Eng).

(2) A nominal 4 year, full time pass degree e.g. BE.

(3) A nominal 6 year, part time degree with Merit.

(4) A nominal full time, 4 year degree with Honours.

Those in categories (3) and (4) qualify for entry under Section 10(2) of the Honours Masters Degree Regulations, while those in categories (1) and (2) must seek entry under Section 10(3).

Entry Under Section 10(2) - Graduates with an Honours Degree at a standard of Class II, Division 2

Under Section 10(2) of the Honours Masters Degree Regulations, 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. Graduates in category (1) above could take a selection of 400-level subjects from the Engineering Schedule in the Undergraduate Calendar. However, it is expected that graduates in categories (1) and (2) will enrol in ELEC999 ADVANCED TOPICS IN ENGINEERING.

For 1989, unless demand warrants it, no formal postgraduate course work subjects will be offered. In any year a restricted range of topics only will be offered in ELEC999 Advanced Topics in Engineering. Graduates intending to enrol should arrange to discuss their desired program with the Department as soon as possible in order to ensure that an appropriate selection of topics will be offered. Lectures normally begin at the end of February.

Subject to the approval of the Head of the Department and the Board of Research and Postgraduate Studies, courses offered by other Departments will be acceptable for the Honours Masters course in electrical Engineering.

SUBJECT DESCRIPTIONS


Unless otherwise stated each subject comprises 56 hours of lectures and tutorials, is worth six credit points and may be offered in the first or second session or throughout the year.
There are no set textbooks or recommended reading but each year reading lists will be set from the published literature.

**ELEC901 COMPUTER AIDED ANALYSIS AND DESIGN**


**ELEC911 RELIABILITY ENGINEERING**

Methods of analysis, modelling, probabilistic system analysis and design. Redundant systems, computer techniques and reliability optimisation. Fault identification techniques.

**ELEC921 MATRIX ANALYSIS OF ELECTRICAL MACHINES**

Derivation of mathematical models, properties and applications of transformations, solution methods; non-ideal machines.

**ELEC922 MACHINES IN CONTROL SYSTEMS**

Stability and transient performance, heating and ratings, simplified models, converter-fed a.c. and d.c. machines as control system elements.

**ELEC923 STATIC CONVERTERS**

Properties, protection and control of high power solid state switching elements. Characteristics of rectifiers, inverters, pulse and cycloconverters and their application to a.c. and d.c. variable speed drives.

**ELEC924 ADVANCED POWER SYSTEMS**

An advanced course on industrial and high voltage power systems dealing with load flow, faults, stability, transients, insulation co-ordination, economic evaluations and application of computers.

**ELEC931 CONTROL COMPUTING**


**ELEC941 CONTROL SYSTEM ANALYSIS AND DESIGN**

A unified approach using "classical" and "modern" methods to treat the control problems of identification, representation and solution, stability, design and optimisation.

**ELEC942 OPTIMAL CONTROL SYSTEMS**

Problem formulation and methods of solution including advanced optimisation techniques, variational, dynamic programming and Pontryagin's Maximum Principle.

**ELEC943 NONLINEAR CONTROL SYSTEMS**

Analysis of nonlinear control systems including numerical, series approximation, graphical and describing function methods. Stability investigation using Lyapunov's methods and extensions, and functional methods.

**ELEC944 SAMPLED-DATA CONTROL SYSTEMS**

Topics related to the use of digital equipment in control systems. Analysis and synthesis of control systems using sampling techniques.

**ELEC961 NOISE AND INFORMATION THEORY**

Principles of coding, channel capacity, redundancy; application of information theory to engineering systems.

**ELEC962 ELECTROMAGNETIC FIELDS AND ANTENNAS**

Analysis of biconical and cylindrical antennae, aperture radiating systems. Obstacles and mounts in waveguides,
numerical methods for solution of field problems.

**ELEC963 MICROWAVE DEVICES AND ELECTRONICS**

Scattering matrix analysis; structures and mounts; transistor amplifiers; parametric amplifiers; Impatt and Gunn devices; electron beam devices.

**ELEC971 HIGH VOLTAGE PROPERTIES OF MATERIALS**

Electrical conduction and breakdown in gases, liquids and solids. Advanced application of ionised gases. Generation and measurement of high voltages and non-destructive dielectric test techniques.

**ELEC972 AIR POLLUTION CONTROL TECHNIQUES**

Surface, dynamic, optical and adhesive properties of particulates, effects of particulates and gases on air quality, basic theory of particulate collection using electrostatic, inertial and gravitational forces, filtration and measurement methods.

**ELEC981 MATHEMATICAL METHODS IN ELECTRICAL ENGINEERING 1**

Transform methods applied to analysis and synthesis problems arising in electrical engineering, properties and applications of Fourier, Laplace and Z transforms.

**ELEC982 MATHEMATICAL METHODS IN ELECTRICAL ENGINEERING 2**

Time domain methods applied to analysis and synthesis problems arising in electrical engineering, state variable methods, linear and nonlinear systems, input-output and convolution.

**ELEC951 THESIS**

48 credit points

**ELEC952 THESIS**

24 credit points

**ELEC953 REPORT**

12 credit points

**ELEC999 ADVANCED TOPICS IN ENGINEERING**

Double session subject, 48 credit points

12 hrs per week, including 2 seminar hrs and some project work

Assessment: Formal examinations, tests, assignments and associated (if any) experimental work.

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.

The subject may include topics from:

- Air, noise and water pollution
- Air pollution control techniques
- Anisotropic elasticity
- Analogue and digital filters
- Antennas
- Boiling heat transfer
- Boundary layer theory
- Computer aided analysis and design
- Computer methods
- Conformal mapping
- Control computing
- Economic and social evaluation of engineering projects
- Electrical properties of materials
- Energy from the environment
- Field theory
- Finite element techniques
- Heat and mass transfer
- Microscopic thermodynamics
- Microwave electronics
- Modern control systems theory
- Noise and information theory
- Numerical techniques
- Power system, analysis and design
- Process control
- Propagation
- Refrigeration and air conditioning
- Signal processing
- Simulation
- Static converters
- Structural dynamics
- Structural topology
- Transient performance of machines
- Variational methods
ENGLISH

INTRODUCTION

The following postgraduate degrees are available:

1. Honours Master of Arts by coursework (Post-colonial Literatures)
2. Honours Master of Arts by Research
3. Doctor of Philosophy

The schedule of subjects available for the Masters degree is set out below.

For the Doctor of Philosophy and Honours Master of Arts, candidates enrol in ENGL999.

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 coursework MA are italicised.

Alternative and community theatre/drama
Art, literature and industry in the eighteenth and nineteenth centuries
Aboriginal writing
Australasian theatre
Australian literature
Canadian literature
Caribbean literature

CHILDREN'S LITERATURE

Contemporary Screen Theory
Cross cultural literature
Cultural theory and literature
Dramaturgy
Early seventeenth-century literature and culture
Early Tudor literature
Eighteenth-century literature
Elizabethan literature
Fantasy and Utopian writing
Gender and genre
Indian writing in English
Lexicography
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
Old English language and literature
Old Icelandic language and literature
Pacific literature
Place names
Popular media and popular culture
Popular literature
Radical, alternative and independent cinema
Screen theory, practice and criticism
Shakespeare
Sixteenth century lexicography
Text-to-performance studies in theatre
Textual criticism and computer-generated editions
Theories of the modern stage

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ARTS

Number | Subject | Credit Points
---|---|---
Prescribed topics
ENGL902 | Dissertation (20,000 words) | 24
ENGL903 | Post-colonial literary issues | 8
ENGL907 | Literature from colonising societies | 8
ENGL908 | Literature from colonised societies | 8

Optional topics (six of the following)
ENGL904 | Critical theory A | 8
ENGL905 | Critical theory B | 8
ENGL906 | Twentieth century post-colonial poets | 8
HONOURS MASTER OF ARTS (Cont'd)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>ENGL909</td>
<td>Australian literature since 1920</td>
<td>8</td>
</tr>
<tr>
<td>ENGL910</td>
<td>Twentieth century women writers</td>
<td>8</td>
</tr>
<tr>
<td>ENGL911</td>
<td>Comparative Australian-Canadian writing</td>
<td>8</td>
</tr>
<tr>
<td>ENGL912</td>
<td>Literary perspectives on Asia</td>
<td>8</td>
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<tr>
<td>ENGL913</td>
<td>Major modern writers</td>
<td>8</td>
</tr>
<tr>
<td>ENGL914</td>
<td>Contemporary Writing</td>
<td>8</td>
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<tr>
<td>ENGL915</td>
<td>Drama &amp; Arts Theatre in other Cultures</td>
<td>8</td>
</tr>
<tr>
<td>ENGL916</td>
<td>Nineteenth century American literature</td>
<td>8</td>
</tr>
</tbody>
</table>

HONOURS MASTERS OF ARTS

ENG999 Major thesis

COURSE DESCRIPTION

HONOURS MASTER OF ARTS BY COURSEWORK

Pass degree entry

A 96 credit point Master of Arts by coursework is available to students with the degree of Bachelor of Arts with a major in English at credit average or better. The degree will run over a two-year period for full-time students, three years for part-time candidates as set out above.

Honours entry

Students with an Honours degree of at least II.2 standard or its equivalent may enter the coursework M.A. with an accreditation of 48 points. Such a degree will run over one year full-time, or two years part-time. Their course will consist of the dissertation and at least one of the prescribed topics, with the balance of a 48-point total determined after consultation with the Head of Department.

Description

The area of focus for studies will be critical approaches to the New Literatures in English. These comprise the literature in English appearing from a history of colonial presence in various nations, mostly (but not entirely) belonging to the British Commonwealth. Once regarded as peripheral and culturally derivative, this writing has produced some of the modern greats of 'English' literature - V.S. Naipaul, Margaret Atwood, Patrick White, Salman Rushdie, Nadine Gordimer, Derek Walcott and, of course, writers from that other former colony, the United States. The course will consider those complex interactions of culture, politics and aesthetics common to the whole field and particular to each of its regions.

SUBJECT DESCRIPTIONS

ENGL903 POST-COLONIAL LITERARY ISSUES

Single session: 8 credit points (3 hours per week, seminar)
Assessment: 4 written assignments

A survey of relationships between culture and conceptions of genre, character and language, plus consideration of the cultural politics of colonialism and effects on critical practice - the relationship between British and other literatures in English; the question of universal literary values; nationalism and aesthetics. Discussion will be based on selected poetry and fiction, and readings in criticism.

TEXTBOOKS

Gabriel Okara, The Voice, Heinemann
Amos Tutuola, The Palm-wine Drinkard, Faber
Wilson Harris, Palace of the Peacock, Faber
Ngugi wa Thiong'i, Petals of Blood, Heinemann
Jean Rhys, Wide Sargasso Sea, Penguin
Other material to be selected from a bibliography of primary and secondary work.

ENGL904 CRITICAL THEORY A
ENGL905 CRITICAL THEORY B

Sessions 1 & 2 respectively: 8 credit points each (3 hours per week seminar)
Assessment: 4 written assignments

A study of current international theories of literature and culture such as semiotics, post-structuralism, feminism, narrative theory, reception aesthetics, Marxism. Students will be expected to engage in conceptual discussion of original critical texts.

TEXTBOOKS
Readings from a wide-ranging bibliography of critical material.
Refer to the English Department.

ENGL906 TWENTIETH-CENTURY POST-COLONIAL POETS

Session 1: 8 credit points (3 hours per week, seminar)
Assessment: 4 written assignments

An extended study of the work of five major poets selected from different areas of the Commonwealth: Australia, New Zealand, Canada, the Caribbean, India or Africa.

TEXTBOOKS
Allen Curnow, Collected Poems, OUP/Reed
Nissim Ezekiel, Latter-day Psalms, Three Crowns
A. D. Hope, Collected Poems 1942-1970, Angus & Robertson
A. D. Hope, A Late Picking, Angus & Robertson
Christopher Okigbo, Labyrinth & Path of Thunder, Heinemann
Derek Walcott, Another Life, Three Continents Press
Derek Walcott, Selected Poems (ed. Brown), Heinemann
James Wieland, The Ensphering Mind, Three Continents Press
For additional reading consult the Department

ENGL907 LITERATURE FROM COLONISING SOCIETIES

Session 1: 8 credit points (3 hours per week, seminar)
Assessment: 4 written assignments

A survey of cultural and critical issues peculiar to 'Dominion' countries such as Australia, New Zealand, Canada and South Africa and other white-dominated societies such as the US. Themes such as the representation of the land, the formation of a local cultural identity, the modification of expressive language, frontier writing, will be explored through selected readings of critical essays in tandem with representative poetry, fiction and drama.

TEXTBOOKS
Olive Schreiner, The Story of an African Farm, Penguin
Doris Lessing, The Grass is Singing
Nadine Gordimer, The Conservationist, Penguin
Margaret Atwood, Surfacing
Patrick White, Voss, Penguin
Xavier Herbert, Capricornia
Kylie Tennant, The Battlers, Angus & Robertson
Murray Bail, Homesickness, Penguin
Frank Sargeson, The Stories of Frank Sargeson, Penguin
William Satchell, The Greenstone Door
Ralph Gustafson (ed), The Penguin Book of Canadian Verse
Ian Wedde & Harvey McQueen (eds), The Penguin Book of New Zealand Verse
Check with Department for current paperback editions where necessary.

ENGL908 LITERATURE FROM COLONISED SOCIETIES

Session 2: 8 credit points (3 hours per week, seminar)
Assessment: 4 written assignments

A survey of cultural and critical issues peculiar to those societies dominated by a minority colonialist government (Africa, India, the Caribbean, the Pacific, Southeast Asia). A representative selection of fiction, poetry and drama will be studied together with critical essays as
a basis for discussing such themes as the relationship between tradition and modernity, the importance of racism, pre-independence nationalist assertion, post-independence disillusion and existential displacement.

**TEXTBOOKS**

Chinua Achebe, *Things Fall Apart*, Heinemann
Ayi Kwei Armah, *The Beautiful Ones are Not yet Born*, Heinemann
Camara Laye, *The Radiance of the King*, Fontana
Wole Soyinka, *Kongi's Harvest/The Road*, Oxford
Gerald Moore & Ulli Beier (eds), *The Penguin Book of Modern African Poetry*
Raja Rao, *Kanthapura*, Orient Paperback
R. Parsatharathy (ed), *Ten Twentieth-century Indian Poets*, Oxford
V.S. Naipaul, *A House for Mr Biswas*, Penguin
George Lamming, *In the Castle of my Skin*, Longman
Paula Burnett (ed), *The Penguin Book of Caribbean Verse in English*

**ENGL909 AUSTRALIAN LITERATURE SINCE 1920**

*Session 2: 8 credit points (3 hours per week, seminar)*

**Assessment:** 4 written assignments

An extended study of poetry and fiction coalescing around the major literary-cultural shifts of the post-war period: bush balladry to modernism, the social realist saga to poetic fiction, the institutionalising of Australian Literature, the Generation of 68 poetry, cosmopolitan experimentalism and the short story, ethnic pluralism.

**TEXTBOOKS**

Kenneth Slessor, *Poems*, Angus & Robertson
Gwen Harwood, *Collected Poems*, Angus & Robertson
Les Murray, *The Vernacular Republic*, Angus & Robertson
Kevin Gilbert, *Inside Black Australia*, Penguin
Patrick White, *The Tree of Man*, Penguin
Christina Stead, *The Man who loved Children*, Penguin
David Malouf, *An Imaginary Life*, Picador
Peter Carey, *Illywhacker*, UQP
Brian Kiernan (ed), *The Most Beautiful Lies*, Angus & Robertson

**ENGL 910 TWENTIETH-CENTURY WOMEN WRITERS**

*Session 2: 8 credit points (3 hours per week, seminar)*

**Assessment:** 4 written assignments

Advanced discussion of an extended range of fiction and poetry by major women writers from Australia, Canada, Britain, the US and New Zealand.

Critical issues will be the basis for discussion of the texts.

**TEXTBOOKS**

Margaret Atwood, *Bodily Harm*, Virago
Sylvia Plath, *Collected Poems*, Faber
Margaret Laurence, *The Diviners*, Bantam
Rosemary Dobson, *Selected Poems*, Angus & Robertson
Olga Masters, *The Home Girls*, UQP
Fleur Adcock, *Selected Poems*, OUP
Kath Walker, *Selected Poems*, Angus & Robertson
Sally Morgan, *My Place*, Fremantle Arts Centre
Keri Hulme, *Te Kaihau*, UQP

**ENGL911 COMPARATIVE AUSTRALIAN-CANADIAN WRITING**

*Session 1: 8 credit points (3 hours per week, seminar)*

**Assessment:** 4 written assignments

A specialised investigation of paired works of fiction by contemporary Canadian and Australian writers with the
object of discerning common cultural and literary formations and the effect of the post-colonial experience upon the writers.

**TEXTBOOKS**

Marian Engel, *Bear*, Routledge & Kegan Paul
David Ireland, *A Woman of the Future*, Penguin
Elizabeth Jolley, *Milk and Honey*, Fremantle Arts Centre
Kate Grenville, *Lillian's Story*, UQP
Aritha van Herk, *No Fixed Address*, McLelland & Stewart
Olga Masters, *A Long Time Dying*, UQP
Ethel Wilson, *The Innocent Traveller*, McLelland & Stewart
Ethel Anderson, *At Parramatta*, Penguin

ENGL912 LITERARY PERSPECTIVES ON ASIA

**Session 1:** 8 credit points (3 hours per week, lecture & seminar)
**Assessment:** 4 written assignments

An application of the ideas in Said's *Orientalism* to modern fictional treatments of the East, with a comparison of works from outside and inside the cultures concerned, and from within and after the colonial period.

The sociological dynamics of the cross-cultural experience will be linked to problems of literary representation of otherness in order to assess the merits of categorising cross-cultural literature as a genre or sub-genre.

**TEXTBOOKS**

Blanche D'Alpuget, *Turtle Beach*, Penguin
Anita Desai, *Bye Bye Blackbird*, Orient Paperback
G.V. Desani, *All about H. Hatter*, Penguin
J.G. Farrell, *Singapore Grip*, Flamingo

Lloyd Fernando, *Scorpion Orchid*, Heinemann
Lloyd Fernando (ed), *Twenty-two Malaysian Stories*, Heinemann
E.M. Forster, *A Passage to India*, Penguin
Rudyard Kipling, *Kim*, OUP
C.J. Koch, *The Year of Living Dangerously*, Granada
Raja Rao, *The Serpent and the Rope*, Orient paperbacks

ENGL913 MAJOR MODERN WRITERS

**Session 2:** 8 credit points (3 hours per week, lecture & seminar)
**Assessment:** 4 written assignments

A survey of major works in the Modernist mode to determine some of the characteristics of the literary programme and their connection to cultural movements. The phenomenon of marginal or post-colonial figures moving into the centre of European cultural formation (Eliot and Pound, Yeats and Joyce, Mansfield) is one of the salient features of this period.

**TEXTBOOKS**

W.B. Yeats, *Selected Poetry*, Macmillan
Wilfred Owen, *Selected Poems*, Australasian Publishers
James Joyce, *A Portrait of the Artist as a Young Man*, Penguin
T.S. Eliot, *Four Quartets*, Faber
Virginia Woolf, *The Waves*, Panther

For other books see Department

ENGL914 CONTEMPORARY WRITING

**Session 1:** 8 credit points (3 hours per week, lecture & seminar)
**Assessment:** 4 written assignments

The course offers an extended investigation of some of the literary trends in recent times through a sampling of major works of drama, poetry and fiction. Theatre of violence and the absurd,
metafiction, the nouveau roman, and the modern short story are some of the literary forms that may be treated.

**TEXTBOOKS**

Samuel Beckett, *Endgame*, Faber
Italo Calvino, *Invisible Cities*, Picador
Robert Coover, *Pricksongs and Descants*, New American Library
Gabriel García Márquez, *Chronicle of a Death Foretold*, Picador
Seamus Heaney, *Selected Poems*, Faber
Galway Kinnell, *Selected Poems*, Houghton Mifflin
Peter Schaeffer, *Amadeus*, Penguin
For other texts see the Department

**ENGL915 DRAMA AND ARTS THEATRE IN OTHER CULTURES**

Session 1: 8 credit points (3 hours per week, seminar/workshop)
Assessment: two sessional essays, one seminar paper/presentation, one practical project

An expanded appreciation of theatre traditions from India, Japan, Australia, Indonesia and Africa, with investigation of their transformation in modern post-colonial theatrical applications and their influence on Western drama. Examples will be drawn from:

Asian drama (Japanese Noh and Kabuki, Indonesian Wayang, Kathakali dance, Chinese opera)
Folk theatre of Eastern Europe (Polish, Macedonian, etc.)
Traditional forms from tribal cultures (Australian Aboriginal, Melanesian, Oceanic, African, Maori)
New drama by indigenous peoples from post-colonial cultures (Black theatre in Australia, plus examples from the Pacific, Africa, the Caribbean, India, Canada)

**TEXTBOOKS**

Cao Zueain, *The Dream of the Red Chamber*, (Chinese opera on film)

Arthur Waley, *The Noh Theatre of Japan*, Tuttle
Rendra, *The Struggle of the Naga Tribe*, UQP
Vilsoni Hereniku, *Two Plays*, Mana
Derek Walcott, *The Joker of Seville/Oh Babylon*, Cape
Wole Soyinka, *Collected Plays*, OUP
Mbongeni Ngema, *Woza Albert*, (film)
Kevin Gilbert, *The Cherry Pickers*
Bob Maza, *Mereki*
Jack Davis, *No Sugar/Barungin*
Robert Merritt, *The Cake Man*
For publication details of some of the above, see the Department

**ENGL916 NINETEENTH-CENTURY AMERICAN LITERATURE**

Summer Session: 8 credit points (4 hours per week, 2 lectures, seminar)
Assessment: 4 written assignments

A study of selected nineteenth-century fiction and poetry with particular emphasis on the dynamics of cultural formation in an emerging New World post-colonial society.

**TEXTBOOKS**

Nathanael Hawthorne, *Twice-told Tales*, Penguin
Herman Melville, *Moby Dick*, Penguin
Edgar Allen Poe, *Tales of Mystery and Imagination*, Pan
Mark Twain, *Huckleberry Finn*, Signet
For additional texts, see the Department
GEOGRAPHY

INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Science
2. Master of Arts, Master of Science
3. Honours Master of Arts by Research or Coursework
4. Honours Master of Science by Research or Coursework
5. Doctor of Philosophy

For the Graduate Diploma, subjects are selected from the undergraduate schedules of subjects set out in Volume II of the Calendar. Please refer to the information about this diploma on the following pages.

The schedules of subjects available for the Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject GEOG999 Thesis.

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:

Agricultural geography
Coastal geomorphology
Environmental prehistory
Fluvial geomorphology
Environmental impacts
Urban studies
Remote sensing applications
Biogeography
Natural hazards
Population studies
Regional development and planning
Transport planning
South-east Asian studies
Socio-spatial variations in welfare
Ageing and the elderly
Health and welfare service planning
Evolution of the Australian eastern highlands

SCHEDULE OF GRADUATE SUBJECTS

MASTER OF ARTS, MASTER OF SCIENCE

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HONOURS MASTER OF SCIENCE

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COURSE DESCRIPTIONS

1. 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 environment, urban, regional or social planning. In addition to the University's
regulations for graduate diplomas, candidates for the Graduate Diploma in Science shall:

i) complete Geography subjects to a value of not less than 48 credit points from those listed in the General Schedule at least 24 credit points being for subjects at the 300-level and the remainder at 200-level, provided that, by approval of the Head of the Department of Geography, 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 the Department, are substantially equivalent in the 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 the Department before enrolling.

iv) successfully complete the graduate diploma program in not more than 4 academic sessions.

2. MASTER OF ARTS, MASTER OF SCIENCE

The Department of Geography offers a program of postgraduate level subjects which leads to the degree of Master of Science or Master of Arts (Geography). This program has been devised to meet the needs of students who wish to proceed beyond the 3 year pass degree but for whom the research component of the Honours degree and the scale of the Honours Masters degree are inappropriate.

Students entering the program with a pass degree in Geography or some other appropriate discipline will be required to complete subjects with a value of 48 credit points. Entry to the course will be dependent upon approval by the Departmental Head.

Subjects will be selected from:

normally

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All subjects involve up to 4 contact hours per week. Subject availability and content will vary from year to year depending on staff availability.

3. HONOURS MASTER OF ARTS

Introduction

There is an increasing need in the community for graduates in Geography with more advanced and extensive knowledge of the discipline than is commonly attained by the 3 year pass degree holder. Such a need is not always most appropriately satisfied by requiring graduates to embark on the fourth year Honours program with its heavy research component. Accordingly, the Department of Geography offers a program of postgraduate level coursework leading to the degree of MA (Hons) in Geography.

Such qualifications will be of particular use to geographers engaged in Education or employed in other areas such as the various branches of the Public Service, in
GEOGRAPHY

Local Government or in Planning Consultancies where an up to date knowledge or urban, social and environmental matters is required.

Structure

Students entering the program with a degree in Geography or some other appropriate discipline at a standard less than Honours Class II, Division 2 (Category A) will be required to complete subjects with a value of at least 96 credit points. Those with an Honours degree at a standard of Class II, Division 2 or higher or its equivalent (Category B) will be required to complete subjects with a minimum value of 48 credit points.

Category A

Students are required to take their first 48 credit points from the following subjects.

Normally,

GEOG901 The Nature and Development of Geography

and

three of the following

GEOG902 Agricultural Geography
GEOG903 Asian Development Problems
GEOG904 Population Dynamics
GEOG905 Social Geography
GEOG906 Transport Systems
GEOG907 Regional Planning
GEOG908 Urban Analysis
GEOG909 Regional Analysis
GEOG910 Economic Geography
GEOG911 Australian Historical Geography
GEOG912 Biogeography
GEOG913 Soils and Soil Landscapes
GEOG914 Environmental Assessment and Planning
GEOG915 Slope Form and Process
GEOG916 Surface Hydrology
GEOG917 Channel Form and Process
GEOG918 Cainozoic Geomorphology
GEOG919 Climate
GEOG920 Evolution and Coastal Landforms
GEOG921 Curriculum Studies in Geography 'A'
GEOG922 Curriculum Studies in Geography 'B'

Category B

Category B students and Category A students who have completed their first 48 credit points will select subjects with a value of at least 48 credit points from

Either

A (i)

GEOG923 Minor Thesis in Geography
OR
GEOG933 Research Project A
and
GEOG934 Research Project B
OR
GEOG935 Special Research Project

and

(ii) two of the following

GEOG924 Advanced Topics in Economics Geography
GEOG925 Advanced Topics in Social Geography
GEOG926 Advanced Topics in Urban Geography
GEOG927 Advanced Topics in Coastal Geomorphology
GEOG928 Advanced Topics In Fluvial Geomorphology
GEOG929 Advanced Topics in Environmental Management
GEOG930 Advanced Topics in the Evolution of Landscapes
GEOG931 Advanced Topics in Biogeography
GEOG932 Advanced Curriculum Studies in Geography

OR

B.

GEOG999 Major Thesis

Topics dealt with in these subjects and the subjects offered will vary from year to year according to staff availability. Assessment in all subjects may involve assignments, projects and examination. All subjects involve 4 hours contact per week.
4. HONOURS MASTER OF SCIENCE

Suitably qualified students may enrol for the Honours Master of Science in Physical Geography by coursework, coursework and minor thesis or major thesis.

Structure

Students entering the program with a degree in Geography or some other appropriate discipline at a standard less than Honours Class II, Division 2 (Category A) will be required to complete subjects with a value of at least 96 credit points. Those with an Honours degree at a standard of Class II, Division 2 or higher or its equivalent (Category B) will be required to complete subjects with a minimum value of 48 credit points.

Category A

Normally,

GEOG901 The Nature and Development of Geography
and
36 credit points from the following subjects

GEOG912 Biogeography
GEOG913 Soils and Soil Landscapes
GEOG914 Environmental Assessment and Planning
GEOG915 Slope Form and Process
GEOG916 Surface Hydrology
GEOG917 Channel Form and Process
GEOG918 Cainozoic Geomorphology
GEOG919 Climate
GEOG920 Evolution of Coastal Landforms

Category B

Category B students and Category A students who have completed their first 48 credit points will select subjects with a value of at least 48 credit points from

Either

A GEOG923 Minor Thesis in Geography and two of the following

B GEOG927 Advanced Topics in Coastal Geomorphology
GEOG928 Advanced Topics in Fluvial Geomorphology
GEOG929 Advanced Topics in Environmental Management
GEOG930 Advanced Topics in The Evolution of Landscape
GEOG931 Advanced Topics in Biogeography

OR

GEOG999 Major Thesis

All subjects involve up to 4 contact hours per week. Subject availability and content will vary from year to year depending on staffing levels.

SUBJECT DESCRIPTIONS

The content of postgraduate subjects will be determined by the Head of the Department, taking into consideration the availability of staff and the interests and previous work of students.
INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Science (Coal Geology)
2. Master of Science
3. Honours Master of Science
   (a) Coal Geology by Coursework
   (b) Geology by Research or Coursework
4. Doctor of Philosophy

The schedules of subjects available for the Masters degrees and the diploma are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject GEOL999 Thesis.

The specific requirements for the Masters degree and diploma and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

Key Centre for Mines

Teaching at the postgraduate level is being integrated with the work of the Key Centre for Mines which incorporates aspects of Geology, Mining Engineering and Mineral Processing teaching and research at the Universities of New South Wales and Wollongong.

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:

- The geology of coal measures, coal utilisation.
- Biostratigraphy of the Early and Middle Palaeozoic rocks of Australasia.
- Organic geochemistry.
- Economic and environmental geology.
- The geology of oil shales.
- Petroleum geology.
- Organic petrology of petroleum source rocks.
- Sedimentology of terrestrial and shallow marine sequences.
- Geology of volcaniclastic sequences.
- Petrography and geochemistry of igneous and metamorphic rocks.
- Structural geology and tectonics.

SCHEDULE OF GRADUATE SUBJECTS

GRADUATE DIPLOMA IN SCIENCE (COAL GEOLOGY)

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MASTER OF SCIENCE

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# Course Descriptions

## 1. Graduate Diploma in Science (Coal Geology)

This course will provide:

1. a mechanism which permits practising geologists within the industry to acquire the knowledge necessary to improve their performance, and holders of a general geology degree to specialize in an expanding field of employment.
This course will be an inservice or "sandwich-type" course aimed at upgrading and updating professional expertise in areas of rapid development.

Students will be required to spend a total of approximately ten weeks on campus in the two years, generally two and a half weeks in January-February and two and a half weeks in June-July each year.

Admission Requirements
Applicants for admission are required to -
(3) have a degree with a major in Geology from the University of Wollongong or an approved degree from another tertiary institution; or
(4) have other appropriate qualifications and professional experience.

Course Structure
The basic structure of the course will be part-time extending over two academic years.

It will consist of two parts -

(a) Lectures, tutorial, practical and formal field work which will involve eight weeks of full-time instruction during the course, the periods of such instructions being when possible in the University vacations. (These subjects are GEOL981 to GEOL988 inclusive).

(b) One project. Presentation of the results will be in the form of a report.

For assessment purposes the weighting of Parts A and B will be equal.

Teaching in the course will emphasize the use of the "case history" approach utilizing the extensive experience of the staff of the University and that of invited lecturers.

2. MASTER OF SCIENCE

The Department of Geology offers a program of postgraduate level subjects which leads to the degree of Master of Science. It is designed for applicants from Industry and Education, and for students who wish to proceed beyond the three year pass degree but for whom the research component of the Honours degree is inappropriate.

Students entering the program with a pass degree in Geology or other approved courses will be required to complete subjects with a value of 48 credit points. For other requirements see the Pass Master degree regulations in this volume.

Entry to the course will be dependent upon approval by the Board of Research and Postgraduate Studies on the advice of the Head of the Department of Geology.

Students must consult the Head of the Department of Geology for approval of their proposed choice of subjects.

Subjects will normally be selected from the Schedule of Subjects for the Master of Science degree. Subjects to be offered each year will depend upon student and staff availability.

3. HONOURS MASTER OF SCIENCE

(a) Coal Geology

Students will be required to complete a program of study with a total value of at least 96 credit points. The formal coursework is equivalent to 48 credit points and the remaining 48 credit points will consist of project and thesis work.

The assessment of the student's performance in the course shall be made by the Board of Research and Postgraduate Studies on the recommendation of the Departmental Assessment Committee.

Students will be required to spend a total of approximately four (4) weeks per year at the University over a period of two years. Two weeks will be in November-December or January-February and two weeks in June-July each year.

A University hall of residence may be available during the periods of the course for accommodation.
Course Outline

The course consists of two parts:

Part A  The subjects GEOL901 to GEOL988 inclusive.

Part B  GEOL950 and GEOL989.

Part A  Formal Coursework - 48 credit points (for GEOL981 to 988 inclusive)

The syllabus for the formal coursework comprises eight subjects each of which will be covered in forty-eight hours of lectures/tutorials and associated laboratory/field work. Each subject counts as 6 credit points. Assessment is on the basis of written assignments set during the formal coursework.

Part B  Project and Thesis - 48 credit points (GEOL950, GEOL989)

This will be in two sections. The first will be predominantly a literature survey. The second and more major study will involve a field or laboratory study (or both) of a problem in coal geology. Students employed in the coal industry will be encouraged to choose topics which are relevant to their employment.

Admission Requirements

Applicants for admission are required to have a degree with a major in Geology from the University of Wollongong or an approved degree from another tertiary institution.

(b)  Geology

Introduction and Objectives

The rapid development of earth sciences has produced a need for postgraduate coursework. The courses offered by the Department 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 those described below, in accordance with the Honours Masters Degree Regulations.

Students entering with an Honours degree in Geology 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 Board of Research and Postgraduate Studies on the advice of the Head of the Department of Geology.

Selection of Subjects

Students must consult the Head of the Department of Geology, for approval of their proposed choice of subjects.

Strands

The following subject combinations may be varied to take account of the candidates qualifications, objectives and study plan.

1. Petroleum Geology
   96 credit points from
   GEOL334 Fossil Fuels
   GEOL916 Organic Geochemistry
   GEOL917 Aspects of Petroleum Geology
   GEOL982 The conditions of Peat Formation
   GEOL983 Coalification, Coal & Mineral Analysis
   GEOL984 Coal Basin Setting & Analysis
   GEOL950 Project A
   GEOL999 Major Thesis

2. Igneous and Metamorphic Petrology
   GEOL905 Mathematical Geology
   GEOL906 Metamorphism
   GEOL914 Volcanology
   GEOL912 Advanced Topics in Geology C
   GEOL918 Analytical Methods in Geology
3. Sedimentology
GEOL905 Mathematical Geology
GEOL906 Metamorphism
GEOL908 Sedimentology
GEOL984 Coal Basin Setting and Analysis
Either GEOL903 Biostratigraphy, OR GEOL915 Structural Geology and Tectonics
GEOL950 Project A
GEOL999 Major Thesis

4. Structural Geology and Tectonics
GEOL915 Structural Geology and Tectonics
GEOL907 Aspects of Geophysics
GEOL912 Advanced Topics in Geology C
GEOL950 Project A
GEOL999 Major Thesis
and any 12 credit points from:
GEOL906 Metamorphism
GEOL908 Sedimentology
GEOL917 Aspects of Petroleum Geology
GEOL984 Coal Basin Setting and Analysis
GEOL985 Geological and Geophysical Exploration
GEOL986 Mining Coal

5. Palaeontology and Stratigraphy
GEOL903 Biostratigraphy
GEOL905 Mathematical Geology
GEOL908 Sedimentology
GEOL910 Advanced Topics in Geology A
GEOL950 Project A
GEOL999 Major Thesis

Pre-Requisites
The minimum pre-requisite for all subjects is that the student must have graduates with at least 24 credit points of 300-level Geology subjects.

Proposed Postgraduate Subject Offerings Over A Two Year Period
Subjects to be offered in any year will depend upon student and staff availability but are normally offered in a two year cycle as summarised below.

First Session 1989
GEOL905 Mathematical Geology
GEOL907 Aspects of Geophysics
GEOL918 Analytical Methods in Geology
GEOL983 Coalification, Coal and Mineral Analysis
GEOL984 Coal Basin Setting and Analysis

Second Session 1989
GEOL903 Biostratigraphy
GEOL908 Sedimentology
GEOL916 Organic Geochemistry
GEOL985 Mining Coal
GEOL986 Geological and Geophysical Exploration

First Session 1990
GEOL914 Volcanology
GEOL917 Aspects of Petroleum Geology
GEOL987 Coal Utilization
GEOL988 Environmental Aspects

Second Session 1990
GEOL906 Metamorphism
GEOL915 Structural Geology and Tectonics
GEOL981 Coal in the Energy Pattern
GEOL982 The Conditions of Peat Formation

SUBJECT DESCRIPTIONS

GEOL903 BIOSTRATIGRAPHY

Single Session Subject; 6 credit points (14 hrs lectures and 14 hrs tutorials) Assessments, and written examination at the end of session.

Australian and, to a lesser extent, other sequences of special interest.

Important faunal groups, assemblages and sequences, from the point of view of
morphology, taxonomy, ecology, palaeogeography, correlation.

Principles of, and recent developments in, correlation.

**GEOL905 MATHEMATIC GEOLOGY**

*Single Session Subject; 6 credit points (14 hrs lectures and 14 hrs tutorials)*
Assessments, and written examination at the end of session.

The quantitative approach in geology. Experimental design as applied to normal field activities. Recent case studies in applying mathematical methods.

**GEOL906 METAMORPHISM**

*Single Session Subject; 6 credit points (14 hrs lectures and 14 hrs tutorials)*
Assessments, and written examination at the end of session.

Metamorphic mineral paragenesis with examples of metamorphic facies.

Thermodynamic considerations for equilibrium mineral assemblages.

Patterns of igneous phenomena and crystal liquid equilibria.

**GEOL907 ASPECTS OF GEOPHYSICS**

*Single Session Subject; 6 credit points (14 hrs lectures and 14 hrs tutorials)*
Assessments, and written examination at the end of session.

Principles of, and recent developments in, geophysics. Application of geophysical studies and techniques in exploration, geology and mining and the determination of the earth's structure; case studies.

**GEOL908 SEDIMENTOLOGY**

*Single Session Subject; 6 credit points (14 hrs lectures and 14 hrs tutorials)*
Assessments, and written examination at the end of session.

The major sedimentary facies, their development and characteristics. The analysis of sedimentary assemblages and the synthesis of the results of analysis. Sedimentary structures and their use in the interpretation of palaeoenvironments.

**GEOL910 ADVANCED TOPICS IN GEOLOGY A**

*Double Session Subject; 12 credit points*
Assessment: seminars, essays, written examination.

This subject will have two hours contact per week. Topics will be selected from areas of research in which staff members or visiting staff members are engaged.

**GEOL911 ADVANCED TOPICS IN GEOLOGY B**

*Double Session Subject; 12 credit points*
Assessment: seminars, essays, written examination.

This subject will have two hours contact per week. Topics will be selected from areas of research in which staff members or visiting staff members are engaged.

**GEOL912 ADVANCED TOPICS IN GEOLOGY C**

*Single Session Subject; 6 credit points*
Assessment: seminars, essays, written examination.

This subject will have two hours contact per week. Topics will be selected from areas of research in which staff members or visiting staff members are engaged.

**GEOL913 ADVANCED TOPICS IN GEOLOGY D**

*Single Session Subject; 6 credit points*
Assessment: seminars, essays, written examination.

This subject will have two hours contact per week. Topics will be selected from areas of research in which staff members or visiting staff members are engaged.

**GEOL914 VOLCANOLOGY**

*Single Session Subject; 6 credit points (28 hrs lectures)*
Assessment: Seminars, essays, written examination.
This subject presents an overview of the physical aspects of volcanology for both modern volcanoes and ancient volcanic deposits. In particular, the tectonic setting of volcanoes and the physical properties of magmas are described and their effects on volcanic processes and deposits are examined.

**GEOL915 STRUCTURAL GEOLOGY AND TECTONICS**

*Single Session Subject; 6 credit points (14 hrs lectures and 14 hrs tutorials)*

**Assessment:** Seminars, essays, written examination

This subject treats advanced aspects of structural geology and tectonics. Emphasis is on advanced methods of structural analysis and understanding of rock deformation from the perspectives of stress and strain. The second half of the course concentrates on plate tectonic concepts and their application to modern and ancient rock assemblages.

**GEOL916 ORGANIC GEOCHEMISTRY**

*Single Session Subject; 6 credit points (28 hrs lectures plus practical assignments).*

**Each student will present one seminar**

**Assessment:** by written examination and on the basis of written assignments including seminar presentations.


**REFERENCES**


**GEOL917 ASPECTS OF PETROLEUM GEOLOGY**

*Double Session Subject; 12 credit points (56 hrs lectures plus practical assignments).* Each student will present two seminars.

**Assessment:** by written examination and on the basis of written assignments including seminar presentations.


**REFERENCES**


**GEOL918 ANALYTICAL METHODS IN GEOLOGY**

*Single Session Subject; 6 credit points (28 hrs lectures plus practical work)*

**Assessment:** Seminars, essays, written examination

This subject provides an outline of the theory and practice of modern methods in determinative mineralogy and isotope geology.

Mineral separation and the use of various analytical techniques including AA, XRD, XRF, SEM, microprobe, neutron activation and mass spectrometry are discussed. Applications are stable and unstable isotopes in geochronology and petrogenetic studies are outlined.

**REFERENCES**


GEOL950 PROJECT A

18 credit points

Embodies a laboratory and/or library study on some topical aspect of geology equivalent to four months of full-time study.

GEOL951 PROJECT B

18 credit points

This topic will consist of a field and/or library study on some topical aspect of geology equivalent to four months of full-time study.

GEOL981 COAL IN THE ENERGY PATTERN

6 credit points

Keywords: Coal resources, reserves, demand, assessment, feasibility, Hubbert's pimple, estimation, modelling.

The historical pattern of energy use and the probable changes in the pattern form a basis for understanding the implications of the radical changes which are likely to occur in the medium term. System costs and man-power deployment for the coal industry are very different from those in the oil industry and present difficulties in changing from an oil-based to a coal-based world energy budget. The lower calorific value and relatively high content of impurities in coal, together with the difficulties of handling solids mean that substitution by coal involves increased handling problems.

Resources can only be considered as reserves if the probability of their existence has been established at an acceptable level of certainty and the coal can be extracted economically. With increasing maturity of exploration, reserves increase, but can then decrease if additional "hazards" are discovered. Reserves calculation methods need to be understood in both geological and a commercial context.

The historical patterns of exponential growth in energy use can lead, with a finite resource, to a production pattern which has been described by Hubbert. Modelling techniques are useful in establishing possible future use and production patterns. The fate of past predictions will be examined.

GEOL982 THE CONDITIONS OF PEAT FORMATION

6 credit points

Keywords: Vegetable matter, plant, nutrition, peat accretion, moor ecology, bio-chemical coalification, macerals, microlithotypes, lithotypes, syn-depositional subsidence, seam-splitting, coal-measure lithology.

This subject of the course is designed to convey conceptual parameters of coal formation as a basis for an understanding of exploratory and analytical methods. It begins with a discussion of the influence of vegetable matter, as source material, on peat formation. Emphasis is put on the relationship between plant types and the resulting peat. A consideration of the source material serves also to delineate the stratigraphic range within which coal deposits can be expected to occur. Plant nutritional aspects lead to an appreciation of moor types and various biotopes within the latter. Intimately linked with this aspect is the breakdown of vegetable matter into peat and later coal components, i.e. the development of the organo-petrographic constituents of coal. The concept of coal type (in contrast to coal rank) is discussed in conjunction with an introduction to coal petrographic nomenclature and classification systems. The course is concluded with a discussion of peat and coal as integrated parts of a number of lithofacies models.

GEOL983 COALIFICATION, COAL AND MINERAL ANALYSIS

6 credit points

Keywords: Coal rank and type, rank evaluation parameters, coking potential, liquid/gas yields, inherent, adventitious, syngenetic and epigenetic mineral matter, mineral origins, coal and mineral analytical methods.

The second or physico-chemical stage of coalification leads to major changes in the physical and chemical properties of the macerals. These changes are rank dependent. Methods of assessing rank are related to their use in problem solving.
in geological and fuel technology studies. Rank change may be modelled mathematically and the results of modelling studies used to improve the understanding of basin history.

This subject is designed to cover also the types, compositions, origins and depositional controls of the mineral matter in coal. The concepts of inherent, adventitious, syngenetic and epigenetic mineral matter in coal and its depositional controls will be related to their economic significances. The various analytical methods applied to the analysis and characterisation of organic and inorganic constituents of coal either separately or collectively, and coke, are discussed in relation to their principles of operation and the type, application and value of the analytical data which result.

The analytical methods involved are as follows:

For coal:

Proximate and ultimate analysis, reflectance and fluorescence measurement, apparent density, sizing and washability tests, ash fusion-point determinations (and mineral caused variations), plastometer and dilatometer tests, swelling index determination, Gray King assays, Roga index and coking quality tests and photometry.

For minerals:

Reflected light microscopy, point counting and use of various optical graticules, X-radiography, radio frequency and conventional mineral concentration techniques, thermal analysis (DTA and DTG), X-ray diffraction, X-ray fluorescence, infra-red and atomic absorption spectroscopy, electron microprobe analysis, scanning electron microscopy and staining techniques.

GEOL984 COAL-BASIN SETTING AND ANALYSIS

6 credit points
Keywords: Tectonic setting, plate tectonics, foredeep, intradeep, pericratonic coalfields, intracratonic coalfields, nontectonic coalfields, palaeo-

current analysis, lithofacies maps, structural analysis.

This subject is divided into two parts - conceptual and analytical. In the first part of the geotectonic environment of coal formation is dealt with. Concepts of plate tectonics are stressed by relating coal basins to settings near:

(1) converging plate margins;
(2) diverging plate margins; and
(3) in midplate positions.

In the second part analytical procedures are discussed and applied in the field as well as in the laboratory. Both methods of structural and sedimentary geology are used in order to unravel the history of a coal basin. Case histories are discussed and extensive use is made of the geological environment found in the vicinity of both centres of instruction.

GEOL985 GEOLOGICAL AND GEOPHYSICAL EXPLORATION

6 credit points
Keywords: Field geology, sampling, field geophysics, drilling, logging, downhole logging, quality, feasibility, mine planning, mine exploration.

An outline will be made of regional and detailed mapping and sampling of coal-bearing basins and the structures within such basins. Geophysical techniques used in coal-bearing basins will be described, including such methods as seismic, gravity, magnetic, electrical and thermal methods - advantages and disadvantages of the techniques. A description will be made of various drilling techniques and interpretation of drilling products, and downhole techniques in coal assessment studies. Quality assessment and feasibility studies will be discussed. The role of geological and geophysical exploration results as a guide to the planning of underground and open cut mines and mine layouts will be discussed. A description will be made of the application of some geological and geophysical techniques in monitoring developments during mining.
GEOL986 MINING COAL

6 credit points

Keywords: Mine layout, data collection, analysis, interpretation, stress history, strain analysis, design and planning, rock mechanics, structural analysis, strata control, gas emanations, geological hazards.

The control of sedimentary and structural features on mine planning and layout will be described. A description will be made of the collection, analysis and interpretation of data useful in coal mining. The influence and sedimentation, subsidence, lithification, folding, faulting and igneous intrusions on stress in coal-bearing sequences will be discussed. Types of stress and strain likely to be encountered in a coal-mining program will be described. The measurement of strain in rocks and its analysis and interpretation in coal mining will be described. Discussion of the design and planning of underground coal mine layout and extraction procedures will be complemented by discussion of the design and planning of open cut coal mines. Rock mechanics measurements will be described, as well as other structural studies during coal mining, and the analysis of such data in the control and monitoring of coal-mining development. Recognition of geological hazards will be discussed, as will strata control and mine-gas control.

GEOL987 COAL UTILIZATION

6 credit points

Keywords: Preparation, grindability, washing, liberation, gasification, pyrolysis, solvent extraction, hydrogenation, carbonization, mesophase, coke structure, coke strength, combustion, ash properties.

Coal Preparation. Coal, as mined, typically contains mineral matter which can be removed by washing processes which depend upon specific gravity differences or upon differing flotation behaviour. Grindability is primarily related to coal type and rank, with the tectonic history of the coal having some effects. Liberation at any given size is controlled by the form of the association of the mineral matter and the coal macerals. Liberation can be predicted from a knowledge of the forms of occurrence of the mineral matter.

Reforming of coal into liquid or gaseous fuels presents a means of removing impurities in coal (minerals and sulphur in particular) and at the same time converting it into a state which is more easily handled. The processes of conversion involves a loss in energy which ranges from about 30% to about 70%. Gasification processes are relatively insensitive to the properties of the coal and may be followed by the Fischer-Tropsch synthesis process to make liquid hydro-carbons. Pyrolysis techniques can be modified to increase the yield of liquids but require coals of a restricted range of rank and type. Further they yield a char residue which is difficult to handle and to use. Solvent extraction and hydro-generation both require coals of a restricted range of type and rank, and present problems related to autocatalysis and the poisoning of introduced catalysts.

Coals of suitable rank and type go through a plastic phase, when heated, which allows the development of a coke structure with vesicles and mesophase development. The performance of a coke in a blast furnace is related to physical strength and to chemical reactivity. Blending of coals is used to improve the physical and chemical properties of coke. The concepts of rank and type are of great importance in the design of blends and in the calculation of the effects which are likely to result from a given programme of blending.

Combustion of coal to provide electric power is the fastest growing use for coal. The burning process of coal in a pulverized fuel burner is related to its petrographic composition. The nature and properties of the residual ash are related to the composition and associations of the inorganic constituents of the coal. Boiler fouling affects efficiency and is related to the petrology and chemistry of the coal. The disposal of ash is a major problem, but presents a challenge in terms of the potential use of the ash as a construction material. Sulphur and heavy metal emissions are subject to regulatory controls in many parts of the world.
170 GEOLOGY

GEOL988 ENVIRONMENTAL ASPECTS

6 credit points

Keywords: Pollution, dusts, gas emissions, reclamation, mine subsidence, waste products, environmental impacts, alienation of resources and conflicts of interest.

The relationship of mining operations to communities, downstream pollution problems, mineralogical composition and types of associated dusts, the composition of mine waters and stack emissions, the reclamation of mine sites, the effects of mine subsidence, the composition, uses and disposal of waste residues, environmental impact studies. Alienation of resources and conflicts of interest will be studies within the overall framework of coal mining and utilization.

GEOL989 THESIS

30 credit points

Embodies work on either a field or laboratory project nominally equivalent to two thirds of a year of research.

GEOL999 MAJOR THESIS

48 credit points

Full-time research work on either a field or laboratory project.
PUBLIC HEALTH

INTRODUCTION

The following postgraduate degrees are available:

1. Graduate Diploma in Science (a) (Community Health) (b) (Mental Health)
2. Master of Science (Community Health)
3. Honours Master of Science (Community Health) by Research
4. Doctor of Philosophy

The schedules of subjects available for the degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject HSCH948.

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Masters degree by research and the Doctor of Philosophy degree:

Health promotion
Cardiovascular disease prevention
Mental health
Health services evaluation
Migrant health
Child and family health
Geriatrics and rehabilitation
and other areas relevant to community health

SCHEDULE OF GRADUATE SUBJECTS

GRADUATE DIPLOMA IN SCIENCE (COMMUNITY HEALTH)

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<td>Communication and Education</td>
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<td>HSCH903</td>
<td>Research and Evaluation Methods</td>
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<td>HSCH904</td>
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<td>HSCH905</td>
<td>Social Aspects of Community Health Promotion</td>
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<td>HSCH906</td>
<td>Health Services Organisation and Management</td>
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<tr>
<td>HSCH907</td>
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</table>

Schedule 2

Any subjects listed in the Handbook which are approved by the Heads of Health Sciences and the Department or School which offers the subject. Candidates should consult the Handbook and subject coordinators concerned to ascertain subject prerequisites.

GRADUATE DIPLOMA IN SCIENCE (MENTAL HEALTH)

Schedule 1

| HSCH950    | Comprehensive mental health services         | 6             |
| HSCH951    | Clinical Psychiatry                           | 6             |
| HSCH952    | Interviewing and assessment techniques       | 6             |
| HSCH953    | Methods of intervention and treatment 1      | 6             |
| HSCH954    | Methods of intervention and treatment 2      | 6             |
| HSCH955    | Socio-cultural issues in mental health        | 6             |
| HSCH956    | Supervised clinical practice                  | 6             |
GRADUATE DIPLOMA IN SCIENCE (MENTAL HEALTH) (Cont’d)

Number | Subject | Credit Points
--- | --- | ---
Schedule 2

| HSCH957 | Emotional and behavioural disorders of childhood | 6 |
| HSCH958 | Adolescent mental health | 6 |
| HSCH959 | Adult mental health | 6 |
| HSCH960 | Mental health problems of the aged | 6 |
| HSCH961 | Principles and practice of psychosocial rehabilitation | 6 |
| HSCH962 | Family and community education | 6 |
| HSCH963 | Service planning and evaluation | 6 |
| HSCH964 | Legal and ethical issues | 6 |
| HSCH965 | Special topic in Mental Health | 6 |

MASTER OF SCIENCE (COMMUNITY HEALTH)

Schedule 1 - Core Courses

| HSCH901 | Community Health Services | 6 |
| HSCH902 | Communication and Education | 6 |
| HSCH903 | Research and Evaluation Methods | 6 |
| HSCH904 | Epidemiology I | 6 |
| HSCH905 | Social Aspects of Community Health Promotion | 6 |
| HSCH906 | Health Services Organization and Management | 6 |
| HSCH924 | Major Project | 24 |

Schedule 2 - Elective Courses

| HSCH907 | Special Topic in Community Health | 6 |
| HSCH908 | An Economic Approach to Contemporary Health Issues | 6 |
| HSCH909 | Health Services Planning | 6 |
| HSCH910 | Health Policies and Politics | 6 |
| HSCH911 | Communication in Community Health | 6 |
| HSCH912 | Health Promotion I - The Place of Health Promotion in the Health Care System | 6 |
| HSCH913 | Health Promotion II - A Practical Approach to Program Delivery | 6 |
| HSCH914 | Drug Problems and Issues | 6 |

HONOURS MASTER OF SCIENCE (COMMUNITY HEALTH)

| HSCH936 | Thesis | 36 |
| HSCH948 | Major Thesis | 48 |

COURSE DESCRIPTIONS

1. GRADUATE DIPLOMA IN SCIENCE

(a) Community Health

The Graduate Diploma is intended to cater for a variety of health professionals working in aspects of community health, and offers the opportunity to undertake professional studies in community health.
promotion. The course will provide practitioners with both skills and a conceptual basis for their practice in community health.

Qualification requirements will be as for Graduate Diploma Regulations Paragraphs 5(1), 5(2a), 5(2c) and 5(3) in this Handbook.

All other regulations shall be as for the Graduate Diploma Regulations in this Handbook.

Course Requirements

A candidate shall undertake an approved course recommended by the Head of the School of Health Sciences.

A candidate for the Graduate Diploma in Science (Community Health) shall successfully complete subjects with a total value of 48 credit points, not less than 36 of which shall be chosen from Schedule 1 and the balance from Schedule 2, as set out in the Schedule of Graduate Subjects above.

Assessment: Assessment of coursework will be the responsibility of the subject coordinators or supervisor and the School Assessment Committee. Normal requirements for independent library work and assignments will apply.

(b) Mental Health

The Graduate Diploma in Science (Mental Health) is designed to retrain categories of mental health staff and to provide training for the multidisciplinary group of health professionals who will care for mental health clients in comprehensive area-based settings. It aims to produce graduates with the clinical and professional competence to work within the full range of mental health services.

Qualification requirements will be as for Graduate Diploma Regulations paragraphs 5(1), 5(2a), 5(2c) and 5(3) in this Handbook.

Course Requirements

A candidate will undertake an approved course recommended by the Head of the School of Health Sciences.

A candidate for the Graduate Diploma in Mental Health will successfully complete subjects with a total value of 54 credit points, 42 of which will comprise the core subjects in Schedule 1, and 12 of which will be chosen from subjects listed in Schedule 2, as set out in the Schedule of Graduate Subjects above.

Not all subjects in Schedule 2 will be offered each year. Elective courses will be offered subject to demand and to availability of teachers.

Assessment: Assessment of coursework will be the responsibility of the subject coordinators and the School Assessment Committee. Satisfactory completion of the supervised clinical practice will be determined by the supervisor in consultation with the Coordinator of the program and the Head of the School of Health Sciences.

All other regulations shall be as for the Graduate Diploma Regulations in this Handbook.

2. MASTER OF SCIENCE (COMMUNITY HEALTH)

The Pass Master's degree is intended to cater for a variety of health professionals working in aspects of community health, and offers the opportunity to undertake foundation studies in community health and to specialize in a clinical or topic area relevant to the practice of community health.

The Master of Science (Community Health) program aims to provide training for individuals working in community health. It is anticipated that graduates of nursing, medicine, physiotherapy, health education and other health professions will be interested in pursuing the course.

Because of the multidisciplinary nature of Community Health and the variation in type and duration of professional training in the health professions it is considered desirable to prescribe a variety of entry requirements.

In all cases a minimum of two years experience in some aspects of Community Health is required in addition to other qualifications for entry.
Normal entry requirements would be:

(a) a three year undergraduate degree from the University of Wollongong or other approved tertiary institution,

or

(b) a recognised health professional qualification of at least four years duration from an approved tertiary institution (for example Diploma in Physiotherapy).

In appropriate circumstances, an applicant who does not qualify for registration under (i) or (ii) above may be permitted to register provided that the applicant submits evidence of such tertiary academic and professional attainments as may be approved.

Time Limits

A candidate registered as a full-time candidate may not, without approval, continue to be registered for more than six consecutive sessions from the date of original registration.

A candidate registered as a part-time candidate may not, without approval, continue to be registered for more than twelve consecutive sessions from the date of original registration.

Course Requirements

A candidate for the degree of Master of Science (Community Health) shall undertake a 72 credit point program comprising core courses (36 credit points - Schedule 1), electives (12 credit points at 300 or 400 or graduate level) and a major project, the topic of which shall be approved by the Academic Committee of the School of Health Sciences (24 credit points.)

In special circumstances a candidate may undertake electives in lieu of up to 2 core courses where the candidate can show that he or she has already undertaken equivalent coursework as part of another program of study.

The elective program will be prescribed in each case depending upon the specialization chosen. It is anticipated that electives will comprise coursework which may be taken within the School of Health Sciences (Schedule 2 subjects) as well as within other Departments and Schools of the University of Wollongong or other accredited institutions.

In special circumstances candidates may contract to undertake an independent study for a defined number of credit points up to six in lieu of an elective course. This situation is most likely to arise in a clinical specialization where numbers of candidates wishing to study in the area are insufficient to justify a formal course. In such cases the candidate, in conjunction with a supervisor in the field, will present a proposal incorporating objectives and methods of criteria for assessment of the independent study. This proposal must be approved by the Academic Committee of the School of Health Sciences.

3. HONOURS MASTER OF SCIENCE (COMMUNITY HEALTH)

The Honours degree allows candidates who possess qualifications in a specialist field of Community Health to undertake a program of research in Community Health.

Course Requirements

Potential candidates will discuss their area of interest with the co-ordinator of the program and present a research project title and general outline. If a suitable supervisor is available the candidate will undertake an approved course recommended by the Head of the School 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 Regulations.

SUBJECT DESCRIPTIONS

HSCH901 COMMUNITY HEALTH SERVICES

6 credit points; 2 hours; Session 1

Students will undertake visits to relevant community health services and will study the functions of those services for discussion in class seminars. The
fieldwork will provide the contextual material against which an organizing framework for the core courses will be developed. The course will also raise for discussion health services systems and analysis of health policy.

Course Co-ordinator: Assoc. Prof. Pat Mowbray, Director of Community Health, I.A.H.S.

Textbook

HSCH902 COMMUNICATION AND EDUCATION

6 credit points; 2 hours; Session 1

This course will examine the principles of communication in large and small groups. It will encompass principles of adult education, program planning and effective communication at all levels. Particular attention will be paid to facilitation of discussion groups and to overcoming barriers to communication created by different educational, ethnic and social backgrounds.

Course Co-ordinator: Assoc. Prof. Christine Ewan.

Textbooks:
M. Knowles, The Adult Learner: A Neglected Species, Gulf, 1984
M. Tigh, Adult Learning and Education, Croom Helm, 1983.

HSCH903 RESEARCH AND EVALUATION METHODS

6 credit points; 2 hours; Session 1

This course will be an introduction to the variety of research and evaluation methods which are relevant to community health. Students will be required to develop a research proposal as part of the course requirement. Emphasis will also be placed on criticising research and students' proposals will be discussed by the class.

Course Co-ordinator: Mr Abdul Monaem, Lecturer.

HSCH904 EPIDEMIOLOGY I

6 credit points; 2 hours; Session 2

This course will emphasise basic principles and uses of epidemiology. Simple methods and statistics will be covered to the extent that they are required to understand epidemiological research reports. A specialization in Epidemiology will be available for those who wish to pursue the topic in greater depth.

Course Co-ordinator: Professor Dennis Calvert

Textbooks
To be advised.

HSCH905 SOCIAL ASPECTS OF COMMUNITY HEALTH PROMOTION

6 credit points; 2 hours; Session 2

This course will cover theories and research in the social and behavioural sciences as they relate to health. This background will be examined in relation to its implications for community health and health promotion. Health care of individuals will be compared and contrasted to health care of communities and the strategies for both discussed. Community development and mobilization will be examined from social anthropological and psychological perspectives.

Course Co-ordinator: Assoc. Prof. Christine Ewan

Textbook
No set text. References will be provided.

HSCH906 HEALTH SERVICES ORGANIZATION AND MANAGEMENT

6 credit points; 2 hours; Session 2

This course will introduce basic concepts in administration and management relevant to community health. It will aim to
promote understanding of basic principles of organizational structure and function, organizational communication and organizational behaviour. Aspects of health systems which create organizational problems will be raised and approaches to these problems discussed. A specialization in Health Administration will be available.

Course Co-ordinator: Mr M. Breust, Policy and Planning, I.A.H.S.

Textbooks
I. Beringer, Group Management: The Australian Public Sector, Hale & Iremonger, 1986.

HSCH907 SPECIAL TOPIC IN COMMUNITY HEALTH

6 credit points

The candidates, in conjunction with a supervisor appointed by the Head of the School of Health Sciences, 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 must be approved by a committee of the School of Health Sciences responsible for academic oversight of programs in Community Health.

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 their supervisors at least once a week and to conduct independent library research as well as directed readings, assignments and assessments.

Textbooks
Nil prescribed.

HSCH908 AN ECONOMIC APPROACH TO CONTEMPORARY HEALTH ISSUES

First Session; 6 credit points (2 hours seminar per week)

Assessment: One major assignment and two reviews of journal articles. Passes in all components are required for satisfactory completion of the course.

It is intended that this course is to introduce students to certain economic concepts and methods of analysis through study of a range of contemporary health issues and to be familiar with economic approach to investment and return of health monies. Major topics include resource allocation, cost-effectiveness and cost-benefit analysis, hospital cost and services, economics of health promotion, rationalisation of health service delivery, equity and efficiency in health services and high-tech medical investments and quality of care.

Course Co-ordinator: Mr A. Monaem, Lecturer.

Textbooks
Nil. Appropriate journal articles as required reading.

HSCH909 HEALTH SERVICES PLANNING

First Session; 6 credit points (2 hours seminar per week)

Assessment: Satisfactory completion of 2 assignments. Assignment I (2500 words) focuses on the process of strategic planning for health services. Assignment II (2500 words) focuses on micro-planning in health services.

Practical and theoretical requirements for carrying out health services planning in the community health area. Topics to be covered: Planning - its scope and theory. Planning approaches and methods. Stages of the planning process. Relation of planning and policy. Political aspects of planning.

Course Co-ordinator: Mr M. Breust, Senior Lecturer.

Textbooks
HSCH910 HEALTH POLICIES AND POLITICS

Second Session; 6 credit points (2 hours seminar per week)

Assessment: Satisfactory completion of 2 assignments and individual seminar presentation. Assignment I (3500 words) requires analysis of a significant health policy. Assignment II (2000 words) compares approaches to policy implementation in health service delivery.

Practical and theoretical aspects of health policy formulation, development and termination with an emphasis on the part that the formal and informal political process in society plays in this.

Topics to be covered: What is health and policy: models and process? Health policy making at micro and macro levels. The political process in health policy making. Changing health policy.

Course Co-ordinator: Mr M. Breust, Senior Lecturer.

Textbooks
R. Alford, Health Care Politics, University of Chicago Press, 1975
C. Ham, Health Policy in Britain, MacMillan, London, 1982
M. Lipsky, Street Level Bureaucracy, Sage, N.Y., 1980.

HSCH911 COMMUNICATION IN COMMUNITY HEALTH

Summer session; 6 credit points (5 full days and one 2 hour seminar)

Assessment: Satisfactory completion of individual assignments involving both skill acquisition and analysis of group dynamics. Review of literature on a specific aspect of group process or management. Participation in experiential group exercises will be necessary for satisfactory completion of the course.

HEALTH SCIENCE - PUBLIC HEALTH

The subject deals with skills necessary for effective communication: small group facilitation, health promotion and community participation and development. It uses the small group task development (educational) process, NOT the therapeutic group process to improve and develop these skills. Group process will be organised around a particular health problem. Topics to be covered: Listening skills. Teaching and learning in groups. Experiential learning. Features of small group process. Conflict resolution. Teamwork.

Course Co-ordinator: Assoc. Prof. Pat Mowbray.

Textbooks
C. Rogers, Freedom to Learn, Merrill, 1969.

Minimum number for enrolment - 8.

HSCH912 HEALTH PROMOTION I - THE PLACE OF HEALTH PROMOTION IN THE HEALTH CARE SYSTEM

First Session; 6 credit points (2 hours seminar per week)

Assessment: Seminar presentation and discussion and satisfactory completion of weekly assignments related to seminar readings. A 3000 word final assignment on the relationship between health promotion and the "new public health". Passes in all components are necessary for satisfactory completion of the course.

Health Promotion, its scope and planning. Defining the parameters of 'Health Promotion' in a health care system.

Topics to be covered: Health Promotion its scope and emphasis. Planning approaches and framework. Community development and needs assessment. Project planning.

Course Co-ordinator: Mr G.J. Robinson, Lecturer and Director, Health Promotion Unit, Illawarra Area Health Service.
HSCH913 HEALTH PROMOTION II - A PRACTICAL APPROACH TO PROGRAM DELIVERY

Second Session; 6 credit points (2 hours seminar per week)

Assessment: Seminar presentation and discussion. Satisfactory completion of a project design in Health Promotion which would be suitable for submission for funding purposes. Passes in all components are necessary for satisfactory completion of the course.

Practical and theoretical components of the delivery of a Health Promotion project.

Topics to be covered: Historical perspectives in Health Promotion. The history of various projects locally and nationally. Relating practical strategies to objectives. Designing a framework for projects. Political processes in Health Promotion.

Course Co-ordinator: Mr G.J. Robinson, Lecturer and Director, Health Promotion Unit, Illawarra Area Health Service.

Textbooks:

HSCH914 DRUG PROBLEMS AND ISSUES

Second Session; 6 credit points (2 hours seminar per week)

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.

Course Co-ordinator: Mr G. Lake, Lecturer, Team Leader, Kembla House, Drug and Alcohol Service, Illawarra Area Health Service.

Textbooks: To be notified.

HSCH924 MAJOR PROJECT

24 credit points

The major project will form the major problem-oriented component of the course. Coursework in core and specialization subjects will provide the major resource for identification, planning, implementation and evaluation of the project component. The major project component will be supervised by a specialist in the chosen field.

HSCH936 THESIS

36 credit points

HSCH948 MAJOR THESIS

48 credit points

HSCH950 COMPREHENSIVE MENTAL HEALTH SERVICES

First Session; 6 credit points (2 hours per week)

Assessment: Assessment methods will be chosen from a variety of methods including review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

The course undertakes a review and history 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 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.

**Course Co-ordinator:** Associate Professor C. Ewan.

**Textbooks**
To be notified.

**HSCH951 CLINICAL PSYCHIATRY**

*First Session; 6 credit points (2 hours per week)*

**Assessment:** Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

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.

**Course Co-ordinator:** Associate Professor C. Ewan.

**Textbooks**
To be notified.

**HSCH952 INTERVIEWING AND ASSESSMENT TECHNIQUES**

*Second Session; 6 credit points (2 hours per week)*

**Assessment:** Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

This subject provides an overview of impersonal communication with emphasis on the nature of the helping relationship and the effect of personal attitudes and values upon this relationship.

Principles and techniques of clinical interviewing and assessment are examined and applied to specific disorders, populations, and situations. Standardised protocol for interviewing, writing up case histories, and conducting mental state examinations are outlined. Also addressed are the specific considerations for interviewing and assessing individuals, families and social networks in crisis situations.

**Course Co-ordinator:** Associate Professor C. Ewan.

**Textbooks**
To be notified.

**HSCH953 METHODS OF INTERVENTION AND TREATMENT**

*First Session; 6 credit points (2 hours per week)*

**Assessment:** Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

Provides an overview of intervention 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.

Course Co-ordinator: Associate Professor C. Ewan.

Textbooks
To be notified.

HSCH954 METHODS OF INTERVENTION AND TREATMENT 2

First Session; 6 credit points (2 hours per week)

Assessment: Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

This subject further examines therapeutic interventions that can be utilised by those working with people with serious psychiatric disorders. Principles and practices of behavioural intervention and individual and family therapy are examined in greater detail. An overview of current principles and practices of rehabilitation places particular emphasis on the formulation, implication and evaluation of individual management plans.

Course Co-ordinator: Associate Professor C. Ewan.

Textbooks
To be notified.

HSCH955 SOCIO-CULTURAL ISSUES IN MENTAL HEALTH

First Session; 6 credit points (2 hours per day)

Assessment: Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

This subject examines the theoretical perspectives and practical problems of mental health in Australian society. It identifies the socio-cultural factors that influence the causation, styles of presentation, precipitation, and perpetuation of mental health problems. Practical issues are examined concerning the mental health of Australian Aboriginals, and migrants of diverse racial, national, religious, and language backgrounds. The role, structure, and dynamics of the family is discussed in relation to causation, expression, treatment options, and outcomes.

Course Co-ordinator: Associate Professor C. Ewan.

Textbooks
To be notified.

HSCH956 SUPERVISED CLINICAL PRACTICE

Over three sessions; 6 credit points

Assessment: 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 clinical supervisor must support this report or alternatively, submit a report to the student's academic advisor.

Students must complete a supervised clinical practicum, preferably within their workplace. Students are to negotiate details in conjunction with their academic advisors 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.

HSCH957 EMOTIONAL AND BEHAVIOURAL DISORDERS OF CHILDHOOD

Session to be advised; 6 credit points (2 hours per week)

Assessment: Assessment methods will be chosen from a variety of methods including literature review, case reports,
seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

The subject provides an overview of normal development, disorders of development, childhood psychopathology, assessment, diagnosis, therapeutic approaches, management and outcomes.

Problems such as child abuse, sexual assault, divorce, adoption and fostering, and residential care are also examined.

Course Co-ordinator: Associate Professor C. Ewan.

Textbooks
To be notified.

HSCH958 ADOLESCENT MENTAL HEALTH

Session to be advised; 6 credit points (2 hours per week)

Assessment: Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given to students at commencement of course.

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.

Course Co-ordinator: Associate Professor C. Ewan.

Textbooks
To be notified.

HSCH959 ADULT MENTAL HEALTH

Session to be advised; 6 credit points (2 hours per week)

Assessment: Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

Provides an overview of adult physical, social, and psychological development. Comprehensively examines adult psychiatric disorders, issues in the assessment, diagnosis and treatment of a variety of disorders. Additional topics include marriage and family breakdown, stress and stress management, drug and alcohol abuse, gambling, problems of adults with psychiatric disorders in the prison system, and the issue of homeless adults with psychiatric disorders.

Course Coordinator: Associate Professor C. Ewan.

Textbooks
To be notified.

HSCH960 MENTAL HEALTH PROBLEMS OF THE AGED

Session to be advised; 6 credit points (2 hours per week)

Assessment: Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

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, psychopharmacology and therapeutic and management approaches. Special topics include death and bereavement, alcohol and drug abuse, legal and ethical issues.
**Course Co-ordinator:** Associate Professor C. Ewan.

**Textbooks**
To be advised.

**PSCH961 PRINCIPLES AND PRACTICES OF PSYCHIATRIC REHABILITATION**

*Session to be advised; 6 credit points (2 hours per week)*

**Assessment:** Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

This subject provides an in-depth examination of current practices in the rehabilitation of people with serious psychiatric disorders. Students will examine and utilise functional assessments; develop individual management plans; design, implement and evaluate living skills programs across a range of functional domains.

**Course Coordinator:** Associate Professor C. Ewan.

**Textbooks**
To be notified.

**HSCH962 FAMILY AND COMMUNITY EDUCATION**

*Session to be advised; 6 credit points (2 hours per week)*

**Assessment:** Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

This subject examines the principles of communication in large and small groups. It encompasses principles of adult education, program planning and evaluation, and effective communication at all levels.

**Course Coordinator:** Associate Professor C. Ewan.

**Textbooks**
To be notified.

**HSCH963 SERVICE PLANNING AND EVALUATION**

*Session to be advised; 6 credit points (2 hours per week)*

**Assessment:** Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed and will be given in detail to students at commencement of course.

This subject provides an introduction to planning mental health services through the use of demographic and client need information. It provides practical information on funding options and submission writing. Focuses on establishing services through the allocation of human and financial resources, development of service philosophies, goals, objectives and policies. Provides a framework for monitoring service through the use of standards and evaluating the service in terms of process and outcome.

**Course Coordinator:** Associate Professor C. Ewan.

**Textbooks**
To be notified.

**HSCH964 LEGAL AND ETHICAL ISSUES**

*Session to be advised; 6 credit points (2 hours per week)*

**Assessment:** Assessment methods will be chosen from a variety of methods including literature review, case reports, seminar presentations, research proposals. Specific assignments will be determined when lecturers are appointed
and will be given in detail to students at commencement of course.

Provides an examination of the design and impact of current legislation such as the Mental Health Act, Anti-discrimination legislation, the Crimes Act (mental disorder/forensic), the Protected Estates Act, Guardianship, Freedom of Information, and Informed Consent. Provides an examination into the human and legal rights of mental health services consumers, and the role of advocacy organisations in promoting and protecting the rights of consumers.

Legal responsibilities of staff and services is also discussed with references to duty of care and the administration of medication in various service settings.

Ethical dilemmas are presented which foster discussion on issues such as confidentiality, objectivity, professional-client relationships, relationships between professionals, and so on.

Course Coordinator: Associate Professor C. Ewan.

Textbooks
To be notified.
HUMAN MOVEMENT

INTRODUCTION

The following postgraduate degrees are available:

1. Honours Master of Arts by Coursework and/or Research
2. Honours Master of Science by Coursework and/or Research
3. Doctor of Philosophy

The schedules of subjects available for the Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject HSHM999 Thesis.

The specific requirements for the Masters degrees and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the Honours Masters degrees by research and the Doctor of Philosophy degree:

- Biomechanical analysis, injury prevention and equipment
- Physiology of sports training and physical fitness
- Exercise performance in hot environments
- Neuro-physiological correlates of motor control and learning
- Psychological analysis of exercise, sports performance and coaching effectiveness
- Organisational factors affecting recreation participation
- Cross-cultural analysis of team interactions
- Exercise as a therapy in the prevention and treatment of injury
- Equipment design for the disabled athlete
- Tissue and blood biochemistry

SCHEDULE OF GRADUATE SUBJECTS

HONOURS 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>HSHM903</td>
<td>Issues and Trends in Leisure and Recreation</td>
<td>8</td>
</tr>
<tr>
<td>HSHM904</td>
<td>Management Principles in Sport and Leisure Services</td>
<td>8</td>
</tr>
<tr>
<td>HSHM999</td>
<td>Major Thesis</td>
<td>48</td>
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HONOURS MASTER OF SCIENCE

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<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tr>
<td>HSHM901</td>
<td>Assessment and Training Procedures for Sports Psychology</td>
<td>8</td>
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<tr>
<td>HSHM902</td>
<td>Advanced Studies in Sports Psychology</td>
<td>8</td>
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<tr>
<td>HSHM905</td>
<td>Exercise in Special Populations A</td>
<td>8</td>
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<td>HSHM906</td>
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<td>HSHM907</td>
<td>Skilled Performance and Information Processing</td>
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<td>HSHM908</td>
<td>Movement Re-Education, An Information Processing</td>
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<td>Perspective of Theory</td>
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<td>HSHM909</td>
<td>Advanced Study in Exercise Physiology</td>
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<td>HSHM910</td>
<td>Biomechanics</td>
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<td>HSHM911</td>
<td>Special Topic in Human Movement Science A</td>
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<td>HSHM912</td>
<td>Special Topic in Human Movement Science B</td>
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<td>HSHM913</td>
<td>Special Topic in Human Movement Science C</td>
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<td>HSHM914</td>
<td>Advanced Studies in the Biophysical Bases of Movement</td>
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<tr>
<td>HSHM915</td>
<td>Sport and Social Problems</td>
<td>8</td>
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<td>HSHM999</td>
<td>Major Thesis</td>
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COURSE DESCRIPTIONS

1. HONOURS MASTER OF ARTS

There is an increasing need in the community for graduates in the field of Human Movement Science with more advanced and extensive knowledge of the discipline than is commonly attained by the undergraduate degree holder. Such a need can be attended to by students undertaking more advanced coursework and an additional research component.

The degree of Honours Master of Arts (MA(Hons)) in Human Movement Science shall be subject to the University regulations 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, specialising in one or more of the following fields:
   - Recreation and Sports Management

2. Students entering the program with a recognised pass degree in Human Movement Science or a related area will be required to complete an approved program of 48 credit points of coursework, together with a thesis embodying the results of and investigation of an approved topic to the value of 48 credit points. Students must consult the Graduate Co-ordinator, Human Movement Science, for approval of their proposed choice of subjects.

3. Students entering the degree program with a recognised honours degree at a standard of Class II, Division 2 or above will be required to complete a thesis embodying the results of an investigation of an approved topic to the value of 48 credit points and/or such courses as deemed necessary by the School of Health Sciences.

2. HONOURS MASTER OF SCIENCE

There is an increasing need in the community for graduates in the field of Human Movement Science with more advanced and extensive knowledge of the discipline than is commonly attained by the undergraduate degree holder. Such a need can be attended to by students undertaking more advanced coursework and an additional research component.

The degree of Honours Master of Science (MSc (Hons)) in Human Movement Science shall be subject to the University regulations 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, specialising in one or more of the following fields:
   - Biomechanics, Exercise Physiology, Exercise Therapy, Sports Medicine, Skill Acquisition and Psychology of Sport.

2. Students entering the program with a recognised pass degree in Human Movement Science or a related area will be required to complete an approved program of 48 credit points of coursework, together with a thesis embodying the results of and investigation of an approved topic to the value of 48 credit points. Students must consult the Graduate Co-ordinator, Human Movement Science, for approval of their proposed choice of subjects.

3. Students entering the degree program with a recognised honours degree at a standard of Class II, Division 2 or above will be required to complete a thesis embodying the results of an investigation of an approved topic to the value of 48 credit points and/or such courses as deemed necessary by the School of Health Sciences.

SUBJECT DESCRIPTIONS

HSHM901: ASSESSMENT AND TRAINING PROCEDURES FOR SPORTS PSYCHOLOGY

Single Session Subject; 8 credit points (52 hrs seminars and field work)
Pre-requisite: A major in Psychology. A minimum of two courses in sport
psychology, or approval by the course co-
ordinator.
Assessment: assignments, seminar present-
ations, major report
This course is concerned with the
application of instruments used in the
practice of sports psychology for
assessing motivation, anxiety, mood
states, cohesion, attributions, attentional
focus and behaviour. In addition, ex-
perience will be given towards
developing psychological skills training
programs for sporting situations. The aim
of the course is to provide a sport
psychologist with the instrumentation to
analyse psychological contributions
towards sports performance. The course
is also designed to give students
supervised professional experience as
part of the graduate requirement for a
speciality in sport psychology in the
Human Movement Science program.

TEXTBOOKS
Martens, R. Sport competition anxiety
test. Champaign, Illinois: Human
Nideffer, R.M. The ethics and practice of
applied sport psychology. Ithace, New York: Mouvement
Other texts and journal articles will be
recommended and/or assigned during the
session.

HSHM902: ADVANCED STUDIES
IN SPORT PSYCHOLOGY
Single session subject; 8 credit points (52 hrs lectures/seminars)
Assessment: seminar presentations, reports, research proposal and
examination.

This course deals with issues such as
ethics and future trends in sport psychology in Australia and
internationally. Seminar discussions will
be held on a number of topics including
how personality may influence sports
performance. Other topics will include
how individual and group motivation is
developed and maintained in addition to
social-psychological aspects of sport
such as aggression, leadership and group
dynamics. Discussion will also centre
upon the role sport and exercise have

TEXTBOOKS
Silva, J.M. and Weinberg, R.S. (eds.)
Psychological foundations of
sport. Champaign, Illinois: Human
Other current literature will be
recommended from an extensive range of
books and journal articles.

HSHM903: ISSUES AND TRENDS
IN LEISURE AND RECREATION
Single session subject; 8 credit points
(lectures, seminars and field experience)
Assessment: seminar presentations,
project and research reports

Students will be required to research a
leisure topic and issue that is of interest
and/or concern to them, produce a
research report and present that report in
a seminar situation. Students will also be
required to prepare written critiques of
other seminar reports.

TEXTBOOKS
None specified - students will draw from an
extensive bibliography of primary and
secondary literature.

HSHM904 MANAGEMENT
PRINCIPLES IN SPORT AND
LEISURE SERVICES
Single or double session; 8 credit points
(lectures, seminars and field experience)
Assessment: Assignments, project and
research reports
Pre-requisite: Undergraduate recreation
and/or permission of lecturer

This course is concerned with the
development of a conceptual framework
for recreation and sport administration. It
provides a study of management theory,
relates management principles to leisure
and sport delivery systems and compares
administrative practices in various
recreational and sporting agencies.

TEXTBOOKS
Huse, E.F., Management (2nd ed.), West

Students will also draw from an extensive bibliography of primary and secondary literature.

**HSHM905 EXERCISE IN SPECIAL POPULATIONS A**

*Single session subject; 8 credit points (52 hrs lectures/seminars/clinical experience)*  
*Assessment:* Two seminar presentations by students, annotated bibliographies and reports

This course deals with the application of exercise, disease, prevention and rehabilitation in various aspects of medicine, injury, sport and leisure time pursuits.

**TEXTBOOKS**

None specified - students will draw from an extensive bibliography of primary and secondary literature.

**HSHM906 EXERCISE IN SPECIAL POPULATIONS B**

*Single session subject: 8 credit points (52 hrs lectures/seminars/clinical experience)*  
*Assessment:* Two seminar presentations by students, annotated bibliographies and reports

Normal responses to physical activity are modified in a number of special populations. This course will examine various disorders or disabilities for which regular physical activity programs have been recommended. These may include ischaemic heart disease, chronic chest disease, and disabilities such as paraplegia, amputations, blindness and other disorders.

**TEXTBOOKS**

None specified - students will draw from an extensive bibliography of primary and secondary literature.

**HSHM907 SKILLED PERFORMANCE AND INFORMATION PROCESSING**

*Single session subject; 8 credit points (52 hrs seminars)*  
*Assessment:* Assignments, reports, and research project

The control of skilled performance may be viewed from an information processing perspective. The demands of information processing, and the intent of such processing changes as the performer changes status from the novice to the expert. The neurological concomitants of the information processing model will be studied through this course. Practical applications of the models developed through exposure to the theoretical constructs will be considered.

**TEXTBOOKS**

None specified - students will draw from an extensive bibliography of primary and secondary literature.

**HSHM908 MOVEMENT RE-EDUCATION, AN INFORMATION PROCESSING PERSPECTIVE OF THERAPY**

*Single session subject; 8 credit points (52 hrs seminars)*  
*Assessment:* Assignments, reports, and research project

Musculo-skeletal or neurological deficits can respond to certain types of therapy. This course outlines ways in which an information processing perspective to movement and movement control can enhance the therapy and quality of life.

**TEXTBOOKS**

None specified - students will draw from an extensive bibliography of primary and secondary literature.

**HSHM909 ADVANCED STUDY IN EXERCISE PHYSIOLOGY**

*Single session subject; 8 credit points (52 hrs seminars)*  
*Assessment:* Major seminar presentation and written report, minor seminar
presentation and written report, laboratory project report.

This course will cover the cardiorespiratory and metabolic adjustments to exercise, and physical training and various environmental influences such as heat, cold, altitude and air pollution. It will involve the students in seminar presentations of the research literature available on selected topics and in group laboratory projects associated with measurement of the physiological responses to various modes of exercise or physical training.

TEXTBOOKS

None specified - students will draw from an extensive bibliography of primary and secondary literature.

HSHM910 BIOMECHANICS

Single or double session; 8 credit points (4 hrs per week on single session basis; lectures, seminars, practical work) 
Assessment: Assignments and laboratory projects, optional examination
Biomechanics is the application of mechanical laws to living structures, specifically to the human locomotor system.

This course emphasises the methods used to quantify the underlying principles of human motion, to determine their relationship to the movement outcome, and to examine the means by which their information can be applied to the health and physical education professions.

TEXTBOOKS


HSHM913 SPECIAL TOPIC IN HUMAN MOVEMENT SCIENCE C

Single or double session subject; 8 credit points (3 hrs/week on a single session basis; tutorials and seminars)

Pre-requisite: Demonstrated expertise in a special area of Human Movement Science as determined by the Graduate Studies Co-ordinator
Assessment: Presentations and/or assignment(s) and/or major paper

The special subject topics in Human Movement Science exist to enable advanced studies to be taken by students who have demonstrated an advanced level of understanding and performance in the area concerned.

HSHM914 ADVANCED STUDIES IN THE BIOPHYSICAL BASES OF MOVEMENT

Single or double session; 8 credit points (3 hrs/week on a single session basis; lectures, tutorials and laboratories)
Assessment: Written examination, project work and assignments

Lecture topics are drawn from anatomy, biomechanics, exercise physiology, exercise therapy and motor behaviour. The material available in any given session will reflect student interest and available staff expertise.

TEXTBOOKS

None specified - students will draw from an extensive bibliography of primary and secondary literature.

HSHM915 SPORT AND SOCIAL PROBLEMS

First or Second session; 8 credit points (2 hours lectures 2 hours seminars).

Assessment: Library research and seminar presentation of a specific topic in sport sociology. Written review of 2 research articles from a (non-sport) journal and description of the relevance and application of that research in the context of sport.
This course examines sport from a sociological perspective. Topics for discussion include the social functions of sport, sport as an expression of social norms and social deviance, sport and the experience of minority groups, sexism and racism reflected in sport, the causes and symbolic significance of player and crowd violence.

TEXTBOOKS

No recommended text. A reading list of appropriate journal articles will be provided.

HSHM999 MAJOR THESIS

Multi-Session subject; 48 credit points
NURSING

INTRODUCTION

The following postgraduate degrees are available:

1. Honours Master of Science by Research
2. Doctor of Philosophy

The schedules of subjects available for the Masters degrees are set out on the follow pages.

For the Doctor of Philosophy degree candidates enrol in the subject HSNS999 Thesis.

CURRENT RESEARCH AREAS

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
Gerontology
Medical/surgical nursing
Special care nursing
Developmental disability
Psychiatric nursing
Health promotion
Cardiovascular disease prevention
Mental health
Health services evaluation
Migrant health
Geriatrics and rehabilitation
and other areas relevant to nursing.

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF SCIENCE

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<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSNS999</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

COURSE DESCRIPTION

1. HONOURS MASTER OF SCIENCE

The Honours Masters by research (and Doctor of Philosophy) degree program provides students with the opportunity to enrol in a research program which is designated a nursing program. Interdisciplinary supervision will be encouraged so that a student may have (for instance) a supervisor who is a nurse and another with expertise in an appropriate associated discipline. The degree shall be subject to the Honours Master of Science degree regulations in this Handbook.

SUBJECT DESCRIPTION

HSHN999 MAJOR THESIS

48 credit points
HISTORY

INTRODUCTION

The following postgraduate degrees are available:

1. Master of Arts
2. Honours Master of Arts by Research
3. Doctor of Philosophy

The schedule of subjects available for the Master degree is set out below.

For the Honours Master of Arts degree and the Doctor of Philosophy degree candidates enrol in the subject HIST973 Major Thesis.

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:

- 19th and 20th Century English social and political History
- French History from 1650
- Russian History from 1825
- Religious History in Australia and Modern Britain
- Industrial, Trade Union and socio-political history of Australia
- Modern South East Asian History

SCHEDULE OF GRADUATE SUBJECTS

MASTER OF ARTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST901</td>
<td>Australian Economic History 1850-1930 (S1)</td>
<td>12</td>
</tr>
<tr>
<td>HIST902</td>
<td>Australian Economic History 1930-1985 (S2)</td>
<td>12</td>
</tr>
<tr>
<td>HIST920</td>
<td>Race Relations in Modern History</td>
<td>12</td>
</tr>
<tr>
<td>HIST921</td>
<td>Malaysian Economic History, 1870-1980</td>
<td>12</td>
</tr>
<tr>
<td>HIST924</td>
<td>Total War in Europe I, 1914-1918</td>
<td>12</td>
</tr>
<tr>
<td>HIST925</td>
<td>Total War in Europe II, 1939-1945</td>
<td>12</td>
</tr>
<tr>
<td>HIST926</td>
<td>The Making of Modern Australian Women</td>
<td>12</td>
</tr>
<tr>
<td>HIST927</td>
<td>Philosophy of History</td>
<td>12</td>
</tr>
<tr>
<td>HIST928</td>
<td>Death, Disaster, and the Millennium</td>
<td>12</td>
</tr>
</tbody>
</table>

HONOURS MASTER OF ARTS

HIST973 Major Thesis 48

COURSE DESCRIPTION

1. MASTER OF ARTS

The Department of History and Politics offers a program of postgraduate level subjects leading to the degree of Master of Arts (History). This program has been devised to meet the needs of students who wish to proceed beyond the three year pass degree but for whom the research component of the honours degree and the scale of the honours Master of Arts degree are inappropriate.

Students entering the program will normally be required to have a pass degree with a major in History (that is, 52 credit points, or equivalent, in a sequence of History courses from 100 to 300 level). In special cases the departmental head may vary the entry requirements, if satisfied that an applicant's qualifications have prepared him or her for advanced historical study.

All those entering the program must complete subjects with a total value of 48
credit points, to be chosen from the schedule of subjects.

All courses will be taught on the basis of one 2 hour seminar per week, with individual tutorial consultation. Subjects on offer will vary from year to year according to the availability of specialist staff.

SUBJECT DESCRIPTIONS

HIST901 AUSTRALIAN ECONOMIC HISTORY, 1850-1930

First session; 12 credit points (one hour lecture; two hours tutorial)
Assessment: 7500 words in essays/tutorial papers

This subject surveys the development of the Australian economy from about the time of the official discovery of gold until the onset of the Great Depression. It pays particular attention to the contribution of the various industries to the domestic product, and the variation in contribution between the sectors; overseas trade and borrowing; the role of the State; immigration and the composition of the workforce; the distribution of wealth and income; compulsory arbitration; the activities of trade unions and employers' associations; and the ideologies of the major political factions and parties.

TEXTBOOK


HIST902 AUSTRALIAN ECONOMIC HISTORY, 1930-1985

Second session; 12 credit points (one hour lecture; two hours tutorial)
Assessment: 7500 words in essays/tutorial papers

This subject applies the themes established in HIST901 to the period between the Great Depression and the present.

TEXTBOOKS


HIST920 RACE RELATIONS IN MODERN HISTORY

First session; 12 credit points (one 2 hr seminar per week)
Assessment: One 1,500 word tutorial paper, two 3,000 word seminar papers

The main object of this course is to illustrate problems involved in the historical analysis of race relations through a range of twentieth century examples. The examples to be studied include European anti-semitism (France of the Third Republic; Nazi Germany); colonial race relations (Papua New Guinea); race relations in a plural society (Malaysia, 1945-1980); institutionalized racism (South Africa, 1948-1980); non-white minorities in white states (Australian Aborigines; immigrants in Britain); approaches to integration (Hawaii, 1898-1980).

PRELIMINARY READING


HIST921 MALAYSIAN ECONOMIC HISTORY, 1870-1980

Second session; 12 credit points (one 2 hr seminar per week)
Assessment: One 1,500 word tutorial paper, two 3,000 word seminar papers

This course will introduce students to the special problems associated with the economic history of an underdeveloped,
colonial, plural society. Topics to be covered include foreign (especially British) capital investment; the role of the Chinese; the Malay subsistence economy; Malay participation in the cash economy; the tin industry; plantation (especially rubber) development; Indian labour; the industrial contribution to colonial revenue; the co-operative movement; the impact of fluctuations in international demand; ethnic imbalances in economic participation and opportunities; the effect of the Emergency; the influence of post-Independence politics on economic policy; the New Economic Policy (particularly massive ethnic-based restructuring); the relationship of economic development to social change.

PRELIMINARY READING


Young, K. *Malaysia, Growth and Equity in a Multi-racial Society.* Baltimore, 1980.

HIST924 TOTAL WAR IN EUROPE I, 1914-1918

*First session; 12 credit points (one 2 hr seminar per week)*

Assessment: Two 2,500 word essays and one 2,500 word seminar paper

This course deals with the diplomatic, military and social ramifications of World War I. Particular emphasis is placed on the origins of the conflict, the diplomatic manoeuvres during the way, the Italian *volte face*, the various military fronts (including France, the East, the Southern fronts, and the way at sea) and the effect of new technology. Detailed attention is devoted to the social, political and economic consequences of the way, for example, the Russian revolution, the remaking of the European frontiers and changed European relationships with the U.S.A.

PRELIMINARY READING


HIST925 TOTAL WAR IN EUROPE II, 1939-1945

*Second session; 12 credit points (one 2 hr seminar per week)*

Assessment: Two 2,500 word essays and one 2,500 word seminar paper

This course is a sequel to HIST924, examining, as it does, the origins, course and effects of the second European civil war of the 20th Century. Special attention is devoted to the military history of the way, the diplomacy associated with the conflict, and its social, economic and political consequences. Problems studied include the diplomatic prelude to 1939, the phoney war of 1939-40, relations between Britain, the United States and the U.S.S.R., the role of propaganda and the controversy surrounding the proposal for a Second Front. In so far as military considerations are concerned, we shall examine *inter alia* the Soviet-German struggle of 1941-45, the Allied bombing of Germany, the way in North Africa and southern Europe, and resistance in Nazi-occupied Europe. Also considered are the communization of Eastern Europe, and the birth of "welfare capitalism".

PRELIMINARY READING


HIST926 THE MAKING OF MODERN AUSTRALIAN WOMEN

First session; 12 credit points (one 2 hr seminar per week)
Assessment: One 1,500 word tutorial paper, two 3,000 word tutorial papers

This course will look at those elements in Australian social history from the 1890s to the present that had particular significance in forming the experiences of present day Australian women. It will cover the demographic transition and migration patterns, economic changes, political changes, ideologies of population and consumerism and the rise of professionals as social managers.

PRELIMINARY READING

HIST927 PHILOSOPHY OF HISTORY

First session; 12 credit points (one 2 hr seminar per week)
Assessment: One 6,000 word essay and one 1,500 word seminar paper

This course 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

HIST928 DEATH, DISASTER, AND THE MILLENNIUM

Second session; 12 credit points (one 2 hr seminar per week)
Assessment: One 1,500 work and one 2,000 word tutorial paper, one 4,000 word essay

This course will review sociological, psychological, and historical studies of death, disaster, and millenarian movements. Popular religious attitudes and attitudes to burial customs will be investigated. Australian attitudes to dying and disaster will be included.

PRELIMINARY READING

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 hours,
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 M.A. Honours shall give at least two, and candidates for doctoral degrees shall give three, work-in-progress seminars over the course of their candidature.
INTRODUCTION
The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Commerce
   (a) Business Information Systems
   (b) Occupational Health and Safety
   (c) Regional Administration
2. Master of Business Administration (Management Information Systems)
3. Honours Master of Commerce by Research
4. Doctor of Philosophy

The schedules of subjects for the Graduate diplomas and Master degrees are set out on the following pages.

For the Honours Master of Commerce degree by research and the Doctor of Philosophy degree, candidates enrol in the subject AICA987 or AIPA999.

The specific requirements for each degree and diploma and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

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:

Business Information Systems
   Computer-based training and testing
   Decision support systems
   4GL and CASE productivity tools
   Human factors in system planning
   Information systems management
   Knowledge-based information systems
   Microcomputer-based business systems
   Office automation
   Systems design and development
   System modelling and simulation

Administration
   Decision making in organisation
   Change in Technology and its acceptance
   Organisational design and organisational behaviour
   Occupational health and safety
   Public administration
   Regional development
   Small business operation and management
   Staff development

SCHEDULE OF GRADUATE SUBJECTS

GRADUATE DIPLOMA IN COMMERCE (BUSINESS INFORMATION SYSTEMS) AND MASTER OF BUSINESS ADMINISTRATION (MANAGEMENT INFORMATION SYSTEMS)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>AICA901</td>
<td>Computer Hardware/Software Systems</td>
<td>6</td>
</tr>
<tr>
<td>AICA902</td>
<td>Structure of Programs and Data</td>
<td>6</td>
</tr>
<tr>
<td>AICA903</td>
<td>Business Data Processing Systems</td>
<td>6</td>
</tr>
<tr>
<td>AICA904</td>
<td>Information Analysis</td>
<td>6</td>
</tr>
<tr>
<td>AICA905</td>
<td>Structured Systems Design</td>
<td>6</td>
</tr>
<tr>
<td>AICA906</td>
<td>Information in Organisations</td>
<td>6</td>
</tr>
<tr>
<td>AICA907</td>
<td>Systems Development Environment</td>
<td>6</td>
</tr>
<tr>
<td>AICA908</td>
<td>Intelligent Tutoring Systems</td>
<td>6</td>
</tr>
<tr>
<td>AICA909</td>
<td>Office Automation</td>
<td>6</td>
</tr>
<tr>
<td>AICA910</td>
<td>Case Studies in Business Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>AICA921</td>
<td>Advanced Data Management</td>
<td>6</td>
</tr>
<tr>
<td>AICA922</td>
<td>Distributed Information Systems</td>
<td>6</td>
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<tr>
<td>AICA923</td>
<td>Information Systems Management</td>
<td>6</td>
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GRADUATE DIPLOMA IN COMMERCE (BUSINESS INFORMATION SYSTEMS) AND MASTER OF BUSINESS ADMINISTRATION (MANAGEMENT INFORMATION SYSTEMS) (Cont'd)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>AICA924</td>
<td>System Modelling and Simulation</td>
<td>6</td>
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<tr>
<td>AICA925</td>
<td>Knowledge-Based Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>AICA926</td>
<td>Decision Support Systems</td>
<td>6</td>
</tr>
<tr>
<td>AICA940</td>
<td>Management Information Systems Project</td>
<td>18</td>
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</tbody>
</table>

GRADUATE DIPLOMA IN COMMERCE (OCCUPATIONAL HEALTH AND SAFETY)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>Occupational Health and Safety Law</td>
<td>6</td>
</tr>
<tr>
<td>Quantitative Methods</td>
<td>6</td>
</tr>
<tr>
<td>Cultural Studies</td>
<td>6</td>
</tr>
<tr>
<td>Environmental and Occupational Health</td>
<td>6</td>
</tr>
<tr>
<td>Communication</td>
<td>6</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>6</td>
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<tr>
<td>Rehabilitation</td>
<td>6</td>
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<tr>
<td>Occupational Hazards I</td>
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<td>Occupational Hazards II</td>
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GRADUATE DIPLOMA IN COMMERCE (REGIONAL ADMINISTRATION)

Core Subjects

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Foundations of Australian Government Administration</td>
<td>6</td>
</tr>
<tr>
<td>Organisational Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>Public Policy and Regional Administration</td>
<td>6</td>
</tr>
<tr>
<td>Interorganisational Relations</td>
<td>6</td>
</tr>
<tr>
<td>Project in Regional Administration</td>
<td>6</td>
</tr>
</tbody>
</table>

Elective Subjects

<table>
<thead>
<tr>
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<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>Studies in Administrative Law</td>
<td>6</td>
</tr>
<tr>
<td>Studies in Government Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Urban and Regional Economics</td>
<td>6</td>
</tr>
<tr>
<td>Sociology of Australian Power Relations</td>
<td>6</td>
</tr>
<tr>
<td>Technology and Administration</td>
<td>6</td>
</tr>
<tr>
<td>Human Resource Administration</td>
<td>6</td>
</tr>
<tr>
<td>Administrative Decision-Making</td>
<td>6</td>
</tr>
<tr>
<td>Trade Unions, Employers and Government</td>
<td>6</td>
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</table>

HONOURS MASTER OF COMMERCE (BUSINESS INFORMATION SYSTEMS)

<table>
<thead>
<tr>
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198 INDUSTRIAL AND ADMINISTRATIVE STUDIES

COURSE DESCRIPTIONS

1. GRADUATE DIPLOMA IN COMMERCE
(a) Business Information Systems

This course, offered by the School of Industrial and Administrative Studies, aims to provide graduates from a recognised tertiary course, a program of studies which will enable them to function as an information systems professional in a variety of capacities within an organisation or business concern. The course curriculum is designed to provide a program of study that allows for considerable flexibility in the choice of related subjects that will be suitable to a variety of degree/diploma graduates who have a wide range of backgrounds.

Specific Admission Requirements for the Diploma:

(1) In accordance with the general regulations governing graduate diplomas, candidates for the Graduate Diploma in Commerce (Business Information Systems) must have been admitted to the degree of Bachelor in the University or another approved institution.

(2) Furthermore, the applicant will be expected to have a suitable computing background. By a 'suitable computing background', it is meant that the applicant has successfully completed at least the equivalent of one introductory computing subject at first-year tertiary level.

(3) Notwithstanding the above conditions, a candidate who has not previously attained a proficiency in computer programme at a level acceptable to the School will be required to do a 'bridging' course in introductory computing subject at first-year level.

Course Duration

Currently the course is available by part-time study over four sessions (two years), in which each student takes 2 subjects in any session, or by full-time study over two sessions.

The Course Structure

The Graduate Diploma in Commerce (Business Information Systems) is a coherent program of study which involves the successful completion of 8 subjects (48 credit points). The 8 subjects are divided into two components: a compulsory component consisting of 6 subjects and an optional component consisting of 2 subjects, chosen in the following manner subject to the prerequisites specified in the subject list below.

(a) The 6 subjects in the compulsory component are:

FOUR subjects, one from each of the following four groups A, C, D and E (see subject list below).

TWO subjects from Group B.

(b) The 2 subjects in the optional component may be chosen from the remaining subject options listed below from one or more Groups, A, B, C or D.

(c) No advanced standing will be granted. Students are required to substitute an alternative subject or subjects for any compulsory subject(s) substantially covered in previous degree or diploma studies.

(d) Subject to the approval of the Head of the School of Administrative Studies, up to two subjects (12 credit points) may be included for recognition in this award chosen from other appropriate graduate subjects offered by this University.

List of Subjects

Subject to staff and resources limitations, some graduate subjects may not be available in a given year. Contact the School of Industrial and Administrative Studies for details.

Group A: Information Technology Studies
AICA901 Computer Hardware/Software Systems
AICA902 Structure of Programs and Data
AICA921 Advanced Data Management
and healthy work environments and work activities, the prevention or minimisation of hazards (physical, chemical and psycho-social), the optimisation of rehabilitation, and the effective intervention and participation in management planning; with which a good safety manager should be familiar.

Subjects

Organisational Behaviour
Environmental and Occupational Health*
Occupational Hazards I*
Communication*
Rehabilitation
Occupational Health and Safety Law*
Quantitative Methods*
Cultural Studies
Occupational Hazards II

Students will need to study 8 of the above subjects and MUST study the subjects marked with an *.

(c) Regional Administration

This is a two year part-time course offered by the School of Industrial and Administrative Studies. The overall aim of the course is to provide graduates with:

1. knowledge of the basic areas of organisational administration;
2. understanding of problems and requirements of regional administration;
3. behavioural skills and knowledge relevant to regional administrative roles; and
4. opportunities to concentrate their studies in selected fields.

This course is comprised of five core subjects and three elective subjects chosen to pursue either a specialised strand of study or non-specialised elective study according to individual needs and interests.

Core Subjects

Foundations of Australian Government Administration
Organisational Behaviour
Public Policy and Regional Administration
Inter-Organisational Relations
Project in Regional Administration

Elective Subjects

Specialisation through choice of related elective subjects is possible in the areas of:

Health Administration by taking Technology and Administration from the list of electives and two approved subjects from the Graduate Diploma in Occupational Health and Safety offered in the School.

Technology and Administration by taking Technology and Administration from the list of electives and two approved subjects in the Graduate Diploma in Business Information Systems offered in the School.

Human Resource Administration by taking Human Resource Administration from the list of electives plus two approved subjects from the Graduate Diploma in Educational Administration offered in the School or two approved subjects offered by the Department of Management. Other sequences of specialisation are possible.

A non-specified pattern of electives allows for study of approved subjects at Graduate Diploma level within the Faculty of Commerce or other Academic Units within the University.

The Graduate Diploma requires successful completion of eight subjects.

YEAR 1 - Session 1

Foundations of Australian Government Administration

Organisational Behaviour

YEAR 1 - Session 2

Public Policy and Regional Administration

Elective/Specialisation

YEAR 2 - Session 1

Inter-organisational Relations

Choice of one of: Technology and Administration or Human Resource Administration or approved elective

YEAR 2 - Session 2

Project in Regional Administration

Elective/Specialisation

2. MASTER OF BUSINESS ADMINISTRATION (MANAGEMENT INFORMATION SYSTEMS)

Details of course requirements are listed under the Department of Management entry in this Handbook.

Description of Subjects

Only 900-level AICA subjects are listed below. For descriptions of graduate subjects offered by the Departments of Accountancy and Legal Studies, Computing Science, Economics and Management, see listings under the respective departments. For descriptions of undergraduate subjects (eg. 300-level subjects), see the Undergraduate Handbook, Volume II.

3. 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 Accountancy, the Department of Economics, the School
of Industrial and Administrative Studies, 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, Industrial and Administrative Studies, 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.

4. Candidates required to undertake a preliminary program or required to complete designated subjects at an appropriate standard in accordance with Clause 5(3) of the Honours Masters Degree Regulations may have their enrolment cancelled in the event that the preliminary program or designated subjects is not completed at the appropriate standard.

SUBJECT DESCRIPTIONS

AIAE901/AIAE911
INTRODUCTION TO STAFF DEVELOPMENT

First session; 8 credit points (901) or 6 credit points (911)

This subject introduces the range of current issues in staff development, leading to an overview of the problems of construction, management, implementation and evaluation of staff development programs. Specific issues covered will be: relevant theories of and approaches to staff development; organisational vs individual bases for staff development; motivation or incentive based theories; specific strategies of approaches to staff development including organisational structures, incentives and rewards which increase professional commitment in employees.

RECOMMENDED READING


AIAE902/AIAE912
IMPLEMENTATION OF STAFF DEVELOPMENT

Second session; 8 credit points (902) or 6 credit points (912)
This subject covers the issues of implementation, evaluation and validation of staff development programs by a study of topics including: education versus training; adult learning theories; construction of appropriate learning strategies for adults; training systems in business or military organisations; evaluation and validation strategies for staff development.

RECOMMENDED READING


AIAE903/AIAE913 SPECIAL ISSUES IN STAFF DEVELOPMENT

First session; 8 credit points (903) or 6 credit points (913)
Pre-requisite: AIAE901/911 and AIAE902/912

This subject offers a specialized study of the theoretical bases of selected issue(s) of staff development. Students will undertake intensive reading and discussion on selected topics such as: the needs of specialist groups in staff development e.g. beginning staff, middle level or senior level executives. Particular emphasis will be given to the needs of the particular target group for specialized staff development where appropriate.

RECOMMENDED READING


AIAE904/AIAE914 STRESS AND THE ADMINISTRATOR

First session; 8 credit points (904) or 6 credit points (914)

This subject examines the ever-increasing problem of stress and its impact on members of organisations particularly those holding executive positions. Aspects of this subject will be: stress and its consequences; factors inducing stress; life-style; job satisfaction and psychosomatic illness, coping with stress; stress management.

RECOMMENDED READING


AIAE905/AIAE915 THE ADMINISTRATION OF ORGANISATIONAL CHANGE

Second session; 8 credit points (905) or 6 credit points (915)

This subject examines the process of change within an organisation. Issues under discussion will be: change models; characteristics of innovators; acceptance/ resistance of change; factors of change; reasons for change; planning and monitoring change; sustaining change.

RECOMMENDED READING


AIAE906 PROJECT IN EDUCATIONAL ADMINISTRATION

First or second session; 8 credit points

This subject enables the study of an approved topic in educational education, after negotiation with appropriate staff. Students will be required to undertake a significant project culminating in the submission of a substantive report written to an acceptable standard.
RECOMMENDED READING


TEXTBOOKS


AICA901 COMPUTER HARDWARE/SOFTWARE SYSTEMS

First session; 6 credit points (3 hrs lecture/tutorial per week)
Assessment: Examination and assignments

This subject studies the principles of operations, and the functional components of a modern computer system. It aims to provide a systematic framework to examine: the interrelation between hardware and software; and the current trends in information processing technology. Topics include: data representation; the Central Processing Unit; input/output units; storage devices; computer architecture; operating systems; memory management; time-sharing; communication with peripherals; and systems routines.

TEXTBOOK


AICA902 STRUCTURE OR PROGRAMS AND DATA

First session; 6 credit points (3 hrs lecture/tutorial per week)
Assessment: Examination and assignments

This subject examines the principle of structured programming and data structures in algorithm design and program coding. Practical programming is done in a structured language such as Pascal. Topics covered include: modularization; recursion; string processing; sequential and linked storage allocation; linear lists; stacks; queues; arrays; linked lists; hashing; trees; and multi-linked structures.

AICA903 BUSINESS DATA PROCESSING SYSTEMS

Second session; 6 credit points (3 hrs lecture/tutorial per week)
Assessment: Assignments, case studies and tutorial exercises

An analysis of the structures of computer-based business information systems including Payroll, Accounts Receivable, Accounts Payable, General Ledger, Inventory and Order Entry. The integration of discrete applications into the total information system. The organisational implications of such integration and automation. The use of commonly-used productivity tools such as spreadsheets, data-base management systems, and integrated software to solve business data processing problems.

TEXTBOOK


AICA904 INFORMATION ANALYSIS

First session; 6 credit points (3 hrs lecture/tutorial per week)
Assessment: examination, assignments and case studies

This is a study of the techniques and methodologies of structured systems analysis in a business environment. It aims to develop a firm grounding in Information Processing procedures to support administrative and/or business operations in organisations. Topics include: system development life cycle; development methodologies; problem identification; feasibility assessment; behaviour in the development process; tools of analysis; requirement analysis; data flows; data dictionaries; and files and logic specification.
AICA905 STRUCTURED SYSTEMS DESIGN

First session; 6 credit points (3 hrs lecture/tutorial per week)
Assessment: Assignments and projects

This is an introduction to the methodologies of structured systems design, with the intention that a student should be able to work from the organisation's requirements to develop a fully designed business system. The subject uses the techniques introduced in AICA904 Information Analysis to develop a coherent plan such that the business requirements of an organisation can be fulfilled.

TEXTBOOK

AICA906 INFORMATION IN ORGANISATIONS

First session; 6 credit points (3 hrs lecture/tutorial per week)
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 flows; 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.

TEXTBOOK
Ahituv, N. and Neumann, S. Principles of Information Systems for


AICA907 SYSTEMS DEVELOPMENT ENVIRONMENT

First session; 6 credit points (3 hrs per week)
Assessment: Seminar papers and project

This subject examines the principles of software engineering, the developmental techniques, the automated tools and support environments that are used to improve the productivity of the software development cycle. The four environments considered are: language-centred, structure-centred, tool-based, and method-based. A range of productivity aids are considered including program generators, DBMS, 4GL and prototyping tools, CASE and 5th generation tools, with an in-depth study in at least one of these tools.

TEXTBOOK

AICA908 INTELLIGENT TUTORING SYSTEMS

Second session; 6 credit points (3 hrs lecture/tutorial per week)
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.

TEXTBOOK
AICA909 OFFICE AUTOMATION

Second session; 6 credit points (3 hrs lecture/seminar per week)
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; 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.

PRELIMINARY READINGS


AICA910 CASE STUDIES IN BUSINESS INFORMATION SYSTEMS

Second session; 6 credit points (3 hrs lecture/seminar per week)
Pre-requisites: 24 credit points in this diploma
Co-requisite: AICA923
Assessment: Written and seminar presentation of a project report on a series of case studies presented by the lecturer

In this subject, the student will take part in a series of guided case studies which will examine the processes of specifying, designing, costing, selecting, implementing, managing and evaluating an information system in a business setting. Particular emphasis will be given to the integration of theoretical and practical concepts introduced in the course in arriving at an effective solution, and the need to provide overall management in all phases of the design and implementation of the system.

AICA921 ADVANCED DATA MANAGEMENT

First session: 6 credit points (3 hours per week)
Assessment: Case studies and examination

This subject aims to provide the student an in-depth knowledge of the technical concepts, practical experience and management issues of data storage and database design in computer information systems. Topics include: file organisation, record retrieval, CODASYL, physical and logical structures, relational theory, data languages in particular SQL, survey and evaluation of DBMSs, data integrity and security, database administration.

TEXTBOOK

To be advised.

AICA922 DISTRIBUTED INFORMATION SYSTEMS

Second session: 6 credit points (3 hours per week)
Assessment: Assignments and examination

This subject aims to familiarise the student with the concepts and terminology of data communication, network, and the regulatory, implementation and management issues of distributed information systems. Topics covered include network architectures, protocols (X.25, ISO etc), packet switching, LAN, ISDN, CCITT recommendations, network management, reliability and performance consideration, regulatory and policy issues, integrity, control and economics in distributed environments.

TEXTBOOK

To be advised.

AICA923 INFORMATION SYSTEMS MANAGEMENT

Second session: 6 credit points (3 hours per week)
Assessment: Assignments, seminars and examination
This subject examines the many management issues, at the planning, administrative and policy levels, in matching the information system to the overall information needs of an organisation. It considers the role of senior management in information systems administration. Issues considered include structures of the information system, the planning process and planning strategies, implementation and maintenance, project management and control, user participation, training and recruitment, systems performance and evaluations, EDP audit, security and privacy, socio-technical issues, etc.

**TEXTBOOK**


**AICA924 SYSTEMS MODELLING & SIMULATION**

*Second session: 6 credit points (2 hours per week)*

**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.

**TEXTBOOK**


**AICA925 KNOWLEDGE-BASED INFORMATION SYSTEMS**

*Second session: 6 credit points (3 hours per week)*

**Assessment:** Assignments and project

This subject examines the methods and techniques in developing business expert systems. Topics covered include knowledge acquisition and representation methods, knowledge engineering, rules and reasoning, dealing with uncertainties, inference mechanisms, building a knowledge-based information system, developing a rule set, using certainty factor algebras and manipulating fuzzy variables. The subject also considers the evaluation and selection of expert systems development tools and techniques.

**TEXTBOOK**


**AICA926 DECISION SUPPORT SYSTEMS**

*First session: 6 credit points (3 hours per week)*

**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.

**TEXTBOOKS**


**AICA940 MANAGEMENT INFORMATION SYSTEMS PROJECT**

18 credit points

**Assessment:** Seminar presentation and written report

Students will be expected to carry out a substantive project in management information systems, under the supervision of a member of staff, culminating in a seminar presentation and a written report.
AICA981 ADVANCED INFORMATION SYSTEMS TOPIC A
6 credit points

AICA982 ADVANCED INFORMATION SYSTEMS TOPIC B
6 credit points

AICA983 ADVANCED INFORMATION SYSTEMS TOPIC C
12 credit points

AICA984 ADVANCED INFORMATION SYSTEMS TOPIC D
12 credit points

Master of Commerce Honours qualifying subjects consisting of a programme of course work and reading as prescribed by the Head of the School of Industrial and Administrative Studies.

AICA986 RESEARCH REPORT
24 credit points

AICA987 THESIS
48 credit points

Approved programme of study agreed with the Head of the School of Industrial and Administrative Studies.

AIIH901 ORGANISATIONAL BEHAVIOUR
6 credit points (3 hrs/week lecture/tutorial)
Assessment: assignments, tutorials, examinations

This subject will introduce the behaviour of individuals and groups in organisations by providing an analysis of organisational behaviour and styles.

Not to count with AICA901 or MGMT911 Organisational Behaviour.

AIIH902 OCCUPATIONAL HEALTH AND SAFETY LAW
6 credit points (3 hrs per week lecture/seminar)
Assessment: assignments, tutorials, examinations

This subject deals with the interpretation and application of the N.S.W. O.H.S. Act.

AIIH903 QUANTITATIVE METHODS
Second session; 6 credit points (3 hrs per week lecture/seminar)
Assessment: assignments, tutorials, examinations

This subject introduces the quantitative techniques used to compile interpret and analyze data connected with the issues of occupational health and accident reporting. 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.

AIIH904 CULTURAL STUDIES
6 credit points (3 hrs per week lecture/seminar)
Assessment: assignments, tutorials, examinations

This subject analyzes the different linguistic backgrounds and cultural value systems of ethnic workers, with a particular emphasis on the characteristics of the Illawarra region. It aims at extending awareness of the difficulties faced by minority ethnic groups in the wider community, in the work place, and in issues of safety.

AIIH905 ENVIRONMENTAL AND OCCUPATIONAL HEALTH
6 credit points (3 hrs per week lecture/seminar plus two days industrial visits)
Assessment: assignments, tutorials, examinations

This subject enables an analysis of the broad range of health problems confronting the community and the workforce, by covering issues such as
factors which influence the health of a community; factors in lifestyles that affect individual and organisational well being; particular emphasis is given to the promotion of health programs in occupational settings.

AIIH906 COMMUNICATION

6 credit points (3 hrs per week lecture/seminar)
Assessment: assignments, tutorials, examinations

This subject enables a study of effective communication techniques, with a view to optimising students' intervention on health and safety issues.

AIIH911 ERGONOMICS

6 credit points (3 hrs per week lecture/seminar)
Assessment: assignments, tutorials, examinations

This subject will analyze the relationship between the nature of work and the workplace environment: the design of work stations and of jobs; and the capacities and limitations of the human being.

AIIH912 REHABILITATION

6 credit points (3 hrs per week lecture/seminar; two days visits)

This subject acquaints students with methods and resources available for optimising the rehabilitation of workers affected by an industrial accident or disease.

AIIH915 OCCUPATIONAL HAZARDS I

6 credit points (3 hrs per week lecture/seminar plus two days industrial visits)
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.

AIIH916 OCCUPATIONAL HAZARDS II

6 credit points (3 hrs per week 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.

A typical sequence of study would be:

Year 1 Session 1:
- AIIH911 Ergonomics
- AIIH902 Occupational Health and Safety Law

Session 2:
- AIIH905 Environmental and Occupational Health
- AIIH903 Quantitative Methods

Year 2 Session 1:
- AIIH915 Occupational Hazards I and
- AIIH912 Rehabilitation OR
- AIIH901 Organisational Behaviour

Session 2:
- AIIH906 Communication and
- AIIH916 Occupational Hazards II OR
- AIIH904 Cultural Studies

AIPA901 FOUNDATIONS OF AUSTRALIAN GOVERNMENT ADMINISTRATION

6 credit points (3 hours per week 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 administration including the Westminster parliamentary system and features of Australian Government administration such as federation and statutory authorities. An introduction to regional government
administration, including an overview of its development in Australia and the political and administrative issues raised.

AIPA902 PUBLIC POLICY AND REGIONAL ADMINISTRATION
6 credit points (3 hours per week lectures/seminars)
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 issues in regional public policy formulation, and the role and problems of regional administration.

AIPA903 INTERORGANISATIONAL RELATIONS
6 credit points (3 hours per week lectures/seminars)
Assessment: Assignments, tutorials, 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 planning and action within regions, including processes and problems of developing such bases.

AIPA904 TECHNOLOGY AND ADMINISTRATION
6 credit points (3 hours per week)
Assessment: Assignments, tutorials, examination
This subject introduces students to the proposition that much routine activity in administration can be transferred to a technology base (e.g. a computer program), and that technology can assist in the making of more effective decisions. The subject aims to introduce the role and limitations of technology in the administrative process. It includes forms of technology, data base/management information systems, automated offices, and computer applications, and their administrative and societal implications.

AIPA905 HUMAN RESOURCE ADMINISTRATION
6 credit points (3 hours per week)
Assessment: Tutorials, assignments, examinations
This subject addresses the issue of how to work effectively towards both organisational and personal goals. It examines individual needs and behaviour patterns of people in organisations, characteristics of groups, supervision, and staff development.

AIPA906 ADMINISTRATIVE DECISION-MAKING
6 credit points (3 hours per week)
Assessment: Tutorials, assignments, examinations
This subject aims to introduce students to the options available in both qualitative and quantitative methodologies which are available for decision-making in the public administration environment. The subject covers quantitative methods and their use in decision-making techniques, other methods of making decisions in organisations, theories of change and the impact of people on decisions, and case studies of decisions in public administration.

AIPA911 PROJECT IN REGIONAL ADMINISTRATION
6 credit points (3 hours per week 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.

Elective Subject Outlines

AIPA921 AUSTRALIAN GOVERNMENT ADMINISTRATION
6 credit points: 2 hours/week; lecture/seminar
Assessment: Assignments, seminar, examination
An introduction to the development of government administration in the Australian States, the Commonwealth, the Local Government. Inter-governmental relations within a federal system. An examination of the effects of a Westminster-style federal system on the parameters and role of government administration. Administrative reform with particular reference to major reviews of Australian and New South Wales government administration and the issues of regionalisation, inter-governmental coordination and community participation.

TEXTBOOKS

AIPA922 PUBLIC POLICY AND ADMINISTRATION

6 credit points; 2 hours/week; lecture/seminar
Assessment: Assignments, seminars, examination

Policy formation and decision-making in the public sector. The processes of formulating public policy through existing government machinery. The pressures created by present and emerging public policy issues. Traditional pressure groups and emergent patterns of participation in policy-formation. New strategies and processes of public policy and planning.

TEXTBOOKS

AIPA923 INTER-ORGANISATIONAL RELATIONS

6 credit points; 2 hours/week; lecture/seminar
Assessment: Assignments, seminars, examination

An examination of relations between Federal, State and Local government in Australia: public-private sector interactions: relations between governments, business, unions and communities on economic and industrial issues. Inter-organisational and inter-sectoral relations on bases for planned collaborative development of geographic and functional domains. Traditional and innovative domain-based organisations.

TEXTBOOKS
INDUSTRIAL RELATIONS

INTRODUCTION
The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Commerce
2. Honours Master of Arts by Coursework or Research
3. Honours Master of Commerce by Coursework or Research
4. Doctor of Philosophy

The schedules of subjects for the Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject ECON993 Thesis.

The specific requirements for each degree and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

CURRENT RESEARCH AREAS
The following areas of research are available to candidates undertaking the Honours Masters degrees by research and the Doctor of Philosophy degree:

- Labour Economics and Industrial Relations
- Aborigines in the workforce
- An Australian social contract
- Household-market production
- Industrial democracy
- Labour market implications of changing patterns of work and education
- Manpower management for the individual or organisation
- New technology and union bargaining procedures
- Occupational and industrial segregation of women
- Theory and measurement of labour hoarding
- Disadvantaged workers in the workforce
- Scientific management
- Work practices and industrial relations in the steel industry

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ARTS
HONOURS MASTER OF COMMERCE

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<td>ECON930</td>
<td>Personnel Management</td>
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<td>Research Report</td>
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<tr>
<td>ECON993</td>
<td>Thesis</td>
<td>48</td>
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<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>LAW987</td>
<td>Special Topic in Law - A</td>
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<td>PSYC924</td>
<td>Organisational Psychology</td>
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<tr>
<td>PSYC956</td>
<td>The Psychology of Organisational Communication*</td>
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HONOURS MASTER OF ARTS
HONOURS MASTER OF COMMERCE (Cont'd)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>SOC932</td>
<td>Advanced Social Research Method</td>
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<td>SOC933</td>
<td>Advanced Research Techniques</td>
<td>8</td>
</tr>
<tr>
<td>SOC944</td>
<td>Advanced Organisational Studies</td>
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<tr>
<td>SOC945</td>
<td>Advanced Studies in Science, Technology and Society</td>
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<td>SOC940</td>
<td>Advanced Social Policy Studies</td>
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<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
<td>6</td>
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<tr>
<td>MGMT912</td>
<td>Organisation Structure and Control</td>
<td>6</td>
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<tr>
<td>MGMT953</td>
<td>Personnel Management</td>
<td>6</td>
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<tr>
<td>HIST901</td>
<td>Australian Economic History 1850-1930</td>
<td>12</td>
</tr>
<tr>
<td>HIST902</td>
<td>Australian Economic History 1930-1985</td>
<td>12</td>
</tr>
</tbody>
</table>

*Not offered in 1989.

COURSE DESCRIPTIONS

1. GRADUATE DIPLOMA IN COMMERCE

(i) The Graduate Diploma in Commerce shall be subject to the University regulations for the award of Graduate Diplomas together with the following conditions:

(ii) Candidates are required to complete subjects making up 48 credit points, normally including the following:

- ECON140 Wage Determination in Australia - 6
- ECON240 Wage Determination in Australia - 8
- ECON142 Trade Unions, Employers and Government - 6
- ECON242 Trade Unions, Employers and Government - 8
- ECON340 Comparative Studies in Industrial Relations - 8
- ECON342 Research Topics in Industrial Relations - 8
- ECON948 Employers and Industrial Relations - 8
- ECON950 Industrial Relations Policy - 8

ECON956 Advanced Industrial Relations Processes - 8

(iii) The remaining subjects will normally be chosen from Schedule C5 of the Bachelor Degree Regulations

(iv) Subjects making up at least 30 credit points will normally be chosen from Schedule C5 of the Bachelor Degree Regulations - 200- and 300-level subjects, but appropriate 900-level subjects may be prescribed in the place of the 200- or 300-level subjects.

(v) The course for the Graduate Diploma requires approval by the Head of the Department of Economics as providing a coherent study in Industrial Relations.

(vi) A candidate may not include in his or her Graduate Diploma program any course component which duplicates a subject previously passed by the candidate as part of any degree or diploma already held or previously attempted.

(vii) The Graduate Diploma will normally occupy two sessions of full-time study, or four sessions of part-time study.

(viii) Departmental pre-requisites apply to choice of subjects.
2. HONOURS MASTER OF ARTS

A. 1. Candidates who have completed at an acceptable standard the requirements for the award of the BA (Hons) in Industrial Relations, or in a cognate discipline, 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 following subjects, or combination of subjects.

   (i) Thesis (48 credit points)

   or

   (ii) Project (16 credit points) plus coursework to aggregate not less than 48 credit points

   or

   (iii) Research report (24 credit points), and coursework aggregating not less than 24 credit points

   or

   (iv) Coursework aggregating not less than 48 credit points.

A. 2. Subjects are to be selected from 900-level Industrial Relations subjects offered by the Department of Economics and other Departments, as included in the Schedule of Graduate Subjects for Industrial Relations; provided that

   (a) ECON948 and ECON950 are compulsory when not proceeding by thesis alone, and

   (b) subjects aggregating not more than 12 credit points may be selected from outside the Schedule of Graduate

A. 3. Students shall normally not include in their program subjects substantially similar to any completed at undergraduate level.

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 in accordance with the requirements (1) to (3) above.

3. HONOURS MASTER OF COMMERCE

A. 1. Candidates who have completed the requirements for the award of a bachelor's degree with honours in Economics at a standard of Class II, Division 2 or higher, or who have an equivalent qualification may fulfil the requirements for an MCom (Hons) degree in Industrial Relations by completing at honours standard an approved course of at least 48 credit points from the following schedule:

   (i) Thesis (48 credit points).

   or
(ii) Project (16 credit points) and coursework aggregating not less than 32 credit points.

or

(iii) Research report (24 credit points) and coursework aggregating not less than 24 credit points.

or

(iv) Coursework aggregating not less than 48 credit points.

2. Supervision of research and approval of courses will be organised by the Head of the Department of Economics.

3. Subjects are to be selected from the Schedule of Graduate Subjects; subjects aggregating not more than 12 credit points may be selected from those offered by Departments other than Economics.

B. Applicants who have completed at an acceptable standard the requirements for a bachelor’s degree with a specialisation in Economics or Industrial Relations at a standard less than Class II, Division 2, or who have an equivalent qualification, may be permitted to register as candidates for the MCom(Hons) degree in Industrial Relations. 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 requirements 1, 2 and 3 above.

For description of subjects, refer to Economics section.
INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Arts (European Studies)
2. Master of Arts
3. Honours Master of Arts by Research
4. Doctor of Philosophy

For the Graduate Diploma, subjects are selected from the undergraduate schedules of subjects set out in Volume II of the Calendar. Please refer to the information about this diploma on the following pages.

The schedule of subjects available for the Masters degrees are set out below.

For the Doctor of Philosophy degree candidates enrol in the subject LANG903 Thesis.

The specific requirements for each degree and diploma and the descriptions of the subjects available are set out in the pages following the schedule of subjects.

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:

- 19th and 20th Century French novel
- Linguistics applied to the teaching of French as a second language
- Intonation analysis
- Language teaching methodology
- 18th Century history of ideas
- 20th Century novel and civilization
- Federico De Roberto and The "Secondo Ottocento"
- The Italian "Melodramma"
- Methods and materials for teaching Italian at the secondary and tertiary level
- Italo-Australian literature
- Multilingual broadcasting in Australia
- Italian lexicography
- Contrastive linguistics: English-Italian

SCHEDULE OF GRADUATE SUBJECTS

MASTER OF ARTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>LANG913</td>
<td>Advanced Topics in French</td>
<td>48</td>
</tr>
<tr>
<td>LANG923</td>
<td>Advanced Topics in French and Italian</td>
<td>48</td>
</tr>
<tr>
<td>LANG953</td>
<td>Advanced Topics in Italian</td>
<td>48</td>
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HONOURS MASTER OF ARTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>LANG903</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
<tr>
<td>LANG913</td>
<td>Advanced Topics in French</td>
<td>48</td>
</tr>
<tr>
<td>LANG923</td>
<td>Advanced Topics in French and Italian</td>
<td>48</td>
</tr>
<tr>
<td>LANG953</td>
<td>Advanced Topics in Italian</td>
<td>48</td>
</tr>
</tbody>
</table>

Subjects previously prefixed EURO are not to count with subjects with the same numerals now prefixed as LANG.
COURSE DESCRIPTIONS

1. GRADUATE DIPLOMA IN ARTS (EUROPEAN STUDIES)

The purpose of the Graduate Diploma in Arts (European Studies) is to provide in a recognized 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. The Graduate Diploma shall be subject to the University regulations for the award of Graduate Diplomas together with the following conditions:

(1) Candidates are required to complete subjects totalling 48 credit points, of which at least 28 are to be from those listed in the Arts Schedule under Languages. Subjects up to a total of 20 credit points may be chosen from subjects listed by other departments in the Arts Schedule provided that, in the view of the Head of the Department of Languages, these relate to European studies.

(2) Of the required 48 credit points at least 24 must be from 200 or 300 level courses.

(3) 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.

(4) The selection of courses and the program of study shall be approved by the Departmental Head.

(5) A full-time candidate shall normally complete the Graduate Diploma in one academic year, a part-time candidate in no less than 2 and no more than 3 academic years.

(6) Admission to candidature for the Graduate Diploma is on the recommendation of the Head of the Department of Languages who shall assess the applicant's aptitude for the course.

2. MASTER OF ARTS

A. FRENCH

(1) An applicant for registration for the degree shall have qualified for:

(a) a degree of bachelor in the University which includes at least 24 credit points at 300-level in French; OR

(b) a degree of bachelor in the University together with at least 24 credit points at 300-level in French; OR

(c) an equivalent qualification from another tertiary institution.

(2) A candidate may be considered for the award of the degree after successfully completing two academic sessions of full-time study (or its equivalent) of subject number LANG913: Advanced Topics in French.

(3) For details refer to the regulations for the Master of Studies degree.

B. ITALIAN

(1) An applicant for registration for the degree shall have qualified for:

(a) a degree of bachelor in the University which includes at least 24 credit points at 300-level in Italian; OR

(b) a degree of bachelor in the University together with at least 24 credit points at 300-level in Italian; OR

(c) an equivalent qualification from another tertiary institution.

(2) A candidate may be considered for the award of the degree after successfully completing two academic sessions of full-time study (or its equivalent) of subject number LANG953: Advanced Topics in Italian.

(3) For details refer to the regulations for the Master degree.
C. FRENCH AND ITALIAN

(1) An applicant for registration for the degree shall have qualified for:

(a) a degree of bachelor in the University which includes at least 24 credit points at 300-level in French and Italian; OR

(b) a degree of bachelor in the University together with at least 24 credit points at 300-level in French and Italian; OR

(c) an equivalent qualification from another tertiary institution.

(2) A candidate may be considered for the award of the degree after successfully completing two academic sessions of full-time study (or its equivalent) of subject number LANG923: Advanced Topics in French and Italian.

(3) For further details refer to the regulations for the Master degree.

3. HONOURS MASTER OF ARTS

Structure

Students entering the program with a degree in French and/or Italian at a standard below Honours Class II, Division 2 will be required to complete one of the following subjects:

LANG913 Advanced Topics in French
LANG923 Advanced Topics in French and Italian
LANG953 Advanced Topics in Italian

They then proceed to:

LANG903 Major thesis

Students entering the program with an honours degree at a standard of at least Class II, Division 2 will be required to complete only:

LANG903 Major thesis

SUBJECT DESCRIPTIONS

The advanced topics will be selected from any area of French or Italian studies. The selection will be made by the Departmental Chairperson taking into account the expertise of academic staff and the interests and backgrounds of students.

LANG903 MAJOR THESIS

48 credit points.

LANG913 ADVANCED TOPICS IN FRENCH

48 credit points.

LANG923 ADVANCED TOPICS IN FRENCH AND ITALIAN

48 credit points.

LANG953 ADVANCED TOPICS IN ITALIAN

48 credit points.
LEGAL STUDIES

INTRODUCTION

The following degrees will be offered in this area at a future date:

1. Honours Master of Arts by Coursework or Research
2. Honours Master of Commerce by Coursework or Research
3. Doctor of Philosophy

The specific requirements for each degree and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

CURRENT RESEARCH AREAS

The following areas of research will be available to candidates undertaking the Master of Commerce and the Doctor of Philosophy degree:

- Company law
- Contract law
- Industrial relations law
- Public law
- Taxation law and practice
- Anti-discrimination law
- Regulation of economic activity

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ARTS and HONOURS MASTER OF COMMERCE

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit</th>
<th>Points</th>
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<tbody>
<tr>
<td>LAW951</td>
<td>Taxation Policy and Practice</td>
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<td>6</td>
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<tr>
<td>LAW953</td>
<td>Studies in Taxation</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>LAW963</td>
<td>Jurisprudence</td>
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<tr>
<td>LAW964</td>
<td>Studies in Business Law</td>
<td></td>
<td>6</td>
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<tr>
<td>LAW965</td>
<td>Studies in Administrative Law</td>
<td></td>
<td>6</td>
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<tr>
<td>LAW966</td>
<td>Studies in Industrial Law</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>LAW967</td>
<td>Studies in Trade Practices and Consumer Law</td>
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<tr>
<td>LAW987</td>
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<tr>
<td>LAW988</td>
<td>Special Topic in Law - B</td>
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<td>6</td>
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<tr>
<td>LAW993</td>
<td>Research Essay</td>
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GRADUATE DIPLOMA IN COMMERCE (MANAGEMENT) and MASTER OF BUSINESS ADMINISTRATION

<table>
<thead>
<tr>
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<th>Subject</th>
<th>Credit</th>
<th>Points</th>
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<tbody>
<tr>
<td>LAW960</td>
<td>Law for Managers</td>
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<tr>
<td>LAW961</td>
<td>Selected Legal Topics in Management</td>
<td></td>
<td>6</td>
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</tbody>
</table>

SUBJECT DESCRIPTIONS

Session of Offer

Subjects for the Honours Masters courses will be offered, subject to availability of staff, in a session to be determined by the Head of Department.

Seminars

Generally a one hour weekly seminar, or a two hour fortnightly seminar, is held for each 900 level subject.

Assessment

The assessment for 900 level subjects may be based on seminar contribution, essays and examinations.

Textbooks

There are no prescribed textbooks. Reading is required from a wide variety of references, including books and journal articles. Specific recommendations may be
obtained from the Legal Studies Department.

**LAW951 TAXATION POLICY AND PRACTICE**

*6 credit points*

An examination of the revenue laws including income tax, sales tax, property tax, stamp duty and payroll tax. (N.B. This subject is not to count with LAW352 Advanced Taxation Law.)

**LAW953 STUDIES IN TAXATION**

*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 LAW FOR MANAGERS**

*Second session; 6 credit points*

Sources of law, the common law system, the doctrine of precedent; the hierarchy of the courts, how to understand case reports, statutory interpretation and how to understand an act of parliament; constitutional structure of the federal system and separation of powers. Outlines the law relating to contracts, agency, business organisations, the employment relationship, consumer protection; and taxation of income, including the concepts of income and deductability.

**LAW963 JURISPRUDENCE**

*6 credit points*

A study of theories on the nature and purpose of law.

**LAW964 STUDIES IN BUSINESS LAW**

*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**

*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**

*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**

*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.

LAW987 SPECIAL TOPIC IN LAW - A

6 credit points

LAW988 SPECIAL TOPIC IN LAW - B

6 credit points

A special topic to be selected from any area of commercial law. (N.B. 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.)

LAW993 RESEARCH ESSAY

12 credit points

Information may be obtained from the Head of the Department regarding the research essay.
MANAGEMENT

INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Commerce
2. Master of Business Administration
3. Honours Master of Arts by Coursework or Research
4. Honours Master of Commerce by Coursework or Research
5. Doctor of Philosophy

The schedules of subjects available for the Masters degree and diploma are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject MGMT975 Thesis.

The specific requirements for each degree and diploma and the description of the subjects available are set out in the pages following the schedules of subjects.

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking research degrees.

- Business government relations
- Capital market investments
- Enterprise development and entrepreneurship
- Financial systems in developing countries
- Industrial marketing and organisational buyer behaviour
- Local economic initiatives
- Management of R & D
- Management training
- Management styles and creative leadership
- Manufacturing strategy
- Marketing communication and consumer behaviour
- Mergers and divestment
- Organisational politics
- Organisational behaviour and structure
- Portfolio management and capital markets
- Retailing
- Strategic management
- Technology management

SCHEDULE OF GRADUATE SUBJECTS

GRADUATE DIPLOMA IN COMMERCE

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td></td>
<td><strong>Compulsory subjects</strong></td>
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<tr>
<td>ACCY901</td>
<td>Accounting for Managers</td>
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<tr>
<td>MGMT911</td>
<td>Organisational Behaviour</td>
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<td>MGMT912</td>
<td>Organisation Structure and Control</td>
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</tr>
<tr>
<td>MGMT922</td>
<td>Marketing I</td>
<td>6</td>
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</tbody>
</table>

(Students are required to substitute an optional subject or subjects for any compulsory subjects substantially covered in previous degree or diploma studies.)

<table>
<thead>
<tr>
<th></th>
<th><strong>Optional subjects</strong></th>
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<tbody>
<tr>
<td>LAW960</td>
<td>Law for Managers</td>
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<tr>
<td>LAW961</td>
<td>Selected Legal Topics in Management</td>
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<tr>
<td>ACCY975</td>
<td>Special Topic in Accounting A</td>
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<tr>
<td>ACCY976</td>
<td>Special Topic in Accounting B</td>
<td>6</td>
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<tr>
<td>MGMT901</td>
<td>Capital Investment</td>
<td>6</td>
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<tr>
<td>MGMT903</td>
<td>Investment Management</td>
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<tr>
<td>MGMT921</td>
<td>Managerial Finance</td>
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<tr>
<td>MGMT925</td>
<td>Selected Topics in Management A</td>
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</table>

(Subjects aggregating not less than 24 credit points required)
### GRADUATE DIPLOMA IN COMMERCE (Cont’d)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>MGMT926</td>
<td>Selected Topics in Management B</td>
<td>6</td>
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<tr>
<td>MGMT931</td>
<td>Strategic Planning and Policy</td>
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<tr>
<td>MGMT940</td>
<td>Innovation and Entrepreneurship</td>
<td>6</td>
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<tr>
<td>MGMT941</td>
<td>Small Business Management I</td>
<td>6</td>
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<tr>
<td>MGMT942</td>
<td>Small Business Finance</td>
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<tr>
<td>MGMT943</td>
<td>Small Business Management II</td>
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<tr>
<td>MGMT944</td>
<td>Enterprise Project</td>
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<td>MGMT945</td>
<td>Technology Enterprise Project</td>
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<tr>
<td>MGMT947</td>
<td>Quality Management</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>Personnel Management</td>
<td>6</td>
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<tr>
<td>MGMT954</td>
<td>Special Topic in Management A</td>
<td>6</td>
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<tr>
<td>MGMT955</td>
<td>Special Topic in Management B</td>
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<tr>
<td>MGMT956</td>
<td>Product Management</td>
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<tr>
<td>MGMT960</td>
<td>Case Study</td>
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<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
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<td>MGMT977</td>
<td>Marketing II</td>
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<td>MGMT979</td>
<td>Decision Analysis</td>
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<tr>
<td>MGMT980</td>
<td>Business Research Methods</td>
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<td>ECON907</td>
<td>Cost Benefit Analysis</td>
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<tr>
<td>ECON932</td>
<td>Economic Analysis of the Business Environment</td>
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<tr>
<td>ECON954</td>
<td>Industrial Relations in Australia</td>
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<td>STS937</td>
<td>Management of Technology</td>
<td>6</td>
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<tr>
<td>AIAE901</td>
<td>Introduction to Staff Development</td>
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<tr>
<td>AIAE905</td>
<td>Administration of Organisational Change</td>
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<td>AIPA921</td>
<td>Australian Government Administration</td>
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<tr>
<td>AIPA922</td>
<td>Public Policy Administration</td>
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<tr>
<td>AIPA923</td>
<td>Inter-Organisational Relations</td>
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### MASTER OF BUSINESS ADMINISTRATION

**First Year Compulsory**

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<tbody>
<tr>
<td>ACCY901</td>
<td>Accounting for Managers</td>
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<td>MGMT911</td>
<td>Organisational Behaviour</td>
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<tr>
<td>MGMT922</td>
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**Options (one of the following)**

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<tr>
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<tr>
<td>ECON932</td>
<td>Economic Analysis of the Business Environment</td>
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**Second and Third Year Compulsory**

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<td>MGMT921</td>
<td>Managerial Finance</td>
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<td>MGMT931</td>
<td>Strategic Planning and Policy</td>
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<td>MGMT976</td>
<td>Competitive Strategy and Analysis</td>
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**Options (three of the following)**

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MASTER OF BUSINESS ADMINISTRATION (Cont'd)

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<td>MGMT941</td>
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<td>MGMT942</td>
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<td>MGMT943</td>
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<td>MGMT944</td>
<td>Enterprise Project</td>
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<td>MGMT945</td>
<td>Technology Enterprise Project</td>
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<td>MGMT952</td>
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<td>MGMT977</td>
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<td>MGMT980</td>
<td>Business Research Methods</td>
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<td>AIAE901</td>
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<td>Cost Benefit Analysis</td>
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<td>ECON954</td>
<td>Industrial Relations in Australia</td>
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<td>STS937</td>
<td>Management of Technology</td>
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MASTER OF BUSINESS ADMINISTRATION (MANAGEMENT INFORMATION SYSTEMS)

Compulsory Coursework (72 credit points):

| ACCY901 | Accounting for Managers                  | 6             |
| MGMT911 | Organisational Behaviour                 | 6             |
| MGMT922 | Marketing I                              | 6             |
| MGMT931 | Strategic Planning & Policy              | 6             |
| MGMT976 | Competitive Strategy and Analysis        | 6             |
| AICA902 | Structure of Programs and Data           | 6             |
| AICA905 | Structured Systems Design                | 6             |
| AICA907 | Systems Development Environment          | 6             |
| AICA921 | Advanced Data Management                 | 6             |
| AICA922 | Distributed Information Systems          | 6             |
| AICA923 | Information Systems Management           | 6             |
| ACCY933 | Studies in Information Systems in Accounting | 6     |

Compulsory project (18 credit points)

AICA940 Management Information Systems Project 18

One elective (6 credit points) to be chosen from:

| AICA906 | Information in Organization              | 6             |
| AICA909 | Office Automation                        | 6             |
| AICA924 | System Modelling & Simulation            | 6             |
| AICA925 | Knowledge-Based Information Systems       | 6             |
| AICA926 | Decision Support Systems                 | 6             |
or a cognate subject offered by another academic unit (e.g. Accountancy, Computing Science, etc.) of the University, subject to the approval of the Heads of the Department of Management and the School of Industrial and Administrative Studies.

Subjects descriptions from the AICA subjects are listed under the School of Industrial and Administrative Studies.

**HONOURS MASTER OF ARTS**

**HONOURS MASTER OF COMMERCE**

*Compulsory subjects for students not holding an Honours degree in Management or similar subject and undertaking a 96 credit point Masters degree.*

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tr>
<td>MGMT986</td>
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<td>MGMT987</td>
<td>Special Topic in Management (B)</td>
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<td>MGMT988</td>
<td>Special Topic in Management (C)</td>
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<tr>
<td>MGMT989</td>
<td>Special Topic in Management (D)</td>
<td>12</td>
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</table>

For students with an Honours degree an agreed combination of course and/or thesis work totalling 48 credit points 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>
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<tr>
<td>MGMT990</td>
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<tr>
<td>MGMT991</td>
<td>Major Thesis</td>
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**COURSE DESCRIPTIONS**

1. **GRADUATE DIPLOMA IN COMMERCE**

   In accordance with the general regulations 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 a manager holding other academic or professional qualifications and with experience in a managerial position for not less than five years may be admitted as a candidate.

   Candidates are required to complete the compulsory subjects together with optional subjects selected from the schedule of subjects for the Graduate Diploma, and aggregating 48 credit points. The overall course of study for the Graduate Diploma is to be approved by the Head, Department of Management.

   The purpose of the Graduate Diploma in Commerce is to provide an education with an applied emphasis at postgraduate level in the several functional areas of management suitable for "generalists" in management.

   The Graduate Diploma will usually be studied part-time. Classes are conducted on a seminar basis, students being encouraged to participate fully, drawing on their work experience. Because of this the number of candidates in each seminar group is restricted.

2. **MASTER OF BUSINESS ADMINISTRATION**

   The objective of this degree is to enable graduates over a period of three to four years part-time study to be introduced to the main functional areas of management and to the concepts needed by management in order to be able to manage effectively and efficiently. For this purpose, certain key concepts/disciplines need to be studied in depth.

   This is achieved in eight compulsory subjects of six credit points each, plus optional subjects and a major project. The compulsory subjects embrace the main areas and there is also an opportunity to select optional subjects in areas of special interest. The project is a key part
of the degree and either through an in­
company assignment or more traditional
research project, the candidate will be
expected to interface practical experience
and theory.

Specific requirements for the
Master of Business
Administration

Entry: University degree or equivalent. The Graduate Management Admissions Test (GMAT) may also be required to support applications.

Length: Three to four years part-time, 96 credit points. Subjects for the first year correspond to those compulsory for the Graduate Diploma in Commerce (i.e. 24 credit points) plus additional compulsory and optional subjects aggregating a further 72 credit points. In exceptional cases, limited credit from previous postgraduate study will be permitted at the discretion of the Head of the Department of Management.

Course approval: The programme of study for each student is to be approved by the Head of the Department of Management. Students who have substantially covered the content of any of the compulsory subjects, may be exempted from studying them by the Head of the Department from any such subject, but will be required to substitute an optional subject for each subject for which exemption is granted.

Course content: Subjects are selected from the Schedule of Graduate Subjects.

MASTER OF BUSINESS
ADMINISTRATION (MANAGEMENT
INFORMATION SYSTEMS)

The MBA (MIS) programme allows students to specialise in management information systems, whilst keeping a core of general management subjects. It aims to provide degree graduates with suitable experience, with a course of studies which will enable them to function in the information resource management role within an organisation or business concern.

The programme requires the successful completion of 96 credit points of approved studies conforming to the following structure:

(1) Coursework totalling 78 credit points, of which
   (a) 72 credit points are compulsory subjects, and
   (b) 6 credit points are elective subject(s);

(2) Project totalling 18 credit points.

The subjects are to be chosen from the Schedule of Graduate Subjects.

Unless otherwise specified, regulations covering course approval, length, credits for previous studies, etc., are identical to those for the general MBA programme.

Entry: This is subject to the same general entry requirement as the MBA programme above. In addition, those seeking admission to the specialisation in Management Information Systems must also satisfy two specific requirements:

(a) they must have at least two years of relevant experience in the information systems areas;

(b) they must have completed at least two semester subjects of approved tertiary level courses (or equivalent) in computing with substantial content in:
   (i) programming, and
   (ii) systems analysis.

3. HONOURS MASTER OF ARTS

(1) (a) Candidates who have completed at an acceptable standard the requirements for the award of the BA(Hons) in Accountancy, Economics or Management at a standard of Class II, Division 2 or higher, or an equivalent degree, may qualify for the award of the MA (Hons) degree by completing at honours standard any one of the courses of study listed below
under the Honours Master of Commerce degree.

(b) See corresponding comments below under the Honours Master of Commerce degree, Management.

(c) See corresponding comments below under the Honours Master of Commerce degree, Management.

(2) 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 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 (1) to (3) above.

4. HONOURS MASTER OF COMMERCE

(1) (a) Candidates who have completed the requirements for the award of the BCom (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 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 coursework aggregating not less than 24 credit points.

or (iii) Coursework aggregating not less than 48 credit points.

(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 (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 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
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 (1) to (3) 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 Clause 5(3) of the Honours Master Degree Regulations may have their enrolment cancelled in the event that the preliminary program or designated subjects is not completed at the appropriate standard.

SUBJECT DESCRIPTIONS

MGMT901 CAPITAL INVESTMENT

6 credit points (2 hours lectures per week)
Assessment: seminars, essay(s) and examinations.
Pre-requisite: ACCY221 or MGMT921

An in-depth study of capital investment decision analysis. The theoretical bases of net present value and internal rate of return selection criteria. The application of investment selection criteria under diverse conditions such as capital rationing, mutually exclusive choice situations, buy/lease decisions, fluctuating rates of output and inflation. The incorporation of risk into capital investment decision analysis, including the application of capital asset pricing models to investment evaluation.

Text to be advised.

MGMT903 INVESTMENT MANAGEMENT

6 credit points (2 hours lectures per week)
Assessment: seminars, essay(s) and examinations
Pre-requisite: ACCY221 or MGMT921


Text to be advised.

MGMT911 ORGANISATIONAL BEHAVIOUR

6 credit points (2 hours lectures per week)
Assessment: seminars, case studies, essay(s) and examination(s)

A study of the behaviour of individuals in organisations, groups and group processes, leadership and communication, organisation design and job design, appraisal of performance, processes of organisational change and development.

Text to be advised.

MGMT912 ORGANISATION STRUCTURE AND CONTROL

6 credit points (2 hours lectures per week)
Assessment: seminars, essays examination

This subject explores the role of individuals in 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, and Japanese management practice will also be considered.

Text to be advised.

MGMT921 MANAGERIAL FINANCE

6 credit points (2 hours lectures per week)
Assessment: seminars, case studies, essays and examinations
Pre-requisite: ACCY901

An examination of the sources of corporate finance and the identification of relevant costs for decision making. Specific topics may include financial decision and corporate strategy, valuation, receivables, capital investment, risk and uncertainty, required rates of return, dividend policy, leasing, mergers and acquisitions.

Text to be advised.

MGMT922 MARKETING

6 credit points (2 hours lectures per week)
Assessment: Case studies, essays and examination.

The subject examines the contemporary view of marketing and focuses on the following areas: identification of market opportunities; segmentation and target marketing; marketing mix decisions; product life cycle analysis and new product development.

Text to be advised.

MGMT925 SELECTED TOPICS IN MANAGEMENT A

6 credit points

A special topic selected from any area of management (N.B. 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 TOPICS IN MANAGEMENT B

6 credit points

A special topic selected from any area of management (N.B. The selection would be made by the Head of the Department, taking into account the expertise of academic staff, including visiting staff, and the interests of students).

MGMT931 STRATEGIC PLANNING AND POLICY

6 credit points (2 hours lectures per week)
Assessment: Examination and essays.

The subject will use case studies as a key teaching vehicle and will examine strategy in the context of, for profit and not for profit 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.

Text to be advised.

MGMT940 INNOVATION AND ENTREPRENEURSHIP

6 credit points (2 hours lectures per week)
Assessment: essay(s) and examinations

The nature and role of entrepreneurs and entrepreneurship. 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.

Text to be advised.

MGMT941 SMALL BUSINESS MANAGEMENT I

6 credit points (2 hours lectures per week)
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 parts of the specialisation and examines this in a small business context through the development of business planning procedures.

Text to be advised.
MGMT942 SMALL BUSINESS FINANCE

6 credit points (2 hours lectures per week)
Assessment: essay(s) and examinations

Planning the structure and finances of a business from establishment of the small business through to flotation. The choice of the structure of business, and an examination of alternative sources of finance, requirements of financiers, improved utilisation of existing resources, and relevant costs in financing.

Text to be advised.

MGMT943 SMALL BUSINESS MANAGEMENT II

6 credit points (2 hours lectures per week)
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.

Text to be advised.

MGMT944 ENTERPRISE PROJECT

12 credit points (2 hours lectures per week)
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.

Text to be advised.

MGMT945 TECHNOLOGY ENTERPRISE PROJECT

6 credit points (2 hours lectures per week)
Assessment: project work

Students will develop their own enterprise project. This will involve them in developing new product/process proposals and planning the establishment of a new enterprise. The business plan of this will form the basis of the final assessment.

Not to be taken with MGMT944.

MGMT947 QUALITY MANAGEMENT

6 credit points (2 hours lecture, 1 hour tutorial per week)
Assessment: Assignments and examination

This subject examines the statistical and behavioural tools that form the basis of Total Quality Control (TQC). Specific topics will include: Japanese management practices and the impact on competitive advantage; TQC as part of corporate strategy; Kanban and JIT production management; quality circles; statistical tools and controls; Kaizen management; applications, implementation and auditing of TQC.

Text to be advised.

MGMT952 PRODUCTION AND OPERATIONS MANAGEMENT

6 credit points (2 hours lectures per week)
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, and management of change in the production environment. 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.

Text to be advised.
MGMT953 PERSONNEL MANAGEMENT

6 credit points (2 hours lectures per week)
Assessment: seminars, case studies, essay(s) and examination(s).

Managing people at work, including examination of employment policies and selection, performance appraisal, training and development, financial compensation and welfare, health and safety, and related legal aspects.

The Economics Department proposes to collaborate in developing an integrated inter-disciplinary study of the subject area. Its contribution will be based on the study of the supply of and demand for human resources both in the organisation of the individual management unit and in macroeconomic terms.

Text to be advised.

MGMT954 SPECIAL TOPIC IN MANAGEMENT A

6 credit points
Assessment: seminars, case studies, essay(s) and examination(s)

A special topic selected from any area of management. (N.B. 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).

Text to be advised.

MGMT955 SPECIAL TOPIC IN MANAGEMENT B

6 credit points
Assessment: seminars, case studies, essay(s) and examination(s)

A special topic selected from any area of management. (N.B. 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).

Text to be advised.

MGMT956 PRODUCT MANAGEMENT

6 credit points (2 hours lectures per week)
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. The following are examples of some of the concepts which will be studied - product life cycle, segmentation, product positioning and the product portfolio concept.

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.

Text to be advised.

MGMT960 CASE STUDY

6 credit points

An analysis of a particular managerial problem encountered in practice.

Text to be advised.

MGMT976 COMPETITIVE STRATEGY AND ANALYSIS

6 credit points (2 hours lectures per week)
Assessment: seminars, essays 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.

Text to be advised.
MGMT977 MARKETING II

6 credit points (2 hours lectures per week)
Assessment: seminars, essays and examination

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 goods, services, or ideas. Topics include: the structure and function of research information; problem definition and research design; the measurement of consumer attitudes and preferences; collecting primary and secondary data; evaluating and interpreting result results.

Text to be advised.

MGMT979 DECISION ANALYSIS

6 credit points (2 hours lectures per week)
Assessment: seminars, assignments, essay(s), examination(s)

This subject examines the decision making process and the information systems required to make and implement decisions. Decision models and criteria for rational decision making under conditions of risk and uncertainty. Linear programming, network analysis, simulation, portfolio analysis, utility theory. Implementation issues: rationality and its limits, individual, group and organisational information processing and decision making. Cases in marketing, finance and operations management.

Text to be advised.

MGMT980 BUSINESS RESEARCH METHODS

6 credit points (2 hours lectures per week)
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 the following:

1. Introduction to philosophy of research;
2. Problem identification and hypotheses development;
3. Modes of designing research;
4. Validity and reliability problems;
5. Techniques for measuring characteristics;
6. Sample size and response rates;
7. Analysis of data.

Text to be advised.

MGMT981 RESEARCH PROJECT

24 credit points
Assessment: project report

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.

MGMT986 SPECIAL TOPIC IN MANAGEMENT A

12 credit points

MGMT987 SPECIAL TOPIC IN MANAGEMENT B

12 credit points

MGMT988 SPECIAL TOPIC IN MANAGEMENT C

12 credit points

MGMT989 SPECIAL TOPIC IN MANAGEMENT D

12 credit points

Master of Commerce Honours qualifying subjects consisting of a programme of course work and reading as prescribed by the Head of the Department of Management.
232 MANAGEMENT

MGMT990 MINOR THESIS

24 credit points

MGMT991 MAJOR THESIS

48 credit points

Approved programme of study agreed with the Head of the Department of Management.
MATHEMATICS

INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Science
2. Graduate Diploma in Science (Statistics)
3. Honours Master of Science by Research or Coursework
4. Doctor of Philosophy

The schedule of subjects available for the Masters degree is set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject MATH993 Thesis.

The specific requirements for each degree and diploma and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

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:

- Numerical analysis
- Matrix analysis
- Fluid mechanics
- Biological fluid mechanics
- Oceanography
- Nuclear reactor theory
- Statistical decision theory
- Times Series
- Population dynamics and plant growth
- Industrial applications of mathematics
- Functional analysis
- Measure theory
- Abstract algebra
- Logic
- Set Theory
- Topology
- Continuum mechanics
- Non-linear partial differential equations

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF SCIENCE

<table>
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<th>Subject</th>
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<td>MATH902</td>
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<td>MATH913</td>
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<td>MATH934</td>
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COURSE DESCRIPTIONS

1. GRADUATE DIPLOMA IN SCIENCE

The Graduate Diploma in Science (Mathematics) shall be subject to the University requirements for the award of Graduate Diplomas together with the following conditions.

(1) A candidate shall undertake a course of graduate studies in one or more of the following fields:


(2) Entry to the Graduate Diploma 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 the Department of Mathematics, from a degree or diploma containing substantial study in an appropriate discipline.

(3) The graduate diploma will normally occupy two sessions of full-time study or four sessions of part-time study, and will involve:

the successful completion of a Mathematics Honours Seminar whose credit point value is 12, and the satisfactory completion of subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Department of Mathematics) (under certain circumstances, with the approval of the Head of the Department of Mathematics, a limited number of subjects may be chosen from the Schedule of Graduate Subjects (Department of Computing Science)) and the Mathematics Schedule of the Undergraduate Bachelor Degree Regulations to the credit point value of 36, provided that not less than 24 credit points shall be obtained in respect to graduate subjects taken from the Schedule of Graduate Subjects for the Honours Master of Science Degree.

(4) A candidate may not include in this graduate diploma programme any subject which the candidate has previously taken and had credited towards another degree or diploma of the University.

(5) Not all graduate subjects will necessarily be available during a given year.

(6) Unless otherwise determined by Council, the registration of a
candidate shall be terminated if that candidate fails subjects to the total value of 18 or more credit points.

2. GRADUATE DIPLOMA IN SCIENCE (STATISTICS)

The Graduate Diploma in Science (Statistics) shall be subject to the University requirements for the award of Graduate Diplomas together with the following conditions.

(1) A candidate shall undertake a course of graduate studies in Statistics (which may include some other relevant topics in Mathematics).

(2) Entry to the Graduate Diploma will normally be from a pass degree with an appropriate 3 year sequence in Mathematics, including Statistics, or, subject to the approval of Council on the recommendation of the Head of the Department of Mathematics, from a degree or diploma containing substantial study in an appropriate discipline.

(3) The graduate diploma will normally occupy two sessions of full-time study or four sessions of part-time study, and will involve:

the successful completion of a Mathematics Honours Seminar whose credit point value is 12, and the satisfactory completion of subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Department of Mathematics) (under certain circumstances, with the approval of the Head of the Department of Mathematics, a limited number of subjects may be chosen from the Schedule of Graduate Subjects (Department of Computing Science)) and the Mathematics Schedule of the Undergraduate Bachelor Degree Regulations to the credit point value of 36, provided that not less than 24 credit points shall be obtained in respect to graduate subjects taken from the Schedule of Graduate Subjects for the honours Master of Science Degree (Department of Mathematics).

(4) A candidate may not include in this graduate diploma programme any subject which the candidate has previously taken and had credited towards another degree or diploma of the University.

(5) Not all graduate subjects will necessarily be available during a given year.

(6) Unless otherwise determined by Council, the registration of a candidate shall be terminated if that candidate fails subjects to the total value of 18 or more credit points.

3. HONOURS MASTER OF SCIENCE

The degree of Honours Master of Science (MSc(Hons)) in the Department of Mathematics shall be subject to the University Honours Masters Degree Regulations together with the following conditions.

(1) A candidate shall undertake research, or a course of graduate studies and research in one or more of the following fields:


(2) Entry to the degree program will normally be from an Honours degree in Mathematics or from a pass degree with an appropriate 3 year sequence in Mathematics. Entry may also be approved by Council for candidates with the qualification of Diploma in Science (Mathematics or Statistics) on the recommendation of the Head of the Department of Mathematics.

(3) Where entry to the degree program has been approved from an Honours degree at a standard of Class II, Division 2 or a Diploma in Mathematics, it will normally occupy
two sessions of full-time study or four sessions of part-time study, and shall involve:

(a) a thesis embodying the results of investigation to the value of 48 credit points, or

(b) a minor thesis embodying the results of an investigation whose credit point value is 24 together with the satisfactory completion of subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Department of Mathematics) (under certain circumstances, with the approval of the Head of the Department of Mathematics, a limited number of subjects may be chosen from the Schedule of Graduate Subjects (Department of Computing Science)), to the value of 36 credit points.

(4) Where entry to the degree program has been approved from a degree at a standard below Honours Class II, Division 2, it will normally occupy four sessions of full-time study or eight sessions of part-time study, and shall involve:

(a) a thesis embodying the results of an investigation whose credit point value is 48 together with the satisfactory completion of the Mathematics Honours Seminar whose credit point value is 12 and the satisfactory completion of subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Department of Mathematics) (under certain circumstances, with the approval of the Head of the Department of Mathematics, a limited number of subjects may be chosen from the Schedule of Graduate Subjects (Department of Computing Science)) and the Mathematics Schedule of the Undergraduate Bachelor Degree Regulations to the credit point value of 36, provided that not less than 24 credit points shall be obtained in respect of graduate subjects taken from the Schedule of Graduate Subjects for the Honours Master of Science Degree, or

(b) a minor thesis embodying the results of an investigation whose credit point value is 24 together with the satisfactory completion of the Mathematics Honours Seminar whose credit point value is 12 and the satisfactory completion of subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Department of Mathematics) (under certain circumstances, with the approval of the Head of the Department of Mathematics, a limited number of subjects may be chosen from the Schedule of Graduate Subjects (Department of Computing Science)) and the Mathematics Schedule of the Undergraduate Bachelor Degree Regulations to the credit point value of 60, provided that not less than 48 credit points shall be obtained in respect of graduate subjects taken from the Schedule of Graduate Subjects for the Honours Master of Science Degree, or,

(c) satisfactory completion of a substantial written project whose credit point value is 12 together with the satisfactory completion of the Mathematics Honours Seminar whose credit point value is 12 and the satisfactory completion of subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Department of Mathematics) (under certain circumstances, with the approval of the Head of the Department of Mathematics, a limited number of subjects may be chosen from the Schedule of Graduate Subjects (Department of Computing Science)) and the Mathematics Schedule of the Undergraduate Bachelor Degree Regulations to the credit point value of 36, provided that not less than 24 credit points shall be obtained in respect of graduate subjects taken from the Schedule of Graduate Subjects for the Honours Master of Science Degree, or,
Regulations to the credit point value of 72, provided that not less than 60 credit points shall be obtained in respect of graduate subjects taken from the Schedule of Graduate Subjects for the Honours Master of Science Degree.

(5) A candidate may not include in this degree program any subject which the candidate has previously taken and had credited towards another degree or diploma of the University.

(6) All subjects chosen from either the Schedule of Graduate Subjects for the Honours Master of Science Degree or the Mathematics Schedule of the Undergraduate Handbook for inclusion in the degree program shall be subject to the approval of the Head of the Department of Mathematics.

(7) Not all graduate subjects will necessarily be available during a given year.

(8) Notwithstanding the regulations relating to the limitation of time for the degree of Honours Master, 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.

(9) Each candidate for the degree program under 3(c) and 4(c) shall be assigned a supervisor by the Head of the Department of Mathematics.

Where a candidate has enrolled in a degree program that includes either a thesis or a minor thesis, the Academic Senate shall appoint a supervisor on the recommendation of the Head of the Department of Mathematics.

(10) The graduate project referred to in 3(c) and 4(c) shall be assessed by two examiners appointed by the Head of the Department of Mathematics.

### SUBJECT DESCRIPTIONS

#### Subjects

For further details, see the postgraduate coursework co-ordinator: Professor D. Griffiths.

#### 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.

### MATH901 PERTURBATION METHODS

Dimensional analysis, order symbols, asymptotics, algebraic equations, differential equations, methods of renormalization, multiple scales, averaging, variation of parameters, strained parameters and matched asymptotic expansions.

### MATH902 SOLUTION OF DIFFERENTIAL EQUATIONS BY ONE - PARAMETER GROUPS

MATH903 MEAN PERIODIC FUNCTIONS

An introduction to L. Schwartz’s theory of mean periodic functions using the transform of J.P. Kahane. Applications to differential equations.

MATH911 COASTAL DYNAMICS

Generation and propagation of continental shelf waves of high and low frequency in homogeneous and non-homogeneous oceans, response of the ocean over a shelf to atmospheric disturbances, detection and measurement of shelf waves, dissipative influences, standing edge waves and their relation to beach geomorphology, modelling of physical marine systems.

MATH912 CONTINUUM MECHANICS AND FINITE ELASTICITY

The basic principles of continuum mechanics and the solved problems of finite elasticity. Equations for small deformations superimposed upon a state of finite strain and applications to stability problems. Linear elasticity. Selected problems from the theories of non-Newtonian fluids, plasticity and fibre-reinforced materials.

TEXTBOOK


MATH914 VISCOUS FLUIDS

Equations of motion of a viscous fluid, exact solutions, low Reynolds number flows, boundary layers, matched asymptotic expansions.

MATH915 DYNAMICS OF MULTIPHASE FLOW

Study of the motion of drops, particles and bubbles in viscous or inertia dominated flows. Two-phase flow in a porous medium.

REFERENCE


MATH916 HEAT CONDUCTION AND MOVING BOUNDARY PROBLEMS

Solutions of the heat equation, semi-infinite media, solution by Fourier series, solutions by heat-balance, classical moving boundary problems, large Stefan number expansions, integral formulation, bounds, integral equations, polynomial approximations, boundary fixing series solutions.

MATH917 ADVANCED NUMERICAL ANALYSIS


MATH918 NUMERICAL LINEAR ALGEBRA

Modern methods of solving the algebraic eigenvalue problem including the generalized problem $Ax = Bx$.

MATH919 SPARSE MATRIX TECHNIQUES

Solution of partial differential equations using finite difference and finite element techniques. Topics covered include formulation of finite difference and finite element approximations to partial differential equations, matrix properties of the approximate equations, methods of solution of the approximate equations.

MATH921 ADVANCED FUNCTIONAL ANALYSIS

Banach spaces, Linear Operators between Banach spaces, the Uniform Boundedness Principle, Closed graph theorem and open mapping theorem, Hahn-Banach theorem, applications to some of the following: Fourier series, integral equations, quadrature formulae, approximation theory, analytic function theory, spectral theory.
MATH922 HARMONIC ANALYSIS

The course will consist of a certain amount of Lebesque Integration Theory which will be applied to a discussion of various topics in the theory of Fourier Series. The generalization of Fourier Series to harmonic analysis on groups will also be considered.

MATH924 DISTRIBUTIONS

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 its dual space.

MATH925 TOPICS IN ALGEBRA

Partially ordered sets, lattices, modular lattices, Boolean Algebras and Boolean rings, orthomodular lattices.

MATH926 LOGIC AN SET THEORY

Primitive Recursive and recursive functions. Arithmetization, Godel's Theorem, Recursive undecidability. Axioms for set theory, ordinal numbers, equinumerocity, Hartog's theorem, the Axiom of Choice.

MATH927 COMBINATORY LOGIC

Introduction to Pure and Illature combinatory logic, relation to lambda-conversion, functionality, application to propositional and predicate calculus.

MATH928 ADVANCED MEASURE THEORY

Construction of outer, measures, Hausdorff measures, signed measures, Radon-Nikodym theorem, differentiation of measures.

MATH929 SOBOLEV SPACES AND APPLICATIONS

Definition and properties of Sobolev spaces, mollifiers, applications to partial differential equations and the calculus of variations.

MATH931 TIME SERIES

Prediction Theory; Linear models - identification, estimation, diagnostic checking; multivariate models.

MATH932 REPLACEMENT THEORY AND POPULATIONS


MATH933 OPTIMIZATION TECHNIQUES

Solution of non-linear optimisation problems. Topics covered include: unconstrained minimisation using Fletcher Powell and related techniques, the linear search problem, solution methods specific to least squares problems, linear constraints, penalty function methods, Huhn Tucker conditions, Langrange multipliers.

MATH934 REGRESSION ANALYSIS

Multiple and Polynomial Regression, Stepwise and Stagewise regression, Model Building, Regression models of not full rank, Relationship between regression analysis and analysis of variance models, Non-linear models, Detection of outliers.

MATH935 DECISION THEORY


MATH936 MULTIVARIATE ANALYSIS

Regression; the multivariate normal and Wishart distributions; Hotelling's $T^2$ and Wilks' $\Lambda$; multivariate analysis of variance.
MATH937 INFEERENCE
Transformations; distribution of quadratic forms; estimation techniques; hypothesis testing; sufficiency; asymptotic theory.

MATH938 EXPERIMENTAL DESIGN
The general linear model. Complete and incomplete block designs. The construction of optimal block designs. Factorial designs and fractional factorial designs. Response surface methodology.

MATH971 ADVANCED TOPICS IN APPLIED MATHEMATICS A
Topics will be selected from the areas of interest of staff members or visiting staff members of the department.

MATH972 ADVANCED TOPICS IN APPLIED MATHEMATICS B
Topics will be selected from the areas of interest of staff members or visiting staff members of the department.

MATH973 ADVANCED TOPICS IN PURE MATHEMATICS A
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.

MATH974 ADVANCED TOPICS IN PURE MATHEMATICS B
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.

MATH975 ADVANCED TOPICS IN STATISTICS A
Selection of topics from one or more of the following areas: Multivariate Statistics, Sequential Analysis, Selecting and Ordering of Populations, Statistical Inference, Statistical Quality Control and Non Parametric Statistics.

MATH976 ADVANCED TOPICS IN PROBABILITY AND OPERATIONS RESEARCH
Selection of topics from one or more of the following areas: Advanced Probability Theory, Branching Processes, Queueing Theory, Inventory Control, Dynamic and Stochastic Programming.

MATH977 ADVANCED TOPICS IN MATHEMATICS A
Topics will be selected from the areas of interest of staff members or visiting staff members of the Department.

MATH978 ADVANCED TOPICS IN MATHEMATICS B
Topics will be selected from the areas of interest of staff members or visiting staff members of the Department.

MATH979 ADVANCED TOPICS IN STATISTICS B
Selection of topics from one or more of the following areas: Multivariate Statistics, Sequential Analysis, Selecting and Ordering of Populations, Statistical Inference, Statistical Quality Control, and Non Parametric Statistics.

MATH991 PROJECT
12 credit points

MATH992 MINOR THESIS
24 credit points

MATH993 THESIS
48 credit points
MECHANICAL ENGINEERING

INTRODUCTION

The following postgraduate degrees are available:

1. Honours Master of Engineering by Coursework or Research
2. Doctor of Philosophy

The schedule of subjects available for the Masters degree is set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject MECH952 Thesis.

The specific requirements for the Masters degree and the descriptions of the subjects available are set out in the pages following the schedule of subjects.

CURRENT RESEARCH AREAS

The following areas of research are available to candidates undertaking the

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ENGINEERING

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<td>MECH906</td>
<td>Experimental and Analytical Modelling</td>
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<tr>
<td>MECH908</td>
<td>Computer Aided Design</td>
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<td>MECH909</td>
<td>Wastewater Treatment and Disposal</td>
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<tr>
<td>MECH911</td>
<td>Bulk Solids Handling Systems I</td>
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<tr>
<td>MECH912</td>
<td>Bulk Solids Handling Systems 2</td>
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<td>MECH913</td>
<td>Pneumatic and Hydraulic Transport of Bulk Solids</td>
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<td>Air Pollution</td>
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<td>MECH917</td>
<td>Refrigeration and Air Conditioning</td>
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<td>MECH919</td>
<td>Advanced Topics in Mechanical Engineering I</td>
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<tr>
<td>MECH920</td>
<td>Numerical Methods in Mechanical Engineering</td>
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<td>MECH921</td>
<td>Hydrodynamics</td>
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<td>MECH922</td>
<td>Coal Energy Technology I</td>
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<td>MECH923</td>
<td>Coal Energy Technology II</td>
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<td>MECH928</td>
<td>Finite Element Techniques in Mechanical Engineering</td>
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<td>MECH930</td>
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MECHANICAL ENGINEERING

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<td>MECH952</td>
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<tr>
<td>MECH999</td>
<td>Advanced Topics in Engineering</td>
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COURSE DESCRIPTION

1. HONOURS MASTER OF ENGINEERING

Entry under Section 10(2) - Graduates with an Honours Degree at a standard of Class II, Division 2 or higher

Students entering the course under Section 10(2) of the Honours Masters Degree Regulations are required to complete subjects from the Schedule of Graduate Subjects with an aggregate of not less than 48 credit points. Programs of study provided by the Department of Mechanical Engineering include a dissertation/thesis with a credit point rating of 24 (MECH951), or 48 (MECH952), depending on whether the course chosen is by a combination of dissertation and formal subject matter (6 subjects) or entirely by dissertation.

Entry under Section 10(3) - Graduates with a Degree below a standard of Honours Class II, Division 2

Students entering the course under Section 10(3) of the Honours Masters Degree Regulations are required to complete subjects with an aggregate of not less than 96 credit points. Study under this section will normally consist of the subject MECH999 Advanced Topics in Engineering (48 credit points) plus one of the programs provided under Section 10(2) (above).

SUBJECT DESCRIPTIONS

Each of the subjects described below, with the exception of MECH951, 952 and 999, are valued at 4 credit points and have a total contact of 3 hours per week for one session, although in certain cases they may be offered over two sessions.

Similar subjects offered by other departments will be acceptable for the Masters degree course in Mechanical Engineering subject to the approval by the Head of the Department and the Board of Research and Postgraduate Studies.

MECH905 ADVANCED DYNAMICS

Kinematics and dynamics of particles and rigid bodies in three-dimensional motion; fixed and moving reference frames; Newtonian dynamics; inertia tensor; Euler's equations of motion; general motion of gyroscopes and rigid bodies in space.

Calculus of variations; Functions and functionals; stationary values of integrals; Euler-Lagrange equations; constraints and Lagrange multipliers; fixed and variable end points; problems of Lagrange, Mayer and Bolza. Variational dynamics; Performance optimization; generalised co-ordinates; Lagrange equation; Hamilton's principle; impulsive motion; oscillatory motion.

MECH906 EXPERIMENTAL AND ANALYTICAL MODELLING

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
MECH908 COMPUTER AIDED DESIGN

The application of computers to design; standards for documentation and checking of computer aided engineering computations; computer simulation and optimising techniques.

MECH909 WASTEWATER TREATMENT AND DISPOSAL

Developments and trends in wastewater engineering; wastewater characteristics; physical unit operations; chemical unit processes; biological unit processes; design of facilities for physical and chemical treatment of wastewater; design of facilities for biological treatment of wastewater; advanced wastewater treatment; water-pollution control and effluent disposal; wastewater treatment studies; legal requirements.

MECH911 BULK SOLIDS HANDLING SYSTEMS 1

Flow patterns of bulk solids constrained by bins and hoppers; theory of flow; determination of flow properties; hopper design; bin loads; design of feeder.

MECH912 BULK SOLIDS HANDLING SYSTEMS 2

Further consideration concerning bin design; failure criteria 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.

MECH913 PNEUMATIC AND HYDRAULIC TRANSPORT OF BULK SOLIDS

Classification and selection of transport systems; flow patterns; pressure drop, minimum operating velocities; design parameters and examples; feeding and withdrawal methods.

MECH914 AIR POLLUTION

Elements of the air pollution problem; Origin and fate of air pollutants; Air pollution meteorology; Air pollution chemistry; Micrometeorology; Atmospheric diffusion; Combustion processes and the formation of gaseous and particulate pollutants; Air pollution control principles.

MECH915 NOISE POLLUTION

The behaviour of sound waves; Levels, decibels and spectra; Sound transducers; Field measurements; equipment and techniques; Data analysis; The measurement of power levels and directivity patterns of noise sources; Sound propagation outdoors. Sound in small spaces; Sound in large rooms; Acoustical properties of porous materials; Interaction of sound waves with solid structures; Noise operation in industry; Noise of gas flows: Damage-risk criteria for hearing; Criteria for noise in communities, buildings and vehicles.

Formulation of the optimal control problem: performance criteria; solution of the optimal control problem using calculus of variations, dynamic programming and the maximum principle; applications.

MECH917 REFRIGERATION AND AIR CONDITIONING

Theoretical aspect of refrigeration and air conditioning. Advanced treatment of topics selected from various systems. Design and calculations.

Review of matrix analysis; input-output systems; transfer matrices; system realisation; interactive graphics; diagonal dominance; Inverse Nyquist array; applications.

MECH919 ADVANCED TOPICS IN MECHANICAL ENGINEERING

There is no set syllabus for this subject. It is intended that it normally be offered on a specialised mechanical engineering topic given by members of the Department, visiting academic staff or engineering consultants.
MECH920 NUMERICAL METHODS IN MECHANICAL ENGINEERING

This subject involves 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.

MECH921 HYDRODYNAMICS

Applications of complex potential; unsteady fluid flows; foil theory and applications; cavitations and discontinuous flows; body hydrodynamics.

MECH922 COAL ENERGY TECHNOLOGY I

Coal formation, constituents, properties extraction, transportation, preparation and beneficiation, coal storage; stockpiling; blending and reclaiming; coal utilization, coal combustion for steam generation, combustion products, properties, ash collection and disposal, coal utilization economics.

MECH923 COAL ENERGY TECHNOLOGY

Carbonization, by-products; fluidized bed combustion, hybrid generation plants, cogeneration; co-production; generation plant simulation; coal conversion, pyrolysis, hydrogenation, gasification, liquefaction, by-products; MHD generation; economics of new coal technology; methane extraction; spontaneous combustion; advanced coal beneficiation.

MECH924 CONTINUUM MECHANICS

An introduction to tensor analysis, classical theory of elasticity, fluid mechanics, thermodynamics of solids, thermoelasticity, viscoelasticity, plasticity, finite deformation theory.

MECH928 FINITE ELEMENT TECHNIQUES IN MECHANICAL ENGINEERING


MECH929 ADVANCED TOPICS IN MECHANICAL ENGINEERING II

As for MECH919.

MECH930 MECHANICAL VIBRATION AND CONDITION MONITORING


MECH931 FRICTION, LUBRICATION AND WEAR


MECH933 SOLAR ENERGY

Principles and techniques applicable to the analysis and design of solar thermal energy systems. Solar radiation; transmission and absorption by collectors; analysis and design of collectors; energy storage; system thermal calculations; solar process economics.
MECH934 ADVANCED MANUFACTURING PROCESSES
Mechanics of Machining and Forming of Metals, Tool-life, Tool wear, Cutting Fluids, Surface Topography Chip Control in Machining, Machining Economics, Advanced Manufacturing Technologies: CAD/CAM, Robotic Assembly, and Designing for Manufacture.

MECH935 INTEGRATED MANUFACTURING SYSTEMS

MECH939 ADVANCED TOPICS IN MECHANICAL ENGINEERING III
As for MECH919.

MECH951 DISSERTATION
24 credit points.

MECH952 THESIS
48 credit points.

MECH999 ADVANCED TOPICS IN ENGINEERING
Double session subject; 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.
METALLURGY AND MATERIALS ENGINEERING

INTRODUCTION

The following postgraduate degrees are available:

1. Honours Master of Engineering by Research
2. Doctor of Philosophy

The schedule of subjects available for the Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject MATL990 Thesis.

The specific requirements for the Masters degrees and the descriptions of the subjects available are set out in the pages following the schedule of subjects.

CURRENT RESEARCH AREAS

Deformation and fracture at elevated temperatures of multiphase materials particularly high strength low alloy steels
Influence of hot deformation on the structure and properties of high strength low alloy steels
Solidification of eutectic alloys
Structure and properties of metallic glasses
Plastic stress-strain relationships for sheet metals deformed in biaxial tension
Strain hardening and friction phenomena in indentation tests
Analysis and structural interpretation of plastic behaviour
Fatigue of ferrous alloys
Crystallographic and metallographic properties of shape memory alloys
Development of metallographic methods for shape memory alloys
Development of galvanising alloys
Structures and properties of welded metals
Influence of welding variables in weldment integrity
Distortion of welded and galvanized structures
Metallurgy of culturally significant artefacts.
Metallography of commercially important alloys
Electron metallography of precipitation modes in ferrous alloys
Development of structures in metals by recrystallization with particular reference to rapid recrystallization
Ultra-rapid annealing of low-carbon steel
Structures and properties of welded metals
Particle size segregation in granular materials
Screening kinetics and permeability of particulate materials
Flow of granular materials from bins and hoppers
Drainage of liquids from blast furnace hearths
Reduction of iron ore aggregates
Gasification of carbonaceous materials
Kinetics of froth flotation
Fatigue and fatigue crack propagation in metals, ceramics and polymers
Fatigue-creep interactions
High temperature behaviour of engineering materials
Microstructural effects and material deterioration
Fracture
Lifetime prediction under complex stressing conditions
Structure and properties of ceramic materials
Ceramic coatings
Electrical properties of metal oxides
Molecular structure and properties of polymeric materials
Degradation of polymers
High temperature polymers

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ENGINEERING

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Poin</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATL990</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
<tr>
<td>MATL999</td>
<td>Advanced Topics in Materials</td>
<td>48</td>
</tr>
<tr>
<td>METL990</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

1. HONOURS MASTER OF ENGINEERING

Entry under Section 10(2) - Graduates with an Honours degree at a standard of Honours Class II, Division 2 or higher.

A candidate who enters under Section 10(2) of the Honours Masters Degree Regulations (i.e. who has qualified for the degree of Bachelor of Engineering with Honours at Class II, Division 2 or higher or the equivalent) will be required to undertake the subject MATL990 Major Thesis by a program either of full-time research for at least two academic sessions or of part-time research for at least four academic sessions and to submit a thesis embodying the results of that research. The subject is valued at 48 credit points. Also, entry may be approved for a candidate with the qualification of Diploma in Metallurgy and who has successfully completed any additional work specified by the Head of the Department of Metallurgy and Materials Engineering.

Entry under Section 10(3) - Graduates with a degree at a standard below Honours Class II, Division 2.

A candidate who enters under Section 10(3) of the Honours Masters Degree Regulations (i.e. who has qualified for the degree of Bachelor of Engineering at a standard below Honours Class II, Division 2 or the equivalent) will be required to undertake a program of work normally for either four academic sessions of full-time study or eight academic sessions of part-time study. The course comprises subjects totalling 96 credit points as follows:

MATL999 Advanced Topics 48 credit points in Materials
MATL990 Major Thesis 48 credit points

A program, approved by the Head of Department, of project work and studies of advanced topics in metallurgy selected from the fields of materials, extraction processes, refining processes, materials development, material properties, mechanical behaviour, processing and forming, mathematical methods and metallographic and other techniques.

SUBJECT DESCRIPTIONS

MATL990 MAJOR THESIS
48 credit points

MATL999 ADVANCED TOPICS IN MATERIALS
48 credit points

A program, approved by the Head of Department, of project work and studies of advanced topics in metallurgy selected from the fields of materials, extraction processes, refining processes, materials development, material properties, mechanical behaviour, processing and forming, mathematical methods and metallographic and other techniques.

METL990 MAJOR THESIS
48 credit points
MINING ENGINEERING

INTRODUCTION

The following postgraduate degrees are available:

1. Honours Master of Engineering by Coursework or Research
2. Doctor of Philosophy

The schedule of subjects available for the Masters degree are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject MINE952 Thesis.

The specific requirements for the Masters degree and the descriptions of the subjects available are set out in the pages following the schedules of subjects.

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
- Surface mining
- Mine simulation, planning and design
- Mine safety
- Geostatistics
- Coal strength
- Mainframe and microcomputer applications
- Expert systems development

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ENGINEERING

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINE901</td>
<td>Transportation of Minerals and Personnel</td>
<td>5</td>
</tr>
<tr>
<td>MINE902</td>
<td>Advanced Studies in Mining Engineering</td>
<td>5</td>
</tr>
<tr>
<td>MINE903</td>
<td>Simulation of Underground Mining Operations and Problems</td>
<td>5</td>
</tr>
<tr>
<td>MINE904</td>
<td>Rock Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>MINE905</td>
<td>Environmental Control in Mines</td>
<td>5</td>
</tr>
<tr>
<td>MINE906</td>
<td>Mining Engineering Techniques</td>
<td>5</td>
</tr>
<tr>
<td>MINE907</td>
<td>Gases in Mines</td>
<td>5</td>
</tr>
<tr>
<td>MINE908</td>
<td>Mine Fires and Explosions</td>
<td>5</td>
</tr>
<tr>
<td>MINE909</td>
<td>Mine Subsidence</td>
<td>5</td>
</tr>
<tr>
<td>MINE910</td>
<td>Water in Mines</td>
<td>5</td>
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<tr>
<td>MINE950</td>
<td>Thesis</td>
<td>8</td>
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<tr>
<td>MINE951</td>
<td>Thesis</td>
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<tr>
<td>MINE952</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
<tr>
<td>MINE999</td>
<td>Advanced Topics in Engineering</td>
<td>48</td>
</tr>
</tbody>
</table>

COURSE DESCRIPTION

1. 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:

(1) Honours Master of Engineering Degree by coursework.

(2) Honours Master of Engineering Degree by research thesis.

(3) Honours Master of Engineering Degree by combination of coursework and research thesis.
(a) The Honours Master of Engineering Degree by Coursework

The Honours Master of Engineering Degree by coursework is intended for engineers who have had some professional experience after graduating. It consists of lecture courses together with a project. The lectures and projects will be closely related where possible to the professional interest of those taking part.

(b) 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.

(c) The Honours Master of Engineering Degree by Combinations 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 introductions 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

Normally the course is of 1 year full-time or 2 years part-time study for those candidates who hold a Bachelor Degree with Honours at Class II, Division 2 or higher. Applicants holding a Bachelor degree of a standard less than Honours Class II, Division 2 will have their program approved by the Board of Research and Postgraduate Studies after consultation with the Head of the Department of Civil and Mining Engineering.

SUBJECT DESCRIPTIONS

Credit Points

Each of the subjects listed below, except where otherwise stated, has a credit point value of 5.

MINE901 TRANSPORTATION OF MINERALS AND PERSONNEL

Transport of minerals from initial winning to stockpile and to distribution points. Safety problems, hygiene, the environment. Transport of personnel, equipment, safety, regulations. Cost involved. Current research.

MINE902 ADVANCED STUDIES IN MINING ENGINEERING

Topics will be selected from those areas of Mining Engineering in which staff members or visiting staff members to the Department are engaged in active research.

MINE903 SIMULATION OF UNDERGROUND MINING OPERATIONS AND PROBLEMS

Including coal reserves, mining dimensions, surface effects, cost benefit
effects of operation and management and economic evaluation and feasibility of a mining enterprise.

MINE904 ROCK MECHANICS


MINE905 ENVIRONMENTAL CONTROL IN MINES

Energy considerations in mine ventilation; sources of heat in mines; control of atmospheric conditions in deep mines; fan design, installation, operation and safety; ventilation planning; computer applications.

MINE906 MINING ENGINEERING TECHNIQUES

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.

MINE907 GASES IN MINES

Natural occurrence and prediction of rockbursts; collection of mine gases; mine atmospheres, gases, dusts; fires, rescue and recover; computer analysis.

MINE908 MINE FIRES AND EXPLOSIONS


MINE909 MINE SUBSIDENCE


MINE910 WATER IN MINES

Sources of water in mines. Ground water hydrology for mining. Sump design and planning of drainage system for underground mining. Mining under waterlogged areas.

Investigation for mine drainage and dewatering in surface mining. Seepage control in tailing dams. Water quality control and disposal. Acid water mine drainage.

MINE950 THESIS

Double session; 8 credit points

MINE951 THESIS

Double session; 28 credit points

MINE952 MAJOR THESIS

Double session; 48 credit points

MINE999 ADVANCED TOPICS IN ENGINEERING

Double session; 48 credit points

Computer aided analysis and design; computer methods; concrete design; civil engineering materials; finite element techniques; hydrology; hydraulics; numerical techniques; reliability; rock mechanics; simulation; structural analysis and design; structural topology; town planning; traffic engineering; transportation; highway engineering; urban investigations; structural dynamics; continuum mechanics.
MULTICULTURAL STUDIES

INTRODUCTION

The following postgraduate degrees are available:

1. Master of Arts
2. Honours Master of Arts by Research
3. Doctor of Philosophy

The schedule of subjects available for the Masters degrees are set out below.

For the Honours Masters of Arts by Research and the Doctor of Philosophy degrees candidates enrol in the subject CMS999 Thesis.

The specific requirements for the Masters degrees and the descriptions of the subjects available are set out below.

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:

Ethnic Affairs
Aboriginal Affairs
Migration Issues
Occupational Health
Curriculum Development
Welfare Issues
Multicultural Education
Racism
Community Language
Theoretical considerations of class, ethnicity and gender
Workforce Structures
Ethnicity and Industrial Relations
Law and Culture

SCHEDULE OF GRADUATE SUBJECTS

MASTER OF ARTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS901</td>
<td>Issues in Multicultural Research</td>
<td>12</td>
</tr>
<tr>
<td>CMS902</td>
<td>Migration and Australia</td>
<td>12</td>
</tr>
<tr>
<td>CMS903</td>
<td>Social Welfare and Social Policy</td>
<td>12</td>
</tr>
<tr>
<td>CMS904</td>
<td>The Family and the Education System</td>
<td>12</td>
</tr>
</tbody>
</table>

HONOURS MASTER OF ARTS

CMS999 Thesis

COURSE DESCRIPTION

1. MASTER OF ARTS (MULTICULTURAL STUDIES)

This program has been developed to provide the student with the understanding and skills to work within a multicultural context. Through lectures, student-led seminars and practical projects, the opportunity is provided to develop a critical awareness of the context of the migration process in relation to Australian society. The program is based on components which allow for reflection on, and engagement in, innovation and social change in intercultural contexts. The Master of Arts is a four session part-time course, comprising 48 credit points, in the following subjects.

SUBJECT DESCRIPTIONS

CMS901 ISSUES IN MULTICULTURAL RESEARCH

Double session subject; 12 credit points
(4 contact hours per week: seminars)
Assessment: Seminar Papers
Designed to sensitise students to contemporary issues in carrying out research in the area of multicultural studies, including problems of funding and social relevance. Methodology and research practice will be studied through an examination of a variety of multicultural research projects and their reports and outcomes. Students may prepare a research submission as part of the subject and appropriate pilot studies may be undertaken.

CMS902 MIGRATION AND AUSTRALIA

Double session subject; 12 credit points (4 contact hours per week: seminars)
Assessment: Essay, Research Project and Seminar Papers.

A detailed history of migration to Australia in the modern era with major historical emphasis on the great postwar immigration. The major theoretical emphasis of this subject will be to assess how the Australian experience has shaped present-day usages of the concept of race and ethnicity and to relate these concepts to questions of social class and gender. The political economy of labour migration will be examined in relation to Australia's social and economic structures. A further theme will be the socio-economic situation and the social mobility of first and second generation migrants. Major theories of ethnicity and stratification will be examined.

CMS903 SOCIAL WELFARE AND SOCIAL POLICY

Double session subject; 12 credit points (4 contact hours per week: seminars)
Assessment: Essay, Research Project and Seminar Papers.

Charts the historical development of migrants as a welfare/social policy category from the postwar "assimilationist" policies of the Menzies era, through the development of "integrationism" in the late 1960s and "multiculturalism" in the 1970s and 1980s. The main emphasis will be on relating changes in migrant-oriented social policy to change in the composition, size and distribution of the migrant population as well as to changes in Australian economic and political structures. There will be detailed examination of specific policy initiatives, in particular the emergence of ethno-specific agencies and services. Current debates on policy directions will be examined.

CMS904 THE FAMILY AND THE EDUCATION SYSTEM

Double session subject; 12 credit points (4 contact hours per week: seminars)
Assessment: Essay, Research Project and Seminar Papers.

The first part of this subject examines the impact of migration on the family. Attention will be paid to induced changes in family structure and interpersonal relations and roles within the family. In this context there will be consideration of the role of the family in relation to mental health, usage of health and other social services, capital accumulation and the development of business networks. In the second half of the subject, there will be a detailed examination of factors affecting the relationship between the migrant family and the education system. The content and relevance of the concept of multicultural education will be explored including past and ongoing programs such as mother-tongue maintenance etc.

Students with particular interests may be permitted to substitute for CMS904 another 12 credit point postgraduate subject subject to approval by the Head of the Centre and Head of the department or school concerned.

CMS999 THESIS

48 credit points
PEACE AND WAR STUDIES

COURSE DESCRIPTION

GRADUATE DIPLOMA IN ARTS (PEACE AND WAR STUDIES)

The purpose of the Graduate Diploma in Arts (Peace and War Studies) is to provide in a recognised University course a means for graduates with limited acquaintance with Peace and War Studies to acquire competence in this area at a reasonably advanced level. The Graduate Diploma shall be subject to the University regulations 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 Schedule following the Bachelor Degree Regulations under 'Peace and War Studies' (refer Volume II of the Calendar). Of these at least 24 credit points 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 Chairperson of the Board of Peace and War Studies.

4. A full-time candidate shall normally complete the graduate diploma in one academic year, a part-time candidate in no less than two and no more than three academic years.

5. Admission to candidature for the Graduate Diploma is on the recommendation of the Chairperson of the Board of Peace and War Studies who shall assess the applicant's aptitude for sustained work in Peace and War Studies at a reasonably advanced level.
PHILOSOPHY

INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Arts
2. Master of Arts (Professional and Applied Ethics)
3. Honours Master of Arts by Research or Coursework
4. Doctor of Philosophy

For the Graduate Diploma subjects are selected from the undergraduate schedules of subjects set out in Volume II of the Calendar. Please refer to the information about this diploma on the following pages.

The schedules of subjects available for the Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject PHIL999 Thesis.

The specific requirements for the Masters degrees, the diploma and the descriptions of the subjects available are set out in the pages following the schedule of subjects.

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:

Aesthetics
Imagination and aesthetic appreciation.
The Aesthetics of Benedetto Croce.

Epistemology and Philosophy of Science
Probability and its theoretical interpretation.
Induction.
The Logic of explanation in the natural and social sciences.
The philosophy of biology.

History of Philosophy
Kant's critical philosophy.
Cartesian studies.

Logic (Technical)
History of logic.
Modal Logic.

Metaphysics
Personal Identity.
Essentialism.

Moral Philosophy
Ethical relativism.
Responsibility, with reference to action, motive and intention, praise and blame.
Issues arising from the Catholic doctrine of double effect.
The morality of killing.

Philosophical Logic
Identity and criteria.
Philosophy of language.
Theories of reference and existence.

Philosophy of Culture
The idea of social culture.
Pluralism and multiculturalism.

Philosophy of Law and Jurisprudence
The basis of legal and political obligation.
The characterization and evaluation of support in judicial decision making.

Philosophy of Mind
The Analogy Theory of Thinking.
Language and rationality.
The character of intentional action and its casual element.

Philosophy of Religion

Political Philosophy
Marxism.
Anarchism.
The liberal theory of the state.
The ethics of self-determination and secession.
Morality and international conflict.
The philosophy of private enterprise.
The concept of privacy and the right to privacy.

Social Philosophy
Issues arising from claims to particular rights, especially rights to life, freedom and autonomy.
SCHEDULE OF GRADUATE SUBJECTS

MASTER OF ARTS (PROFESSIONAL AND APPLIED ETHICS)

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<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL901</td>
<td>Organizational Ethics</td>
<td>12</td>
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<tr>
<td>PHIL902</td>
<td>Ethical Analysis</td>
<td>12</td>
</tr>
<tr>
<td>PHIL903</td>
<td>Comparative and Critical Professional Ethics</td>
<td>12</td>
</tr>
<tr>
<td>PHIL904</td>
<td>Directed Study in Applied Ethics</td>
<td>12</td>
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</table>

HONOURS MASTER OF ARTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL913</td>
<td>Advanced Philosophical Topics 913</td>
<td>48</td>
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<tr>
<td>PHIL923</td>
<td>Minor Thesis</td>
<td>24</td>
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<tr>
<td>PHIL933</td>
<td>Advanced Logic</td>
<td>6</td>
</tr>
<tr>
<td>PHIL943</td>
<td>Advanced Political Philosophy</td>
<td>6</td>
</tr>
<tr>
<td>PHIL953</td>
<td>Advanced Philosophy of Value</td>
<td>6</td>
</tr>
<tr>
<td>PHIL963</td>
<td>Advanced Epistemology and Philosophy of Science</td>
<td>6</td>
</tr>
<tr>
<td>PHIL973</td>
<td>Philosophical Problems</td>
<td>6</td>
</tr>
<tr>
<td>PHIL983</td>
<td>Contemporary Issues in Philosophy</td>
<td>6</td>
</tr>
<tr>
<td>PHIL999</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

COURSE DESCRIPTIONS

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 regulations 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. Provided that, subject to the joint approval of the Heads of the Departments of Philosophy and Education, or of Philosophy and Science and Technology Studies, up to 24 credit points at 200-level and/or 300-level may be taken from subjects listed in the General or the Arts Schedules under 'Education' and/or Science and Technology Studies. Under no circumstances may the total number of subjects credited towards the Graduate Diploma in Philosophy taken from subjects other than those listed under 'Philosophy' total more than 24 credit points.

(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 (PROFESSIONAL AND APPLIED ETHICS)

The purpose of this program is to provide people who are not primarily philosophers with practical skills and a deep background knowledge in addressing ethical issues that arise as a matter of course in the professions, business, and social policy formation. The aim is to produce graduates who are (a) sensitive to the ethical dimensions of general policy questions and concrete applications as they arise; (b) skilled in formulating clearly the ethical issues involved and in distinguishing relevant from irrelevant, and good from bad arguments; (c) knowledgeable in relation to the major available ethical theories, their strengths and weaknesses; and (d) capable of maintaining a continuing understanding of developments and controversies at the frontiers of ethics.

Candidature is open to:

(1) holders of a Bachelor of Arts (Hons) with pure or joint honours in Philosophy;

or:

(2) holders of a Bachelor's degree (pass or honours) in any field, who have also completed a Graduate Diploma in Philosophy, including a clear pass or better in PHIL206 Moral Problems, and either PHIL251 Ethics A, or PHIL301 Ethics B;

or:

(3) others who satisfy the Board of Research and Postgraduate Studies of comparable professional standing or attainments.

Candidates shall successfully complete a program of 48 credit points, comprising:

PHIL901 Organizational Ethics (Annual or Summer - 12 credit points)
PHIL902 Ethical Analysis (Annual or Summer - 12 credit points)
PHIL903 Comparative and Critical Professional Ethics (Annual or Summer - 12 credit points)
PHIL904 Directed Study in Applied Ethics (Annual or Summer - 12 credit points).

3. HONOURS MASTER OF ARTS

(a) 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 satisfactorily complete PHIL913 Advanced Philosophical Topics (48 credit points) prior to enrolling in PHIL999.

(b) Honours Master of Arts by Coursework

The purpose of the Honours Master of Arts by Coursework in Philosophy is to enable suitably qualified graduates (i.e. graduates with Second Class Honours or its equivalent or who have satisfactorily completed PHIL913) to undertake at advanced level coursework in areas which were not included at the appropriate level, in their undergraduate program, while pursuing a minor research project. Candidates must take subjects to the total value of 24 credit points from the schedule of graduate subjects in Philosophy, together with PHIL923 Minor Thesis.

SUBJECT DESCRIPTIONS

PHIL901 ORGANISATIONAL ETHICS

Annual - 12 credit points
One 2 hour seminar per week.
Assessment: 50 per cent participation in practical individual and group tasks, and 50 per cent 4 written exercises or reports.

Organizations (firms, corporations, local, state, and national governments) as well as individuals are subject to ethical appraisal. The aim of this subject is to investigate criteria for the moral evaluation of the performance of organizations, and to consider possible conflicts that may arise between an individual's personal views of right and wrong, and the demands or expectations...
of an organization of which he or she is an agent.

PHIL902 ETHICAL ANALYSIS

Annual - 12 credit points
One two hour seminar per week
Assessment: 50 per cent participation in practical individual and group tasks, and 50 per cent 4 written exercises or reports.

The aim of this subject is to take up current policy debates as reported in the media (e.g. in relation to in vitro fertilization, electronic eavesdropping, affirmative action, advertising and persuasion) and to develop skills in subjecting them to ethical analysis. Special attention will be given to skills in formulating the ethical implications of alternative ways of formulating them, and presenting them in ways that are clear, informative, and accurate to people untrained in ethics.

PHIL903 COMPARATIVE AND CRITICAL PROFESSIONAL ETHICS

Annual - 12 credit points
Assessment: 50 per cent participation in individual and group practical exercises, and 50 per cent 4 written exercises or reports.

The aim of this subject is to compare and critically analyse received codes of professional ethics in a number of professions and occupations (e.g. law, medicine, journalism, advertising, accountancy). Questions to be considered include what defines a profession, and by what standards should a code of professional ethics be assessed? How might some of the existing codes of professional ethics be improved, and how should a code of professional ethics be enforced? Are there any occupations for which a code of professional ethics should be introduced?

PHIL904 DIRECTED STUDY IN APPLIED ETHICS

Annual - 12 credit points
Assessment - a major essay of no more than 5,000 words.

The objective of this subject is to encourage each student to identify and articulate a problem with significant ethical dimensions as it arises in his or her work experience, or as it arises in some current area of public policy controversy. The student will work under the supervision of a member of the Department, and will aim to produce a detailed analysis of the problem, an account of how it would be resolved in terms of a selection of major competing ethical theories, and the student's own preferred solution, with its justification. The essay will be expected to exhibit analytical rigour, sensitivity to the nuances of the problem, a good understanding of the major rival ethical theories, and the capacity to explain the issues and recommended solutions in a way which is clear to a person unfamiliar with the technicalities of ethical theory.

PHIL913 ADVANCED PHILOSOPHICAL TOPICS 913

Double session subject; 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 under section 6(2) of the Honours Masters Degree Regulations.
Assessment: Essays and three hour 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.

PHIL923 MINOR THESIS

Double session; 24 credit points.
PHIL933 ADVANCED LOGIC

Double session subject; 6 credit points. Variable combination of seminars, lectures and lecture-discussions.
Assessment: One three-hour examination.

A study of issues in political and/or social philosophy.

PHIL953 ADVANCED PHILOSOPHY OF VALUE

Double session subject; 6 credit points. Variable combination of seminars, lectures and lecture-discussions.
Assessment: One three-hour examination.

A study of issues in moral philosophy, and/or aesthetics.

PHIL963 ADVANCED EPISTEMOLOGY AND PHILOSOPHY OF SCIENCE

Double session subject; 6 credit points. Variable combination of seminars, lectures and lecture-discussions.
Assessment: One three-hour examination.

A study of issues to do with the theory of knowledge.

PHIL973 PHILOSOPHICAL PROBLEMS

Double session subject; 6 credit points. Variable combination of seminars, lectures and lecture-discussions.
Assessment: One three-hour examination.

A study of a selection of traditional philosophical problems.

PHIL983 CONTEMPORARY ISSUES IN PHILOSOPHY

Double session subject; 6 credit points. Variable combination of seminars, lectures and lecture-discussions.
Assessment: One three-hour examination.

A study of current controversies within one selected field of contemporary philosophy.

PHIL999 MAJOR THESIS

Double session subject; 48 credit points.
The following postgraduate degrees are available:

1. Master of Science (Technical Administration)
2. Honours Master of Science by Research
3. Doctor of Philosophy

The schedule of subjects available for the Masters degrees is set out on the following pages.

For the Doctor of Philosophy degree candidates enrol in the subject PHYS999 Thesis.

The specific requirements for the Masters degree and the descriptions of the subjects available are set out in the pages following the schedule of subjects.

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.
- Experimental Nuclear Physics.
- Laser Spectroscopy.
- Scattering of Light by Solids.
- Solid State Spectroscopy of Impurities in Semiconductors.
- Studies of Electronic Wave Functions in Solids.

SCHEDULE OF GRADUATE SUBJECTS

MASTER OF SCIENCE (TECHNICAL ADMINISTRATION)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
<th>Session Offered</th>
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<td>Accounting for Managers</td>
<td>6</td>
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<tr>
<td>MGMT911</td>
<td>Organizational Behaviour</td>
<td>6</td>
<td>1</td>
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<tr>
<td>STS931</td>
<td>Risk Assessment, Health &amp; Safety</td>
<td>12</td>
<td>2</td>
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<tr>
<td>PHYS921</td>
<td>Applied Physics Report</td>
<td>18</td>
<td>3</td>
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<tr>
<td></td>
<td>Options (one of the following)</td>
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<tr>
<td></td>
<td>MGMT952 Production &amp; Operations Management</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MGMT912 Organization Structure &amp; Control</td>
<td>6</td>
<td>2</td>
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<tr>
<td></td>
<td>STS922 The Dynamics of Technological Change</td>
<td>12</td>
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<td>MGMT976 Competitive Analysis</td>
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<td>Second Year Compulsory</td>
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<td></td>
<td>MGMT922 Marketing I</td>
<td>6</td>
<td>1</td>
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<tr>
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<td>MGMT940 Innovation and Entrepreneurship</td>
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<td>MGMT945 Technology Enterprise Project</td>
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<td>STS937 The Management of Technology</td>
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<td></td>
<td>PHYS990 Applied Physics Research Project</td>
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<td>PHYS910 Advanced Project in Physics A</td>
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<td></td>
<td>PHYS946 Advanced Solid State Physics</td>
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<td></td>
<td>PHYS947 Special Topics in Physics A</td>
<td></td>
<td>6</td>
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<tr>
<td></td>
<td>PHYS960 Advanced Project in Physics B</td>
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<tr>
<td></td>
<td>PHYS997 Special Topic in Physics B</td>
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<tr>
<td></td>
<td>PHYS999 Major Thesis</td>
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<td>48</td>
</tr>
</tbody>
</table>
1. MASTER OF SCIENCE (TECHNICAL ADMINISTRATION)

Introduction and Objectives

Three major career routes are generally followed by Physics graduates: (i) the academic/research route involving an Honours year followed by a PhD research programme, (ii) teaching, requiring a subsequent Dip.Ed. course, and (iii) direct entry into manufacturing, service industry or government employment.

The Master of Science (Technical Administration) MSc(Tech.Admin) course is aimed at category (iii) graduates. While many physicists begin their industrial careers "at the bench", subsequent progression up the career ladder generally involves the assumption of considerable managerial responsibility. Both their functional efficiency and their career prospects would be enhanced by them gaining familiarity with business concepts, language, and skills early in their careers. The course is also suitable for physicists in government laboratories desiring management training.

The objectives of this proposed degree are therefore two-fold, namely to provide Physics graduates with:

(1) a sound grounding in the commercial and business studies area (management, marketing, finance, communication, etc.), as well as in the broader social and environmental implications of technology; and

(2) a greater insight into the industrial/commercial aspects of Physics via a major literature survey and a research project in applied physics.

Close integration of the two strands will be achieved by the use of physics based case studies in relevant management subjects, and by the use of the applied research project in PHYS970 as the basis for the hypothetical enterprise for which a business plan is developed in MGMT945.

Structure of the Course

This is a 96 credit point course extending over two years for full-time students, and four years for part-time students.

It contains two complementary and integrated strands:

(i) 42 credit points of graduate Physics subjects, namely PHYS921 and PHYS970, the latter of which involves an applied research project and minor thesis;

(ii) 54 credit points of graduate subjects covering topics in management, finance, marketing, communication, technology, and innovation. These subjects are selected from the Schedule given below for the MSc(Tech.Admin) degree, and include a 42 credit point core taught by the Departments of Management (24 credit points), Science and Technology Studies (12 credit points), and Accountancy (6 credit points).

2. HONOURS MASTER OF SCIENCE

The course will be made up of subject selected from those described below, in accordance with the Honours Masters Degree Regulations together with the following conditions:

(1) Entry to the degree program will normally be from an Honours degree in 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, will do the 48 credit point PHYS999 Major Thesis.

(3) Students entering with a degree below Honours Class Division 2 will do the 48 credit point PHYS999 and a 48 credit point combinations of subjects chosen from the remaining Graduate Subjects below and the Bachelor Degree Schedule. These subjects must be approved by the Chairman of the Department of Physics and will normally be
chosen in consultation with him/her.

SUBJECT DESCRIPTIONS

PHYS910 ADVANCED PROJECT IN PHYSICS A

First session subject; 6 credit points
42 hrs laboratory
Assessment: This will be based on the satisfactory operation of the completed experiments and the adequacy of the written descriptions of the experiments.

The student will be required to design and construct several self-contained experiments at the level of those encountered in PHYS9309 Advanced Experimental Physics. The number and type shall be determined by two members of the academic staff of the Department of Physics.

PHYS921 APPLIED PHYSICS REPORT

Double session; 18 credit points (120 hrs tutorials)
Assessment: Substantial report and seminar

Under the supervision of staff appointed by the Head, Department of Physics, students will survey the literature, prepare a report, and present a seminar on a topic of relevance to industry and technology, chosen by the supervising staff. Topics may be selected from areas related to Solid State Physics, Nuclear Physics, Laser Spectroscopy and Image Processing Analysis.

PHYS946 ADVANCED SOLID STATE PHYSICS

Double Session; 6 credit points
Assessment: Based on assigned problems, 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.

PHYS947 SPECIAL TOPIC IN PHYSICS A

First session subject; 6 credit points
(14 hrs seminars and 14 hrs tutorials)

A special topic to be selected from any area of physics. The selection to be made by the Head of the Department in consultation with the Departmental Assessment Committee.

PHYS960 ADVANCED PROJECT IN PHYSICS B

Second session subject; 6 credit points
42 hrs laboratory
Assessment: This will be based on the satisfactory operation of the completed experiments and the adequacy of the written descriptions of the experiments.

The student will be required to design and construct several self-contained experiments at the level of those encountered in PHYS9309 Advanced Experimental Physics. The number and type shall be determined by two members of the academic staff of the Department of Physics.

PHYS990 APPLIED PHYSICS RESEARCH PROJECT

Single or double session; 24 credit points
Assessment: Minor Thesis

Under the supervision of staff appointed by the Head, Department of Physics, the student will undertake a research project and present a minor thesis and a seminar on an Applied Physics topic chosen by the supervising staff. This subject will be taken in conjunction with MGMT945 Technology Enterprise Project, where new techniques or instrumentation developed in a research project will form the hypothetical (or actual) basis of the enterprise for which a business plan is developed. Research topics will normally
be in the same area as surveyed in PHYS921.

PHYS997 SPECIAL TOPIC IN PHYSICS B

Second session subject; 6 credit points (14 hrs seminars and 14 hrs tutorials)
Pre-requisite, Co-requisites and Assessment: Same as for PHYS947

A special topic to be selected from any area of physics. The selection to be made by the Head of the Department in consultation with the Departmental Assessment Committee.

PHYS999 MAJOR THESIS

Double session subject; 48 credit points
INTRODUCTION

The following postgraduate degrees are available in 1989:

1. Master of Arts (International Relations)
2. Honours Master of Arts by Research
3. Doctor of Philosophy

Further developments, especially of coursework offerings, in Politics are expected.

The schedule of subjects available for the Master degree is set out below.

For the Honours Master of Arts degree and the Doctor of Philosophy degree candidates enrol in the subject POL931 Major Thesis.

The specific requirements for each degree and the descriptions of the subjects available are set out below.

CURRENT RESEARCH AREAS

Areas in which research can be supervised in 1989 include aspects of the following:

- Australian Politics, including Australian foreign policy
- Comparative Politics
- International Relations
- Politics of Development/Underdevelopment
- South Pacific Politics
- Political Theory

SCHEDULE OF GRADUATE SUBJECTS

MASTER OF ARTS (INTERNATIONAL RELATIONS)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL914</td>
<td>Power and the Modern State</td>
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HONOURS MASTER OF ARTS

<table>
<thead>
<tr>
<th>Number</th>
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<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>POL931</td>
<td>Major Thesis</td>
<td>48</td>
</tr>
</tbody>
</table>

COURSE DESCRIPTION

1. MASTER OF ARTS (INTERNATIONAL RELATIONS)

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 programme is expected to be especially useful to students with relevant, prior, professional experience, including - but not only - diplomats.

The programme is interdisciplinary in nature, focussing on international politics, economics, management, and law and diplomatic practice, in particular, but allowing both for specialisation within the programme as well as for the inclusion of area studies, languages, and other relevant subjects, in accordance with students' needs.

A detailed brochure on the programme can be obtained from the Department of History and Politics by early 1989. Enquiries about the programme are welcome and should be addressed to the Head of the Department.

SUBJECT DESCRIPTIONS

POL914 POWER AND THE MODERN STATE

First Session: 12 credit points (3 hours per week, lectures and tutorials)

Assessment: 7,500 words in essays and tutorial papers.
The subject examines perspectives on the modern state, including political, economic, sociological and philosophical views. Its aim is to understand the problems that confront the state in modern industrial societies in the context of conceptions of its origins and ends. Writers dealt with include Weber, Lenin, Gramsci, Foucault and Habermas, although reference is also made to classical understandings of the purpose and role of the state. Particular attention is paid to how the power of the state is or can be made legitimate, and to the problem of violence (the state monopoly of violence, fascism, war, and revolution) in the works dealt with.

TEXTBOOK


POL931 MAJOR THESIS

Full year: 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.
INTRODUCTION

The following postgraduate degrees are available:

1. Graduate Diploma in Arts
2. Honours Master of Arts
   - Applied Psychology
   - Clinical Psychology
3. Honours Master of Arts by Research
4. Doctor of Philosophy (Clinical Psychology)
5. Doctor of Philosophy

The schedule of subjects available for each of these degrees are set out on the following pages.

For the Doctor of Philosophy degree and the Honours Master of Arts by Research degree candidates enrol in the subject PSYC999 Major Thesis.

The specific requirements for each degree and diploma and the descriptions of the subjects available are set out in the pages following the schedule of subjects.

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:

Action research and organisational development in industry and other organisations

SCHEDULE OF GRADUATE SUBJECTS

GRADUATE DIPLOMA IN ARTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<tr>
<td>PSYC952</td>
<td>Theory Seminar</td>
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<tr>
<td>PSYC953</td>
<td>Health Psychology</td>
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</tr>
<tr>
<td>PSYC954</td>
<td>Psychology and Women</td>
<td>8</td>
</tr>
<tr>
<td>PSYC955</td>
<td>Psychology of Information Processing*</td>
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<tr>
<td>PSYC956</td>
<td>Occupational Psychology</td>
<td>8</td>
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<tr>
<td>PSYC957</td>
<td>Behavioural Medicine*</td>
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<td>PSYC958</td>
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### GRADUATE DIPLOMA IN ARTS (Cont’d)

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<td>PSYC959</td>
<td>Advanced Course in Developmental Psychology*</td>
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<tr>
<td>PSYC960</td>
<td>Biofeedback*</td>
<td>8</td>
</tr>
<tr>
<td>PSYC961</td>
<td>Topics in Data Analysis</td>
<td>8</td>
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<tr>
<td>PSYC962</td>
<td>Selected Topics in Conditioning and Learning*</td>
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<tr>
<td>PSYC963</td>
<td>Research Project</td>
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<tr>
<td>PSYC964</td>
<td>Introduction to Applied Skills in Psychology</td>
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* Not offered in 1989.

### HONOURS MASTER OF ARTS

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<td>PSYC901</td>
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<td>PSYC902</td>
<td>Psychology Report A</td>
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<td>PSYC903</td>
<td>Psychology Report B</td>
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<td>PSYC904</td>
<td>Psychology Report C</td>
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<td>PSYC911</td>
<td>Principles of Clinical Psychology*</td>
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<td>PSYC912</td>
<td>Interpersonal Skills for Clinical Psychologists*</td>
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<td>PSYC913</td>
<td>Assessment for Clinical Psychologists*</td>
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<td>PSYC924</td>
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<td>PSYC925</td>
<td>Child Clinical Psychology</td>
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<td>PSYC928</td>
<td>Clinical Neuropsychology</td>
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<td>PSYC929</td>
<td>Psychotherapy with Individuals and Groups</td>
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<td>PSYC940</td>
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<td>PSYC952</td>
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<td>PSYC957</td>
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<td>PSYC959</td>
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<td>PSYC960</td>
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<td>PSYC961</td>
<td>Topics in Data Analysis</td>
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<td>PSYC962</td>
<td>Selected Topics in Conditioning and Learning*</td>
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<td>PSYC963</td>
<td>Research Project</td>
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<tr>
<td>PSYC964</td>
<td>Introduction to Applied Skills in Psychology</td>
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<td>PSYC989</td>
<td>Research Project</td>
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<tr>
<td>PSYC999</td>
<td>Major Thesis</td>
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* Not offered in 1989.

### DOCTOR OF PHILOSOPHY (CLINICAL PSYCHOLOGY)

<table>
<thead>
<tr>
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<tr>
<td>PSYC927</td>
<td>Clinical Research Methods</td>
<td>8</td>
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<tr>
<td>PSYC999</td>
<td>Thesis</td>
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</tbody>
</table>
1. GRADUATE DIPLOMA IN ARTS

The Graduate Diploma in Arts (Psychology) is available to graduates with the degree of Bachelor with at least 24 credit points in 300-level Psychology subjects, or their equivalent. The Graduate Diploma enables pass students to update or extend their psychological studies into an A.P.S. accredited fourth year.

It normally occupies two sessions of full-time study or four sessions of part-time study. Admission to the program must be through recommendation by the Head of the Department of Psychology. It is subject to the University regulations governing the award of Graduate Diploma.

The Graduate Diploma requires the successful completion of 48 credit points in:

1. the subject PSYC964 Introduction to Applied Skills in Psychology (8 credit points)
2. the subject PSYC963 Research Project (8 credit points)
3. at least 32 other credit points in psychology at the 900-level, chosen from the following:

PSYC952  Psychology Honours Theory Seminar
PSYC953  Health Psychology
PSYC954  Psychology and Women
PSYC955  Psychology of Information Processing
PSYC956  Occupational Psychology
PSYC957  Behavioural Medicine
PSYC958  Human Communication
PSYC959  Advanced Course in Developmental Psychology
PSYC960  Biofeedback
PSYC961  Topics in Data Analysis
PSYC962  Selected Topics in Conditioning and Learning

2. HONOURS MASTER OF ARTS

(a) Applied Psychology

The degree of Honours Master of Arts (MA(Hons)) by coursework in the field on Applied Psychology will be subject to the Honours Masters Degree Regulations together with the following conditions:

1. Entry to the degree program will normally be from an Honours degree in psychology or from a pass degree with a three year (or its part-time equivalent) sequence in psychology.

2. Where entry to the degree is from an Honours degree at a standard of Class II, Division 2, the program will normally involve two sessions of full-time study or four sessions of part-time study. Applicants with Honours in Psychology will be eligible for entry to the program only if some portion of their Honours work is considered by the Head of the Department of Psychology to be in the field of applied psychology and if they are also found, by the Head of the Department to have had the equivalent of one year's full-time experience in an appropriate field. The program for such candidates will require the successful completion of 48 credit points from the Schedule of Graduate Subjects in Psychology as follows:

(a) 24 credit points in subjects:
PSYC911 Principles of Clinical Psychology; PSYC912 Interpersonal Skills for Clinical Psychologists; and PSYC913 Assessment for Clinical Psychologists;

(b) 16 credit points in two areas of specialization, that is two of
PSYC923 Clinical Psychology; PSYC924 Organizational Psychology; PSYC925 Child Clinical Psychology; or any PSYC92X subject; and

(c) 8 credit points in a Supervised Practica: PSYC937 Practicum I and PSYC938 Practicum 2; or any PSYC93X subject.
3. Where entry to the degree program is from a degree at a standard below Honours Class II, Division 2, it will normally involve four sessions of full-time study or 8 sessions of part-time study. It will require the successful completion of 96 credit points from the Schedule of Graduate Subjects in Psychology as follows:

(i) 24 credit points of core subjects: PSYC911 Principles of Clinical Psychology; PSYC912 Interpersonal Skills for Clinical Psychologists; and PSYC913 Assessment for Clinical Psychologists;

(ii) 16 credit points in two areas of specialization, that is, two of PSYC923 Clinical Psychology; PSYC924 Organizational Psychology; PSYC925 Child Clinical Psychology or any PSYC92X subject.

(iii) at least 16 credit points in Supervised Practicums in PSYC937 Practicum 1 and PSYC938 Practicum 2, or any PSYC93X subject.

(iv) 24 credit points in the subject PSYC989 Research Project;

and

(v) the remaining 16 credit points to be made up from 300-level, 400-level or graduate subjects in psychology or related disciplines and/or more practicum experience in other practicum areas or in PSYC939; other Practicum Work and/or individual work in PSYC901 Psychology Report.

(b) Clinical Psychology

The degree of Honours Master of Arts in Clinical Psychology will be subject to the Honours Master Degree Regulations together with the following conditions.

1. Entry to the MA(Hons) degree programme will be from an Honours degree in Psychology at a standard of Class II, Division 2 or its equivalent.

2. The programme will involve four sessions of full-time study or their equivalent part-time. Candidates will be considered eligible for entry to the programme only if some of their earlier preparatory work is considered to be relevant to Clinical Psychology. The programme for such candidates will require the successful completion of at least 98 credit points from the Schedule of Graduate Subjects in Psychology as follows:

(a) 30 credit points in basic subjects: PSYC911 Principles of Clinical Psychology; PSYC912 Interpersonal Skills for Clinical Psychologists; PSYC913 Assessment for Clinical Psychologists; and PSYC914 Research Skills for Clinical Psychologists.

(b) 32 credit points in four areas of advanced study, that is, PSYC923 Clinical Psychology; PSYC925 Child Clinical Psychology, PSYC928 Clinical Neuropsychology; and PSYC929 Psychotherapy for Individuals and Groups;

(c) at least 12 credit points in supervised practicums PSYC937 Practicum 1 and PSYC938 Practicum 2;

(d) 24 credit points of independent but supervised research in the subject PSYC989 Research Project.

3. DOCTOR OF PHILOSOPHY (CLINICAL PSYCHOLOGY)

To qualify for entry candidates must have an Honours Bachelor Degree of at least II(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 D.C.P. candidates will require successful completion of:
(1) 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 its evaluation will contribute fifty percent toward the final assessment;

(2) at least 76 credit points from the Schedule of Graduate subjects in Psychology as follows:

A. 24 credit points in the following subjects:

- **PSYC911 Principles of Clinical Psychology**
- **PSYC912 Interpersonal Skills for Clinical Psychology**
- **PSYC913 Assessment in Clinical Psychology**

B. 32 credit points made up from the following subjects:

- **PSYC923 Clinical Psychology**
- **PSYC925 Child Clinical Psychology**
- **PSYC928 Clinical Neuropsychology**
- **PSYC929 Psychotherapy with Individuals and Groups**

C. at least 12 credit points in supervised practical clinical experience.

D. at least 8 credit points in **PSYC927 Clinical Research Methods coursework**.

Coursework will be graded in the same manner as coursework completed by candidates for the degree of M.A.(Honours) in Clinical Psychology.

These courses are described elsewhere in this calendar.

Award of the degree of Doctor of Philosophy (Clinical Psychology) is governed by the university regulations for the award of Doctor of Special Areas* as described elsewhere.

**SUBJECT DESCRIPTIONS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
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**PSYC901 PSYCHOLOGY REPORT A**

6 credit points

Refer to Department for details

**PSYC902 PSYCHOLOGY REPORT A**

6 credit points

Refer to Department for details

**PSYC903 PSYCHOLOGY REPORT B**

6 credit points

Refer to Department for details

**PSYC904 PSYCHOLOGY REPORT C**

6 credit points

Refer to Department for details

**PSYC901 PRINCIPLES OF CLINICAL PSYCHOLOGY**

Double session; 8 credit points (52 hours)
Chairperson: Dr. N. Mackay
Assessment: Major assignment, presentations and participation

The general aim of the subject is to introduce a variety of settings in which psychology is practised, and look at ourselves in practice: what is it that we do in particular settings and why; what is it that guides our interventions?

Students will collect and present material from various settings, especially those in which they are working or on placement, looking at major features of psychological practice:

- the client characteristics (what are the typical problems brought by the clients to the psychologist in that particular setting, what are the anxieties, their aetiology and peculiar difficulties);

- the clinical psychologist's characteristics (appropriate training, personal qualities and skills, problems, relationships with other personnel on the field);

- the aims and expectations of parties involved (what does the client, the client's parents or family, involved agencies, the law, medics and the psychologist want from the process);
the setting characteristics (what is the appropriate physical and social setting for the practice, what is done in that practice).

The major assignment will be (1) to present examples of a selected psychological practice (where possible in the form of a video-recording), (2) give a detailed history of the particular case(s) under consideration, and (3) give a theoretical and practical rationale for the practice.

There is no set text.

**PSYC912 INTERPERSONAL SKILLS FOR CLINICAL PSYCHOLOGISTS**

*Double session; 8 credit points (52 hours)*

*Chairperson: Assoc. Prof. L.L. Viney*

This subject will require the personal involvement of students meeting regularly in a group with the aim of facilitating their work as applied psychologists through exploration of their personal capacities. The group will serve as a "laboratory" for personal and interpersonal "experiments" through such means as dyad and triad exercises, group work, meditation, fantasy, painting, dream work, and encounters, and psychodrama will be encouraged. Students will be invited to experience changes in themselves (as we expect our clients to do), achieve personal learning and integration, come to "use" themselves as effectively as possible and develop insight, as well as creativity and innovativeness. Which particular means will be used to achieve this expanded sense of personal and professional responsibility and better interpersonal skills will be decided, naturally, only when the students have entered the programme.

**PSYC913 ASSESSMENT FOR CLINICAL PSYCHOLOGISTS**

*Double session; 8 credit points (52 hours)*

*Chairperson: Dr. S. Srinivasan*

*Assessment: Assignments and examination*

This course assumes that students have a knowledge of the theory of psychological testing and measurement. Competence in the areas included in PSYC346 Assessment and Intervention in Psychology I (or its equivalent) is a course pre-requisite.

The aim of the course is to develop skill in the choice, administration, interpretation and reporting of psychological assessment techniques. There will be an emphasis on work shops, including peer and video feedback regarding assessment skills.

The specific objectives of the course are that participants demonstrate:

1. an understanding of the ethical issues associated with clinical psychological assessment;
2. an understanding of the principles of test construction and of criteria for evaluating assessment techniques;
3. competence in conducting assessment interviews;
4. competence in writing assessment reports;
5. mastery of the procedures for administering, scoring and interpreting the following tests: (a) WAIS-R, WISC-R (b) M.M.P.I. (c) Projective tests;
6. knowledge of the purposes, administration procedures and criteria for interpretation of a number of additional cognitive, personality and behavioural assessment techniques; and
7. the ability to choose assessment procedures appropriate to particular cases.

Reference lists will be distributed during the course. There will be considerable use of test manuals and accompanying texts.

**PSYC914 RESEARCH SKILLS FOR CLINICAL PSYCHOLOGISTS**

*Double session; 6 credit points (40 hours)*

*Chairperson: Linda L. Viney*

*Assessment: Seminar presentations*

The aim of this subject is to prepare students for the research involved in their Clinical Project. The part of this presentation shared by all students consists of a 2 hour seminar in which the participants review the current research
literature in Clinical Psychology by topics and by methods. They also present their own proposals for research. The other part of this preparation differs according to the needs of the students. They will develop their research tools, through seminars with Assoc. Prof. Viney and other departmental staff members on research design, computing and analyses of quantitative and qualitative data.

PSYC923 CLINICAL PSYCHOLOGY

First session; 8 credit points (52 hours)
Chairperson: Dr. J. deWet
Assessment: Practical and written examinations

During the introduction and orientation phase various theoretical, methodological and philosophical issues will be examined. The major component of the course consists of systematic examination of adult psychopathology. The mental disorders will be discussed with reference to clinical picture and diagnosis, aetiology, therapeutic approaches, methods of intervention and case management.

Additional topics include problems associated with special populations (the aged, physically and mentally handicapped) and clinical psychology and the law. A refresher course in human genetics will be provided. There will be the opportunity to review systems of psychotherapy.

Textbooks

There is no set text but all students are advised to purchase:

The diagnostic and statistical manual of mental disorders (3rd ed.Revised)

REFERENCES

A comprehensive list of references will be provided at the start of the course.

PSYC924 ORGANIZATIONAL PSYCHOLOGY

Single session; 52 hours of lectures, seminars and practical work, 8 credit points.
Assessment: Practical work and assignments and/or written examination.

The major elements of this subject are the areas in which a psychologist practicing in industry as a consultant or working in personnel management may be involved. Topics to be dealt with may include action research and organizational development, communication within organizations, job satisfaction and employee motivation, demoralization and worker participation in management, problems of personnel selection and training and the role of the psychologist in industrial relations. A textbook and other readings will be recommended.

PSYC925 CHILD CLINICAL PSYCHOLOGY

Second session: 8 credit points (4 class hours per week for 1 session)
Chairperson: Mr. J. Wragg
Assessment: Seminar presentations, assignments and/or examination.

This subject will focus on a range of assessment and treatment strategies in relation to child and adolescent psychopathology. Specific topics will be addressed in order to develop an understanding of aetiology, assessment and treatment approaches relevant to child and family problems.

These topics will include:

- conduct disorders and oppositional disorders.
- attention deficit disorders and hyperactivity.
- delinquency.
- grief and separation.
- learning disabilities.
- anxiety and depression.

Treatment approaches employing behaviour modification, cognitive therapies, art and play therapy, social skills training groupwork and individual therapy, parenting courses and family work will be examined. In addition the
course will focus on understanding the implications of a range of handicapping disabilities and childhood illnesses. Ethical and professional issues concerned with treating minors will also be examined.

No set text.

**PSYC927 CLINICAL RESEARCH METHODS**

*Double session; 8 credit points (52 hours of lectures and seminars)*

*Chairperson for Subject:* Linda L. Viney

*Assessment:* Assignments to be determined

The candidate shall pursue course work, approved by the Departmental Head, the nature of which will take the form of preparation for completion of the doctoral thesis (for the degree of Doctor of Philosophy (Clinical Psychology)). The subjects may include topics such as:

- Research design
- Advanced statistics
- Computing
- The study of experience
- Behavioural medicine
- Biofeedback research
- Research in developmental psychology
- Research in health psychology
- Information processing

**PSYC928 CLINICAL NEUROPSYCHOLOGY**

*Double session; 8 credit points (52 hours)*

*Chairperson:* Dr. S. Srinivasan

*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, with an emphasis on Luria’s theory of functional systems.

3. The causes of brain dysfunction.
4. Approaches to neuropsychological assessment.
5. The use of neuropsychological tests.
7. Treatment and rehabilitation of the brain damaged.

**Textbooks**


**PSYC929 PSYCHOTHERAPY WITH INDIVIDUALS AND GROUPS**

*Double session; 8 credit points (52 hours)*

*Chairpersons:* Assoc.Prof. Linda Viney, Dr. Nigel Mackay

*Assessment:* Seminar papers, case work.

The aim is to provide students with both an integrated theoretical and practical grounding in psychotherapy. The course offers a specialised training in one of a restricted number of psychotherapies with individuals or groups. The kinds of specializations available will vary from year to year, depending on staff availability. However, the choices open to students will normally include a major therapy from each of the cognitive-behavioural, psychoanalytic, and family approaches.

The subject consists of clinical reading and seminars in the selected areas, and supervision of work (therapeutic programmes, therapy cases etc) which students will be required to undertake. Where it is appropriate to the selected approach, there will also be workshop demonstrations of technique, or other exercises.

**PSYC937 PRACTICUM 1**

*Double or single sessions; 6 credit points (field work plus 30 hours of university-based case conference)*

*Chairperson:* Dr. J. deWet

*Assessment:* Reports by field supervisors and university consultants; field notebooks and case presentations.

In addition to discussions of the problems associated with diagnosis, therapy and
case management encountered in the field, attention will be devoted to clinical history taking and formulation of child, adolescent, adult and elderly cases.

**PSYC038 PRACTICUM 2**

*Double or single sessions; 6 credit points (field work plus 30 hours of university based case conference)*

Chairperson: Mr J. Wragg
Assessment: As for PSYC937

This practicum extends the work of PSYC937.

**PSYC939 OTHER PRACTICUM WORK**

*Single session; 26 hours of seminars; 6 credit points*

Assessment: Seminar (case conference) presentations, field notebooks and assessment by university and field supervisors.

An extra amount of supervised practicum experience is to be selected by students or recommended by staff.

**PSYC940 EXTENDED PRACTICUM: CLINICAL PSYCHOLOGY**

*Double session; 24 credit points (field work, plus 52 hours seminars)*

Chairperson for Subject: Associate Professor Linda L. Viney
Assessment: Reports by field supervisors and university consultants. Field notebooks. Seminar (case conference) presentations.

This full year practicum subject is available only to students who have completed part or all of their graduate training in clinical psychology, at the discretion of the Departmental Head. They should be concurrently employed in the practice of clinical psychology or a closely related discipline. This subject gives students the opportunity to gain supervised professional experience, either as part of the M.A. degree or as miscellaneous students.

**PSYC952 PSYCHOLOGY HONOURS THEORY SEMINAR**

*First session; 8 credit points*
Chairperson for Subject: Dr. D.L. Mixon

The Honours Theory Seminar, which is available as a separate subject to candidates for the Master of Studies, the M.A. and Dip.Gen.Psyc. only, will examine the relationship between theory and method in psychology with a view to developing critical as well as synthesizing skills. Topics may include: What are data? What is theory? The relationship between psychology and other disciplines. The socio-political context of theory and practice. Ethical issues.

The assessment of the Psychology Honours Seminar will be based on the quality of assignments.

**PSYC953 HEALTH PSYCHOLOGY**

*Second session; 8 credit points (two contact hours; lecture/seminar)*
Chairperson: Dr. G. Huon
Assessment: Essay, seminar, research proposal and exam

This course 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, to parallel contrasts between, for example, body and mind, biological and psychological or social explanations of behaviour, pharmacological and surgical interventions, or psychological and social treatments. Specifically medical topics to be considered relate to the control of intractable pain, patient education for diabetes, rehabilitation after trauma and following cerebrovascular insults. Other topics include the applications of psychological principles to the development, and implementation of preventative programmes aimed at a 'healthy lifestyle', such as those for stress, exercise, weight control, smoking, and drug and alcohol related problems. Since the delivery of any effective service or programme presupposes that personal and social systems interact in health care, current theories about biological, psychological, social and cultural
human capabilities and limitations when the Homosapien is treated as an information-processing system. It will be achieved by following the fate of incoming information through its various stages of transformation. The structural properties as well as controlled processes involved at each of these stages will be illustrated with selected topics in Attention, Perception, Memory, Language and Reasoning. Practical applications will also be considered.

Textbook
No set text.

PSYC955 PSYCHOLOGY OF INFORMATION PROCESSING
Single session; 8 credit points (2 hours lectures, 2 hours laboratories)
Chairperson for Subject: Professor W.J. Lovegrove
Assessment: Laboratory work and assignment and/or examination.

The objective of this course is to investigate what can be learned about
The purpose of the course is to provide the experience of applying the theory and research techniques of child and lifespan development psychology to practical problems in the social and educational spheres. Interventions in those spheres reveal, through the way problems are defined and the prescriptions for their solution, a variety of models of helping and coping which are in turn based on different theories of development. The models of helping and coping which are the foundations of those interventions will provide the broad framework for the course and for the design of the research projects which will be the major requirement. Students will be introduced to the theoretical bases of empirical research, to the range of experimental paradigms and research designs, and methods of observation and recording data.

Textbook

No set text.

PSYC960 BIOFEEDBACK

Single session; 8 credit points (2 hrs lecture/seminar/laboratory)
Chairperson for Subject: Dr. S. Ginsberg
Assessment: Essay and within-session assignments

This subject provides a detailed examination of theory and research as well as application of the control of physiological activity by means of biofeedback techniques. Laboratories will provide demonstrations of certain of the matters considered in the lecture/seminars.

Textbook

Journal articles will be assigned in addition to or instead of a set text.

PSYC961 TOPICS IN DATA ANALYSIS

Double session; 8 credit points (26 hrs of seminars)
Convenor: Dr. D. Brown
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 the statistical package SPSSX and to perform some analyses using SPSSX. Students will also be encouraged to discuss problems in data analysis arising from their own research projects. A reading list will be provided.

**PSYC962 SELECTED TOPICS IN CONDITIONING AND LEARNING**

*Single session; 8 credit points (2 hrs lecture/seminar per week)*

**Convenor:** Dr. S. Ginsberg

**Assessment:** Within session assignments

This subject provides an in-depth examination of certain of the topics (different topics in different years) introduced at a more basic level in PSYC243 Learning and Memory.

**Textbook**

Journal articles will be assigned in lieu of a set text.

**PSYC963 RESEARCH PROJECT**

*Double session; 8 credit points*

**Convenor:** Dr. D. Mixon

This subject involves the completion of a single empirical study.

**PSYC964 INTRODUCTION TO APPLIED SKILLS IN PSYCHOLOGY**

*First session: 8 credit points (2 lectures/practical seminars per week)*

**Convenor:** Dr Peter Smith

**Assessment:** Written and practical seminar assignments submitted during the session (100%).

Psychology graduates are expected to hold a breadth of 'people' skills. Typically, employers express these expectations as an ability to evaluate, report and intervene constructively in a work context with either individuals or groups. The course, drawing on the fields of clinical and occupational psychology, will study the processes which underlie individual and group work. It will use a practical-workshop teaching format, i.e., dyad, triad and group practice; role plays; observation; skills practice and feedback; direct instruction; discussion.

**Textbooks**


**PSYC989 RESEARCH PROJECT**

*24 credit points*

All applied psychologists should know how to answer psychological questions by recourse to raw data. All students entering the M.A. in Applied Psychology program with a pass degree or without the major empirical project of the Honours year, therefore, will be required to design and carry out a small research project under supervision. This research will be in the general field of applied psychology and normally in one of the students' areas of specialization. Students will show that they are able to:

1. define their problem,

2. devise a method by which to collect data relevant to it,

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.

**PSYC999 MAJOR THESIS**

48 credit points

For students who have an appropriate honours degree in Psychology. Refer to Department for details.

NOTE: Provision exists for students who do not have an honours degree to complete a Master of Arts by Coursework and Major Thesis (a total of 96 credit points) as provided under section 6(2) of the Masters Degree Requirements.
SCIENCE AND TECHNOLOGY STUDIES

INTRODUCTION

The following postgraduate degrees and diplomas are available:

1. Graduate Diploma in Arts
2. (a) Honours Master of Arts by Research or Coursework
   (b) (Technology and Social Change) by Coursework
   (c) (History, Philosophy and Politics of Science)
3. Doctor of Philosophy

For the Graduate Diploma, subjects are selected from the undergraduate schedules of subjects set out in Volume II of the Calendar. Please refer to the information about this diploma on the following pages.

The schedule of subjects available for Honours Master degrees are set out below.

For the Doctor of Philosophy degree candidates enrol in the subject STS999 Thesis.

The specific requirements for each degree and diploma and the descriptions of the subjects available are set out in the pages following the schedule of subjects.

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:

Science, technology and public policy.
Political sociology of scientific knowledge.
The social and economic context of technological change.
Technology policy and industrial performance.
Contemporary analytical philosophy of science.
The politics of medicine and health.
Women and science.
Evolutionary theory in the nineteenth century.
Scientific controversy and the sociology of knowledge.
History, Philosophy and Sociology of 19th Century and 20th Century genetics.
The impact of genetics in agriculture and medicine.
Mendel and discovery theory.
The social impact and politics of information and communications technology.
Politics of nuclear power.
Social impact of energy intensive technology.
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'.
Philosophy of technology.
Work, automation and employment.
CAD/CAM and Australian manufacture.
Artificial intelligence and social control.
Thirteenth Century Science.

SCHEDULE OF GRADUATE SUBJECTS

HONOURS MASTER OF ARTS

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<td>Theories and Methods of Science and Technology Studies</td>
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<tr>
<td>STS902</td>
<td>Advanced topics in Science and Technology Studies</td>
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<tr>
<td>STS903</td>
<td>Minor Thesis</td>
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<tr>
<td>STS904</td>
<td>Science, Technology and Society in Antiquity and the Middle Ages</td>
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HONOURS MASTER OF ARTS (Cont'd)

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<tr>
<td>STS906</td>
<td>The Social History of Evolutionary Biology</td>
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</tr>
<tr>
<td>STS908</td>
<td>The Social History of Medicine and Health Care</td>
<td>12</td>
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<tr>
<td>STS999</td>
<td>Major Thesis</td>
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Program 2

| STS921 | The Dynamics of Science and Technology A: The Social Shaping of Technology | 12 |
| STS922 | The Dynamics of Science and Technology B: The Politics of Technological Change | 12 |
| STS923 | Technology and the State | 12 |
| STS924 | Minor Thesis | 24 |
| STS931 | Risk Assessment, Health and Safety | 12 |
| STS932 | The Organisation of Technological Change | 12 |
| STS933 | Energy and Technological Development | 12 |
| STS934 | Genetics and Technological Innovation | 12 |
| STS935 | The Impact of Computers and Communications Technology | 12 |
| STS936 | The Technology of Medicine and Health | 12 |
| STS937 | The Management of Technology | 6 |
| STS938 | Science, Technics and Technology | 12 |
| STS939 | Technology and War | 12 |
| STS940 | Theories of Science, Technology and Society | 12 |
| STS941 | The Organisation of Modern Science | 12 |
| STS942 | Women and Technology | 12 |
| STS951 | Research Report | 12 |

COURSE DESCRIPTIONS

1. 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 University Regulations 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 candidature for the Graduate Diploma is on the
recommendation of the Head of the Department of Science and Technology Studies.

2. HONOURS MASTER OF ARTS

The Department of Science and Technology Studies offers three separate Honours Masters programs by coursework. The first (Program 1) is open to students with a background in Science and Technology Studies who wish to pursue their studies at a higher level. The remaining two programs are designed primarily for students with less or no background in STS. Program 2 (the MA in the area of Technology and Social Change) focuses on the new area of the study of technology in its socio-economic and political context. Program 3 (the MA in the area of History, Philosophy and Politics of Science) centres on the nature and dynamics of science studied from historical, philosophical, sociological and political perspectives.

PROGRAM 1

(a) 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.

Structure

Students entering the program with a degree in Science and Technology Studies or a degree in another appropriate discipline at a standard below Honours Class II, Division 2 (Category A) 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 (Category B) will be required to complete subjects with a minimum value of 48 credit points.

Category A

Students are required to take their first 48 credit points from subjects offered in Programs 2 and 3 selected as approved by the Head of the Department.

Category B

Category B students and Category A students who have successfully completed the first 48 credit points of the program will select their subjects from the following:

- STS901 Theory and Methods of Science and Technology Studies
- STS902 Advanced Topics in Science and Technology Studies
- STS903 Minor Thesis
- STS951 Research Report
- STS999 Major Thesis

Interdisciplinary Seminar

All students 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 Sessions 1 and 2.

PROGRAM 2

(b) Honours Master of Arts
(Technology and Social Change)

This program offers a coherent set of courses in the new area of technology in its socio-economic and political context.

Technology plays a central and crucial role in our society. Its social and economic implications are becoming increasingly important and contentious issues. These postgraduate courses are 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 technology and its social, economic and political dimensions in modern industrial society.

The degree of Honours Master of Arts in the area of technology and social change 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 technology.

Structure

Students entering the program with a degree in Science and Technology Studies or a degree in another appropriate discipline at a standard below Honours Class II, Division 2 (Category A) will be required to complete subjects with a minimum value of 96 credit points. Those with an Honours degree in Science and Technology Studies or its equivalent at a standard above Class II, Division 2 (Category B) will be required to complete subjects with a minimum value of 48 credit points.

Category A students are required to take the following subjects:

- STS921 The Dynamics of Technological Change A: The Social Shaping of Technology
- STS922 The Dynamics of Technological Change B: The Politics of Technological Change
- STS923 Technology and the State

and either

- STS924 Minor Thesis
- STS951 Research Report

and to select from the following subjects to make up the total of 96 credit points:

- STS931 Risk Assessment
- STS932 The Organisation of Technological Change
- STS933 Energy and Technological Development
- STS934 Genetics and Technological Innovation
- STS935 The Impact of Computers and Communications Technology
- STS936 The Technology of Medicine and Health
- STS937 The Management of Technology
- STS938 Science, Technics and Technology
- STS939 Technology and War
- STS940 Theories of Science, Technology and Society
- STS941 The Organisation of Modern Science
- STS942 Women and Technology
- STS951 Research Report

24 credit points must be taken from:

- STS921 The Dynamics of Technological Change A: The Social Shaping of Technology
- STS922 The Dynamics of Technological Change B: The Politics of Technological Change
- STS941 The Organisation of Modern Science
- STS942 Women and Technology
- STS940 Theories of Science, Technology and Society

Category B students are required to take 48 credit points from the following subjects:

- STS921 A Historical Introduction to Technology
- STS922 The Politics of Technological Change
- STS923 Technology and the State
- STS931 Risk Assessment, Health and Safety
- STS932 The Organisation of Technological Change
- STS933 Energy and Technological Development
- STS934 Genetics and Technological Innovation
- STS935 The Impact of Computers and Communications Technology
- STS936 The Technology of Medicine and Health
- STS937 The Management of Technology
- STS938 Science, Technics and Technology
- STS939 Technology and War
- STS940 Theories of Science, Technology and Society
- STS941 The Organisation of Modern Science
- STS942 Women and Technology
- STS951 Research Report

Interdisciplinary Seminar

All students 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 Session 1 and 2.
Assessment
Continuous Assessment by written assignments and seminar dissertations.

Entry to Course
Will be dependent upon approval by the Head of Department.

Program Determination
Students wishing to enrol for this program must have their proposed course of study approved by the Head of the Department.

PROGRAM 3
(c) History, Philosophy and Politics of Science

This program offers a coherent set of courses focussing upon the nature and dynamics of science studied from historical, philosophical, sociological and political perspectives.

Structure
Students entering the program with a degree in Science and Technology Studies or a degree in another appropriate discipline at a standard below Honours Class II, Division 2 (Category A) 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 Class II, Division 2 or higher (Category B) will be required to complete subjects with a minimum value of 48 credit points.

Category A
Students are required to select from the following subjects to make up the total of 96 credit points, including STS905 and STS906 and either STS903 or STS999; and taking no more than 24 credit points from STS936, STS940 and STS942.

Category B
Students are required to select from the following subjects to make up the total of 48 credit points, including either STS903 or STS999; and taking no more than 12 credit points from STS936, STS940, STS941 and STS942.

STS902 Advanced Topics in Science and Technology Studies
STS903 Minor Thesis
STS904 Science, Technology and Society in Antiquity and the Middle Ages
STS905 Science, Technology and Society in Early Modern Europe 1500-1750
STS906 The Social History of Evolutionary Biology
STS908 The Social History of Medicine and Health Care
STS934 Genetics and Technological Innovation
STS936 Technology of Medicine and Health
STS940 Theories of Science, Technology and Society
STS941 The Organisation of Modern Science
STS942 Women and Technology
STS999 Major Thesis

Interdisciplinary Seminar
All students 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 Sessions 1 & 2.

Assessment
Continuous assessment by written assignments and seminar dissertations.

Entry to Course
Will be dependent upon approval by the Head of Department.

Program Determination
Students wishing to enrol for this program must have their proposed course of study approved by the Head of Department.

SUBJECT DESCRIPTIONS

STS901 THEORIES AND METHODS OF SCIENCE AND TECHNOLOGY STUDIES

12 credit points (contact hours per week: 3 hrs seminars)
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

12 credit points (contact hours per week: 3 hrs seminars)
Assessment: Essays and Seminar papers.

Students will study topics appropriate to their field of special interest, subject to the approval of the Head of the Department.

STS903 MINOR THESIS

24 credit points (contact hrs per week: 4 hrs)
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.

STS904 SCIENCE, TECHNOLOGY AND SOCIETY IN ANTIQUITY AND THE MIDDLE AGES

Single Session; 12 credit points (3 contact hours per week)

This subject concentrates on social aspects of the history of science and technology in classical antiquity and the late Middle Ages, and upon the analysis of existing interpretive perspectives in the historical literature. Topics will include: conditions of the rise of Greek natural philosophy and its relation to myth; socio-political resonances of Greek natural philosophies; interpretations of the 'decline' of ancient science; the nature of ancient technology and its social role, including its relation to natural philosophy; the rise of the European universities and the construction of Scholastic Aristotelianism; Medieval contributions to mechanics, optics and astronomy and their limitations; interpretations of Medieval science; printing and the problem of the 'Renaissance' in the sciences and natural philosophy.

For schedule entry see Attachment. The Statement of Resource Implications is also attached.

STS905 SCIENCE, TECHNOLOGY AND SOCIETY IN EARLY MODERN EUROPE 1500-1750

Single Session; 12 credit points (3 contact hours per week)

This subject concentrates on social aspects of the history of science and technology in the period of the Scientific Revolution and Early Enlightenment. It also focusses upon interpretive perspectives in the historical literature and their political and normative resonances. Topics will include: social and economic factors in changing images of nature; the decline of Scholasticism and the re-evaluation of technology and practice; the rise of the cult of method and the mechanistic world-view; the social construction of experimental natural philosophy; the crisis of the 17th century and the Scientific Revolution; Marxist, idealist and constructivist approaches to the Scientific Revolution; science, religion and politics during the English Revolution, Commonwealth and Restoration; changing perspectives in Newton scholarship.

STS906 THE SOCIAL HISTORY OF EVOLUTIONARY BIOLOGY

Single Session; 12 credit points (3 contact hours per week)

An examination of the social history of evolutionary biology, based primarily on recent contextual historiography. Emphasis will be placed on the micro-politics and sociology of the scientific community and scientific institutions, as well as on the larger socio-economic, political and intellectual contexts which have shaped evolutionary biology and its practice.

For schedule entry see Attachments. The Statement of Resource Implications is also attached.
STS908 THE SOCIAL HISTORY OF MEDICINE AND HEALTH CARE

Single Session; 12 credit points (3 contact hours per week)

An analysis of the interrelationship of the state, professional groups and knowledge claims in the development of modern medicine.

For schedule entry see Attachments. The Statement of Resource Implications is also attached.

STS921 THE DYNAMICS OF SCIENCE AND TECHNOLOGY A: THE SOCIAL SHAPING OF TECHNOLOGY

Single Session: 12 credit points (3 contact hours per week)

This course introduces students to the analytical tools necessary for critical assessment of scientific and technological change. Students are exposed to a variety of perspectives and approaches to contemporary technology and its social implications. Topics include the nature of science and technology, the relationship between technology and society, the control of technology and the way technology can be shaped by economic, political and social considerations.

Textbooks


STS922 THE DYNAMICS OF SCIENCE AND TECHNOLOGY B: THE POLITICS OF TECHNOLOGICAL CHANGE

Single Session: 12 credit points (3 contact hours per week)

This course continues the introduction of students to analytical tools necessary for the critical assessment of scientific and technological change in its social context. Particular emphasis will be paid to the relationship between the micro-politics of technological change and the emerging macroscopic political and economic structure of the contemporary social order.

Textbooks

A book of readings supplied by the Department.


STS923 TECHNOLOGY AND THE STATE

Single Session subject; 12 credit points (2 lectures, 1 tutorial, 1 seminar per week)

Further development of analytic methods for the assessment of the impact of contemporary technological developments and analysis of problems associated with the construction and development of different socio-technical options.

STS924 MINOR THESIS

24 credit points (contact hours per week: 4 hours)

A thesis embodying the results of an original investigation of a problem approved by the Head of the Department under the supervision of a staff member.

STS931 RISK ASSESSMENT, HEALTH AND SAFETY

Single Session subject; 12 credit points (contact hours per week: 3 hours)

This 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: e.g. herbicides, asbestos, radiation, fuel additives.
STS932 THE ORGANISATION OF TECHNOLOGICAL CHANGE

Single Session subject; 12 credit points (contact hours per week: 3 hours)

An examination of the social, economic and political factors which constrain the development and use of different energy technologies, and the limits that these place on other socio-technical choices.

STS934 GENETICS AND TECHNOLOGICAL INNOVATION

Single Session subject; 12 credit points (contact hours per week: 3 hours)

This subject examines the emergence, development and impact of molecular biology and genetic engineering on the life sciences in their social context. Issues to be addressed may include: the roles of Avery, Chargaff and Pauling prior to the development by Watson and Crick of their model of DNA; the part played by Wilkins and Franklin in the work leading up to the double helix; the acceptance of the Watson-Crick structure; the function of Crick's 'Central Dogma of Molecular Biology' in guiding subsequent work; the elucidation of the genetic code; the development of recombinant DNA techniques; Asilomar and safety of recombinant DNA; molecular biology versus genetic engineering; controversy over release of recombinant organisms; biotechnology in Australia.

Textbooks

Nossal, G.J.V. Reshaping Life, Melbourne University Press.

STS935 THE IMPACT OF COMPUTERS AND COMMUNICATIONS TECHNOLOGY

Single Session subject; 12 credit points (contact hours per week: 3 hours)

This subject concentrates on the issues that technological, regulatory and political developments have created in modern computer and telecommunications technology. Topics covered include: the role of telecommunications in the social transformation described as the Information Society; the developing commerce in electronic information; telecommunications as a technology of information control; national and international dimensions of telecommunications policy and conflict; prospects for democratic communications; telecommunications and political power, development and dependency.

Students will be expected to interpret technical, regulatory and political developments in telecommunications, revealing the background and underlying motivations of the parties involved. They should also be capable of assessing the various strategies adopted by different countries towards their telecommunications and to be able to identify their strengths and weaknesses.

STS936 THE TECHNOLOGY OF MEDICINE AND HEALTH

Single Session subject; 12 credit points (contact hours per week: 3 hours)

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.

STS937 THE MANAGEMENT OF TECHNOLOGY

Single Session subject; 12 credit points (contact hours per week: 3 hours)

The nature and process of technological innovation; strategies for research and development; technological forecasting; project selection and evaluation; financial evaluation of R & D; R & D programme planning and control; the effects of technological change; government incentives and regulations.

Textbooks

Norris, K. & Vaizey, J. The Economics of Research and Technology.
Twiss, B., Managing Technological Innovation.

(This subject is available only to Master of Management students).
STS938 SCIENCE, TECHNICS AND TECHNOLOGY

Single session; 12 credit points (3 contact hours per week)

An introduction to major theories and philosophies concerned with technology and progress. Debates surrounding the role of scientists and the ideological role of technology in society, past interpretations of the nature of technology and progress, and the recent development of 'alternative technology' and 'limits to growth' theories are examined. Analysis of the links between technology and freedom, and technology and alienation, is central to this course.

Textbooks

STS939 TECHNOLOGY AND WAR

Single session; 12 credit points (3 contact hours per week)

An analysis of the changing character of war and peace in relation to technological change. The history of military technology; the relationships between scientists, the military, the state and corporations; the arms race, balances of power, developments in biochemical warfare, nuclear weapons and nuclear war; and theories of conflict resolution and strategies for peace are examined.

Textbooks
No single suitable text.

STS940 THEORIES OF SCIENCE TECHNOLOGY AND SOCIETY: 1850 TO THE PRESENT

Single session; 12 credit points (4 contact hours per week)

Since the rise of 19th Century Positivism theories of scientific method and social theories have been closely intertwined, and both sorts of theory have had political implications. The subject surveys the debates over the nature of science from nineteenth century Positivism to the present, focussing upon the ways these debates have reflected opposing political philosophies and social theories.

Topics will include: Classical Positivism as ideology and as methodology; Logical Positivism and the defence of the social authority of science; methodology and ideology in the work of Karl Popper; Thomas Kuhn, Feyerabend and the demise of Positivist methodology; the new scientific realism and the debate about Marx's method; Althusser's critique of empiricism; the Frankfurt School.

Textbooks

STS941 THE ORGANISATION OF MODERN SCIENCE

Single session; 12 credit points (3 contact hours per week)

This subject will examine the development, organisation and influence of science over the past fifty years. The focus will be comparative and contemporary but with a strong emphasis on both historical and policy dimensions. It will examine the changing patterns of organisation at different times and places, and the arguments about the place and influence of science which led to the changes. Issues addressed include the kinds of scientific research conducted, its objectives, its organisational structures; and its financing and management in a range of countries, selected from USA, USSR, Western Europe, Japan, China, Australia and the third world.
Textbooks


**STS942 WOMEN AND TECHNOLOGY**

*Single session; 12 credit (3 contact hours per week)*

An examination of technology in terms of its relation to women and women's work. Themes will include: the 'masculinity' of technology; the exclusion of women from technology; kitchen technology and the domestic revolution; reproductive technology; women and technology assessment; the impact of computers on 'women's work'.

Textbooks


**STS951 RESEARCH REPORT**

*Single session; 12 credit points (3 contact hours per week)*

A report providing a survey and analysis of arguments and data on the subject approved by the Head of the Department, under the supervision of a staff member.

**STS999 THESIS**

*48 credit points*
1. Master of Policy

The schedule of subjects available for the Masters degree is set out below.

The specific requirements for the degree and the description of the subjects available are set out in the pages following the schedule of subjects.

SCHEDULE OF GRADUATE SUBJECTS

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<tr>
<th>Number</th>
<th>Subject</th>
<th>Credit Points</th>
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<td>Case Studies in Social Policy</td>
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<tr>
<td>SPS902</td>
<td>Social Policy Research Project</td>
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<td>SPS903</td>
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<td>CMS903</td>
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<tr>
<td>ECON904</td>
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<td>ECON912</td>
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<td>ECON914</td>
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<td>ECON915</td>
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<td>ECON952</td>
<td>Economic Framework for Decision Making</td>
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<td>ECON953</td>
<td>Statistical Techniques for Decision Making</td>
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<tr>
<td>ECON954</td>
<td>Industrial Relations in Australia (not to count with ECON964)</td>
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<td>ECON964</td>
<td>Industrial Relations in Australia - A (Not to count with ECON954)</td>
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<tr>
<td>EDUC905</td>
<td>Women and Australian Education: Historical and Comparative Perspectives</td>
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<td>EDUC930</td>
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<td>GEOG904</td>
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<td>GEOG905</td>
<td>Social Geography</td>
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<td>GEOG907</td>
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<td>Urban Analysis</td>
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<tr>
<td>GEOG910</td>
<td>Economic Geography</td>
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<tr>
<td>HIST901</td>
<td>Australian Economic History, 1850-1930</td>
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<td>HIST902</td>
<td>Australian Economic History, 1930-1985</td>
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<td>LAWF51</td>
<td>Taxation Policy and Practice</td>
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<td>LAWF53</td>
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<td>LAWF63</td>
<td>Jurisprudence</td>
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<td>LAWF64</td>
<td>Studies in Business Law</td>
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<td>LAWF65</td>
<td>Studies in Administrative Law</td>
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<td>LAWF66</td>
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<td>LAWF67</td>
<td>Studies in Trade Practices and Consumer Law</td>
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<td>LAWF87</td>
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<td>LAWF93</td>
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<td>MATH934</td>
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<td>MATH936</td>
<td>Multivariate Analysis</td>
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<td>PHIL901</td>
<td>Organisational Ethics</td>
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<tr>
<td>PHIL902</td>
<td>Ethical Analysis</td>
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<td>PHIL904</td>
<td>Directed Study in Applied Ethics</td>
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<td>POL914</td>
<td>Power and the Modern State</td>
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<tr>
<td>PSYC924</td>
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<td>PSYC953</td>
<td>Health Psychology</td>
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<td>PSYC954</td>
<td>Psychology and Woman</td>
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COURSE DESCRIPTION

1. MASTER OF POLICY

(1) The purpose of the Master of Policy is to allow pass graduates in the social sciences or with other approved areas of study or experience, to pursue policy-oriented studies concerned with social issues. The Masters Programme (M.Pol (Soc)) allows for a broadly based, flexible, interdisciplinary programme which qualifies graduates to operate more effectively in government, welfare bodies, trade unions or private industry. Students shall be admitted

under the regulations covering the Master of Studies Degree, with the additional qualifications covered below.

(2) Students are required to complete successfully an approved programme of study of 48 credit points drawn from the Schedule of Graduate Studies, which must include:

(a) SPS901 Case Studies in Social Policy;

(b) SPS902 Social Policy Research Project - the topic for which shall relate to the coherent area of substantive policy studies
approved by Council for each student;

(c) At least 24 credit points of subjects drawn from the Schedule of Graduate Subjects and approved by Council as comprising a coherent area of substantive policy studies - these may be policy areas such as health, welfare, employment, equal opportunity, etc., population groups such as women, the aged, youth, Aborigines, people with disabilities, migrants, etc., or methodologies such as experimental, evaluative, ethnographic, action research, etc. Students may advance their own combination of subjects with a rationale as to their coherence, for determination. Students shall not normally include subjects drawn all from the same Department.

(d) Where previous studies do not include courses in at least one appropriate social science methodology, the additional successful completion of such a subject may be required - e.g. SPS903 Methods in the Social Sciences, SOC933 Advanced Research Techniques.

(3) Students shall not include in their programme subjects substantially similar to those already completed as part of their previous undergraduate or graduate studies.

(4) Students shall discuss their proposed programme with an academic adviser prior to enrolment and shall be required to have the course of study approved by Council.

(5) In all cases students shall undertake any additional work required by Departments as a pre-requisite for subjects included in the Schedule of Graduate Subjects.

(6) The Master of Policy shall be available as a part-time and full-time programme. Full-time students are expected to complete the degree in two academic sessions, part-time students in not less than four and not more than six academic sessions.

SUBJECT DESCRIPTIONS

SPS901 CASE STUDIES IN SOCIAL POLICY

Session One or Two; 12 credit points (4 hours per week in two seminars/workshops)
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. Case studies will be presented by visiting specialists and members of academic staff. Students will develop case analyses based on these presentations. Topics may include welfare, health, employment and communications policies, programmes addressed to the needs of the aged, youth, the disabled and government strategies aimed at overcoming disadvantage experienced by Aborigines, immigrants or women. Where appropriate, comparative international perspectives will be used to explore the relationships between state forms and social policies.

SPS902 SOCIAL POLICY RESEARCH PROJECT

Session One or Two; 12 credit points; 2 hour seminar once a fortnight
Assessment: Research Report of 10,000 - 15,000 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 programme and approved by Council.
SPS903 METHODS IN THE SOCIAL SCIENCES

Session One or Two; 8 credit points; 3 hour lecture/seminar per week.
Assessment: Participation in seminars, 1 seminar paper, 1 method exercise, 1 essay or project.

The social sciences seek understandings of society through the application of research methods to social phenomena. The debate over the legitimacy and value of different methods and the outcomes they generate form the focus of this course. Practitioners from various disciplinary backgrounds provide students with demonstrations of how perspectives drawn from different disciplines have developed and can be applied. Students will develop skills in identifying methodologies and selecting appropriate approaches for specific problem resolution. Special attention will be given to the use of micro computers in the social sciences, through reviews of statistical, word processing and data base programmes.
SOCILOGY

INTRODUCTION

The following postgraduate degrees and diplomas are available.

1. Graduate Diploma in Arts
2. Master of Arts
3. Honours Master of Arts by Research
4. Doctor of Philosophy

For the Graduate Diploma, subjects are selected from the undergraduate schedules of subjects set out in Volume II of the Calendar. Please refer to the information about this diploma on the following pages.

The schedule of subjects available for Masters degrees are set out on the following pages.

For the Doctor of Philosophy degree and the Honours Master of Arts by Research degree candidates enrol in the subject SOC999 Thesis.

The specific requirements for each degree and diploma and the descriptions of the subjects available are set out in the pages following the schedule of subjects.

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:

Social Policy
Ethnic Relations
Political Economy of Migration
Urban Political Economy and Social Movements
Impact of Science and Technology in Developing Countries
Social Change in Papua New Guinea and Irian Jaya
Regional Development and the Role of the Steel Industry
Technology, Social Change and Social Relations of Production
Unemployment
Media and Australian Society
The Changing Role of the Military in Contemporary Society
Social and Cultural Aspects of the Environment Crisis
Sociology of the Sciences
Indian Religion and Society: The institutionalisation of charisma and religious movements
Myth, shamanism and the occult: the institutionalisation of cosmologies
Consciousness and Human Identity
Analyses of Culture
Psychoanalysis in Social Theory
Epistemology and the Sociology of Knowledge
Sociology of Organisations

SCHEDULE OF GRADUATE SUBJECTS

# NOTE:
A limited number of the following SOC900 level subjects will be offered in any one year. Intending students should consult the Department before enrolment.

MASTER OF ARTS

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<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
<tr>
<td>SOC910</td>
<td>Postgraduate Sociology Seminar (Session Offered - A)</td>
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<tr>
<td>SOC921</td>
<td>Special Topic in Sociological Studies - A</td>
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<tr>
<td>SOC922</td>
<td>Special Topic in Sociological Studies - B</td>
<td>8</td>
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<tr>
<td>SOC930</td>
<td>Advanced Contemporary Social and Political Thought</td>
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<tr>
<td>SOC933</td>
<td>Advanced Research Techniques (Session Offered - 1 or 2)</td>
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<tr>
<td>SOC938</td>
<td>Advanced Studies in the Sociology of Health and Illness</td>
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<tr>
<td>SOC939</td>
<td>Advanced Studies in the Sociology of Crime and Justice</td>
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MASTER OF ARTS (Cont’d)

<table>
<thead>
<tr>
<th>Number</th>
<th>Subject</th>
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<tbody>
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<td>SOC940</td>
<td>Advanced Social Policy Studies</td>
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<td>SOC941</td>
<td>Advanced Political Sociology</td>
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<td>SOC942</td>
<td>Advanced Race and Ethnic Studies</td>
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<tr>
<td>SOC943</td>
<td>Advanced Urban Sociology</td>
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<td>SOC944</td>
<td>Advanced Organisation Studies</td>
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HONOURS MASTER OF ARTS

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COURSE DESCRIPTIONS

1. 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. Courses available will allow students to focus their sociological coursework either towards vocational interests, e.g. community development, management of technological change, organisation and personnel, or towards a more general understanding of the social world. 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 University Regulations 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 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 recommendation of the Head of the Sociology Department who shall assess the applicant's aptitude for sustained sociological study at a reasonably advanced level.

2. 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. The program is designed particularly to capitalise on the Department's capabilities in areas of cultural and knowledge studies. Students are required to choose courses 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 should ensure that they discuss their overall program with the Head of the Department prior to enrolment, at which time the most appropriate program will be decided.

(3) Subjects will be offered depending on resources and demand; not all subjects will be offered in any one year or session.

(4) Students enrolled in courses, SOC921 through to SOC960 will need to gain CREDIT grade to pass the course.

SUBJECT DESCRIPTIONS

SOC910 POSTGRADUATE SOCIOLOGY SEMINAR

Annual: 8 credit points (2 contact hours; seminars)

Assessment: Seminar presentations of ongoing thesis and project work and general participation.

This program provides a core seminar in which all postgraduate students will normally be expected to participate. The subject matter will explore contemporary theoretical and methodological issues in sociology. The course will particularly provide a means of exploring at a general level, theoretical and methodological issues that are raised within the more specialised SOC900 courses.

Textbooks

To be advised.

SOC921 SPECIAL TOPIC IN SOCIOLOGICAL STUDIES - A

First session; 8 credit points; variable combination of individual supervision and seminars

Assessment: one essay of approximately 4,000 words plus tutorial assignments.

SOC922 SPECIAL TOPIC IN SOCIOLOGICAL STUDIES - B

Second 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 900 subject. This will be a reading course offered under the direct supervision of a member of staff. For details of topics offered, students should consult the Head of the Department.

SOC930 ADVANCED CONTEMPORARY SOCIAL AND POLITICAL THOUGHT

Session 1 or 2; 8 credit points (3 contact hrs; seminars)

Assessment: seminars, essay.

The course follows the trajectory of social thought during the 20th century, tracing the links between Marxism, positivism, phenomenology and psychoanalysis. The literature focuses on the basic epistemological assumptions in which social theory is grounded, and elucidates the social and political consequences of these bases. This analysis is made through the study of several key
substantive areas. The subject provides an opportunity to analyse the most recent theoretical developments as they appear in both local and overseas journals.

SOC933 ADVANCED RESEARCH TECHNIQUES

Session 1 or 2: 8 credit points (3 contact hours; 1 lecture; 1 'practical' seminar)
Assessment: 1 research project (5,000 words); continuous assessment of work set in 'practical' seminars.

This subject will explore the comparative validity of alternate techniques of research enquiry (with particular emphasis on the contrast of empirical vs. subjective forms of analysis). Students will gain experience in using traditional sociological tools of analysis - questionnaire, interviewing and formal observation, as well as in less conventional - film, video, participant and unobstructive techniques of observation and measurement.

SOC938 ADVANCED STUDIES IN THE SOCIOLOGY OF HEALTH AND ILLNESS

One session (either first or second); 8 credit points (3 contact hrs; 1 x 1 lecture, 1 x 2 hr seminar per week)
Assessment: 1 seminar paper; 1 essay/research project of up to 5,000 words.

The course draws on a wide range of sociological theories and a substantial body of sociological research as applied to health and illness. Functionalist, Symbolic Interactionist, Weberian, Marxist, Feminist and Foucauldian perspectives will be examined. The course is divided into two parts. The first half focusses on the illness experience and on interaction between health care consumers and providers. We will discuss Parson's sick role, the stigma of illness and disability, institutionalisation, and the social construction of 'diseases' such as infertility, AIDS and depression. In the second half it broadens out to examine macro-sociological issues, and in particular the economic and political context of health and health care. Topics include the division of labour in health care, inequalities in health, aboriginal health, women's health, prevention, and current health policy initiatives at federal, state and regional levels.

SOC939 ADVANCED STUDIES IN THE SOCIOLOGY OF CRIME AND JUSTICE

One session (either first or second); 8 credit points (3 contact hrs; 1 x 1 hr lecture, 1 x 2 hr seminar per week)
Assessment: 1 seminar paper; 1 essay/research project of up to 5,000 words.

Societal rules regarding what behaviour is to be deemed deviant have been a central concern of sociology and social anthropology. This course offers an examination of the social construction of deviance and its management. Opening with a review of the classic studies on crime, deviance and law enforcement, the course examines the many dimensions of crime and criminality, paying particular attention to contemporary capitalist societies. Among the issues to be examined are criminality, class, gender and ethnicity; 'organised' crime; police and policing; courts and prisons as institutions; 'white collar' crime; metropolitan and peripheral societies; and crime, justice and imperialism.

SOC940 ADVANCED SOCIAL POLICY STUDIES

Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture, 1 seminar per week)
Assessment: 1 essay, 2 seminar papers

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.
SOC941 ADVANCED POLITICAL SOCIOLOGY

Session 1 or 2; 8 credit points; lectures and seminars
Assessment: 2 seminar papers; long essay

The course will explore the social bases and contexts of political life. In particular it will examine processes of decision-making, the nature of political parties, processes of social change, and the bases of social and political mobilization in contemporary societies. The course will provide an opportunity to compare political processes in modern nation states, and will examine the relations between social base, political ideology and political action.

SOC942 ADVANCED RACE AND ETHNIC STUDIES

Session 1 or 2; 8 credit points (3 contact hrs; lecture/seminars)
Assessment: 2 seminars and long essay

The concepts of race and ethnicity are highly contentious within Sociology. Within an analysis of the Australian social experience of colonisation and immigration questions of race and ethnicity will be explored as explanatory frameworks in approaching inter-group relations. In particular, class will be tested against social phenomena which certain sociologists interpret within the dynamics of 'race', 'ethnicity' and 'gender' analysis.

SOC943 ADVANCED URBAN SOCIOLOGY

Second session; 8 credit points (3 contact hrs; 1 lecture/seminar per week)
Assessment: Original project work; 2 seminar papers

This subject will concentrate on an evaluation of the three levels of crisis in the sphere of collective consumption/reproduction: the crises of capitalism, the crisis of State intervention, and the crisis of State legitimacy.

The subject will focus on the emergence and histories of urban social movements, and their importance in developing an effective urban political economy. Case studies of Leeds, Paris, Sydney, San Francisco and Wollongong will be used to provide a comparative base.

SOC944 ADVANCED ORGANISATION STUDIES

Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture/1 seminar per week)
Assessment: 1 essay, 2 seminar papers

This subject uses work in the fields of psychology and sociology to study the relationship between the individual and the organisation at various organisational levels and in different situations. Emphasis is on the extent to which the individual has autonomy within the organisation.

SOC945 ADVANCED STUDIES IN THE SOCIOLOGY OF TECHNOLOGY AND INDUSTRIAL SOCIETY

Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture/1 seminar per week)
Assessment: 1 essay, 2 seminar papers

This subject examines the power of technological change to shape contemporary social functions, values, culture and institutions. Equally, the course will examine the social and cultural context for the shaping of scientific and technological innovation. The course will particularly explore sociological theories of industrial society and culture to identify the role of technology in contemporary society. It will examine the context of technology-social relations historically and cross-culturally, as well as through identifying the linkages between science and technology.

SOC950 ADVANCED STUDIES IN THE INDIVIDUAL IN SOCIETY

Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture, 1 seminar per week)
Assessment: 1 essay, 2 seminar papers

A comparison of different theories of society and their assumptions with regard to the nature of the individual implicit in such theories (and perhaps vice versa). Sociologically established positions such as those of Marx, Weber, Durkheim,
Comte, Parsons and Schutz (for example) will be contrasted with esoteric, "Occult", and non-western systems. The systems (universes) to be compared will depend to some extent on a balance between the interests of students and the course tutor.

**SOC951 ADVANCED STUDIES IN INTERACTION, SELF AND SOCIAL REPRODUCTION**

*Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture, 1 seminar per week)*  
*Assessment: 1 essay, 2 seminar papers*

This unit focuses on the social emergence and maintenance of self identity, levels of meaning in communication, elements of interaction in dyads and larger groups, the phases of group development. A major aim of the subject will be to sensitise students to the every-day processes whereby institutional practices and values of the wider society are legitimated and reinforced. Students are expected to participate in group projects and exercises as well as written work.

**SOC952 ADVANCED STUDIES IN PSYCHOANALYSIS AND CULTURE**

*Session 1 or 2; 8 credit points (3 contact hrs; lectures/seminars)*  
*Assessment: 2 seminar papers, 1 major essay and participation*

The unit begins with a general introduction to Freud's work differentiating the following aspects: a) basic psychodynamics, b) group psychology c) analysis of civilisation, and d) meta theory. It then considers some sociologically oriented revisions of psychoanalysis including the sexual radicals Reich and Marcuse, and structuralists such as Lacan, and the controversies which rage around them. On the basis of this preparation, several important problem areas in sociology are opened up, the emphasis here being on culture studies; sex/gender and the family as agent of social reproduction; the theory of the subject; politics and language.

**SOC953 ADVANCED STUDIES IN MASS COMMUNICATION**

*Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture, 1 seminar per week)*  
*Assessment: 2 seminar papers, 1 essay*

A study of the institutions, markets and content of mass communications, in particular the newspaper, television, radio and advertising industries. The sociological approach to this area studies the social and organisational context of the producers and consumers of the mass media, the social consequences of this consumption, as well as the content itself and how it relates to these variables. Methodology employed is based upon structuralism/semiotics, cultural anthropology, political economy, social history and empirical sociology.

**SOC954 ADVANCED STUDIES OF BELIEF SYSTEMS AND IDEOLOGIES**

*Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture, 1 seminar per week)*  
*Assessment: 1 essay, 2 seminar papers*

This subject examines the notion that in certain ideologies, the belief system and the experiential concomitants of the belief system are inseparable, even in principle. Studying such ideologies therefore necessitates the individual student participating at an intellectual and behavioural level in order to move towards a theoretical perspective which includes these two components.

**SOC955 ADVANCED STUDIES IN RELIGION AND SOCIETY**

*Session 1 or 2; 6 credit points (3 contact hrs; 1 lecture, 1 seminar per week)*  
*Assessment: 1 essay, 2 seminar papers*

Working within the theoretical framework of the sociology of religion, this subject is an historical and cross-cultural analysis of the relationship between religion and social stratification in Indian society. Particular emphasis will be placed on the conflicting roles of religion as an integrative (conservative) and divisive (revolutionary) force in a society which assumes inequality as the basis for order in society.
SOC956 ADVANCED STUDIES OF SOCIAL AND POLITICAL ANTHROPOLOGY OF THE THIRD WORLD

Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture, 1 seminar per week)
Assessment: 1 research project, 1 essay

The subject aims to acquaint students with the major theoretical writings on the "third-world" and its relations to the "first-world", including theories of imperialism and neo-colonialism, development and under-development. The subject focuses particularly on key economic and political concepts, and involves a discussion of technology and the varieties of recipient cultures in the "third-world". The major empirical focus will be on Papua New Guinea, Thailand and India.

SOC957 ADVANCED STUDIES IN THE SOCIOLOGY OF PEACE AND WAR

Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture, 1 seminar per week)
Assessment: 1 essay, 2 seminar papers, compulsory excursion to Royal Military College Duntroon.

Warfare continues to absorb a considerable portion of all government spending. Yet the military machine, its aims, functions, and interactions with the rest of society is only hazily understood. The focus is twofold: i) the development of modern military systems, and their real and projected employment, ii) the social reality of individuals within the military structure.

SOC958 ADVANCED STUDIES IN THE SOCIOLOGY OF NATURE AND HUMAN ENVIRONMENT

One session (either first or second); 8 credit points (Contact hours: 1 x 1 hr lecture, 1 x 2 hr seminar per week)
Assessment: 1 seminar paper; 1 essay/research project of up to 5,000 words.

This course challenges the idea that 'nature' and 'environment' are simply physical categories. Starting with the proposition that 'nature' is culturally and historically variable and generally human-centred, the course explores the various effects that human society has had on the planet in the context of contemporary sociological theory. The broad aim of the course is to show that different kinds of relationships with the land are possible and necessary if we are to avoid global catastrophe. Towards this end, the development and critical assessment of 'ecological' perspectives and strategies of resource management will be investigated. The course also involves a critical assessment of the nature and role of expertise in the development of knowledge, belief and legislation about the environment and its pollution, modification and general control.

SOC959 ADVANCED STUDIES IN GENDER IN SOCIETY

Second session; 8 credit points (3 contact hours; 1 lecture, 1 x 2 hr seminar per week)
Assessment: 2 seminar papers; 1 essay of 5000 words.

This subject takes as its focus the complex interaction between capitalism and patriarchy in the construction of gender relations. The subject begins with a discussion of the classic debate on the sociology of gender construction and the contemporary perspectives on the nature/nurture debate presented by sociobiology. The cultural and ideological reproduction of gender is explored through the insights offered by psychoanalytic accounts of masculinity, femininity and sexual practice.

The subject then concentrates on the operation of gender relations in society. The focus is the role of the state in the reproduction, reinforcement and redefinition of gender division. The particular experience and expression of gender relations in Australia will be examined in the cases of equal employment opportunity/affirmative action and social services, especially health and welfare.

SOC960 ADVANCED COMMUNITY RESEARCH

Session 1 or 2; 8 credit points (3 contact hrs; 1 lecture, 1 seminar per week)
Assessment: 1 seminar paper; 1 research project of up to 5,000 words

Pre-requisites: SOC231/331 and SOC232/332

This vocationally oriented course is designed to equip students with knowledge and experience required to carry out community research. The course involves the construction and execution of a research project with a community organisation in the Illawarra region. The research will be supervised by the course co-ordinator.

The research report will initially be presented as a work-in-progress seminar, and will meet the scholarly standards requisite of the sociological enterprise.

Textbook


SOC989 MINOR THESIS

Two sessions: 24 credit points
Assessment: 1 research thesis

SOC999 THESIS

48 credit points